

# Image-driven Isotropic BRDF Fitting

## GGX Microfacet BRDF Model

This supplemental material shows fits for the GGX Microfacet BRDF model for all 100 MERL materials obtained with

1. Cos. Weighted  $L^2$
2. Log-based
3. Image-driven (selection stage performed using CSSIM and *Eucalyptus Grove*)
4. Image-driven (selection stage performed using LPIPS and *Eucalyptus Grove*)

metrics as described in our paper. The materials are sorted by the LPIPS difference between the Log-based fit and the Image-driven fit chosen by LPIPS. For each fit, renderings are shown for the *Eucalyptus Grove*, *Uffizi Gallery*, *St. Peter's*, *Grace Cathedral*, and *Beach* light probes. The CSSIM and LPIPS errors for each rendering are given below each image. Note that the best fit for different light probes may vary even for a single material.

We use the model as given in “Microfacet Models for Refraction through Rough Surfaces” by Walter, Marschner, Li, and Torrance [WMLT07]. We add a traditional Lambertian diffuse component: the diffuse albedo is given in the tables below as  $D_r$ ,  $D_g$ , and  $D_b$ . The specular component is shown below.

$$\frac{S}{4} \frac{D \cdot G(i, h) \cdot G(o, h)}{(n \cdot i)(n \cdot o)} Fresnel$$

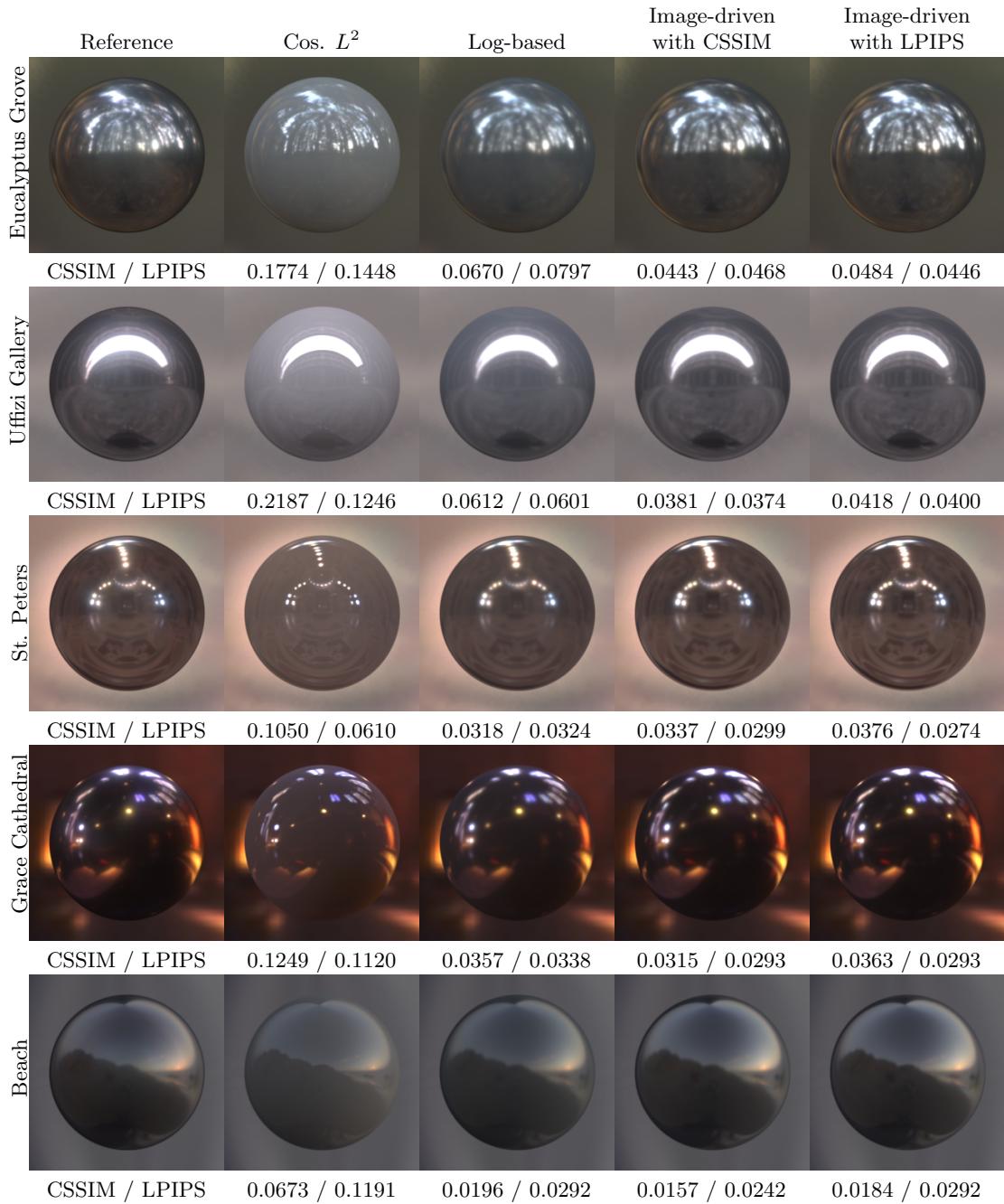
where  $G(v, h) = \max(\frac{(v \cdot h)}{(v \cdot n)}, 0) \cdot \frac{2}{1 + \sqrt{1 + \alpha^2 \tan^2(\theta_v)}}$ ,  $D = \frac{\alpha^2 \max((h \cdot n), 0)}{\pi \cos^4(\theta_h)(\alpha^2 + \tan^2 \theta_h)^2}$ , for surface normal  $n$ , incoming (light) direction  $i$ , outgoing (view) direction  $o$ , and halfway vector  $h$ .

$$Fresnel = \frac{1}{2} \frac{(g - c)^2}{(g + c)^2} \left(1 + \frac{(c(g + c) - 1)^2}{(c(g - c) + 1)^2}\right)$$

where  $g = \sqrt{\frac{\eta_t^2}{\eta_i^2} - 1 + c^2}$  and  $c = |i \cdot h|$ . We use  $\eta_i = 1.000277$ , which is the default in Mitsuba. We use Mitsuba’s implementation of the GGX model.

# aluminium

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0987	0.0950	0.0958	0.1288	0.1248	0.1349	0.0044	4.9959
Log-based	0.0295	0.0329	0.0373	0.2107	0.2016	0.2048	0.0218	4.7120
Image-driven with CSSIM ( $\gamma = 2.6$ )	0.0132	0.0140	0.0158	0.3704	0.3518	0.3653	0.0201	3.6840
Image-driven with LPIPS ( $\gamma = 2.5$ )	0.0142	0.0151	0.0170	0.4012	0.3743	0.3851	0.0164	3.6161



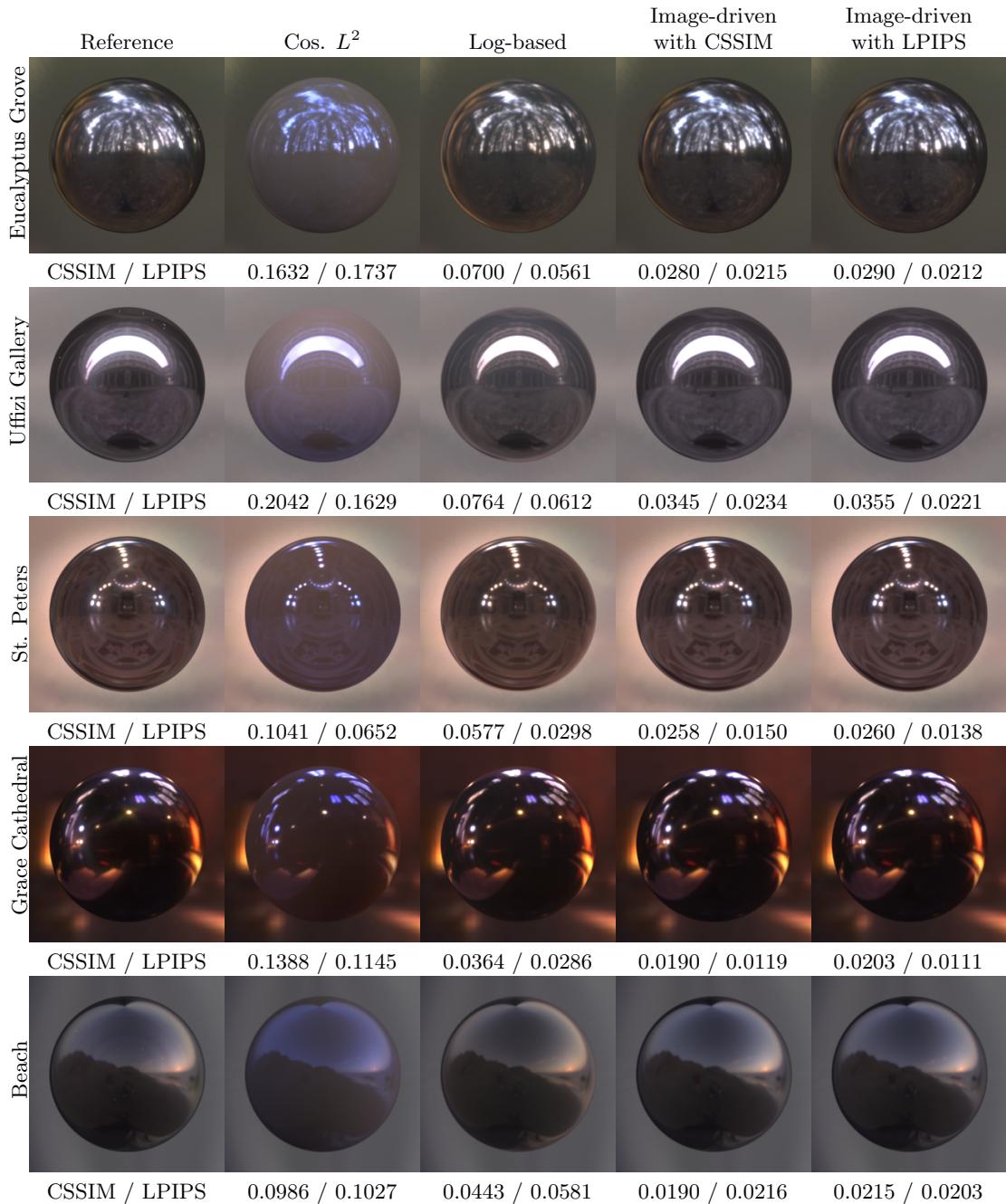
# chrome

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0475	0.0209	0.0211	0.2342	0.2763	0.2794	0.0057	4.9960
Log-based	0.0033	0.0030	0.0035	1.0000	0.7930	0.7015	0.0059	2.0779
Image-driven with CSSIM ( $\gamma = 2.4$ )	0.0025	0.0020	0.0023	0.3066	0.2910	0.2678	0.0058	4.9960
Image-driven with LPIPS ( $\gamma = 2.4$ )	0.0025	0.0020	0.0023	0.3066	0.2910	0.2678	0.0058	4.9960



# chrome-steel

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0663	0.0480	0.0395	0.0806	0.0868	0.2597	0.0053	4.9960
Log-based	0.0116	0.0127	0.0141	0.7230	0.5439	0.5368	0.0078	2.0251
Image-driven with CSSIM ( $\gamma = 2.7$ )	0.0047	0.0039	0.0037	0.3172	0.2751	0.3431	0.0094	3.7362
Image-driven with LPIPS ( $\gamma = 2.6$ )	0.0050	0.0042	0.0039	0.2642	0.2268	0.2943	0.0086	4.4862



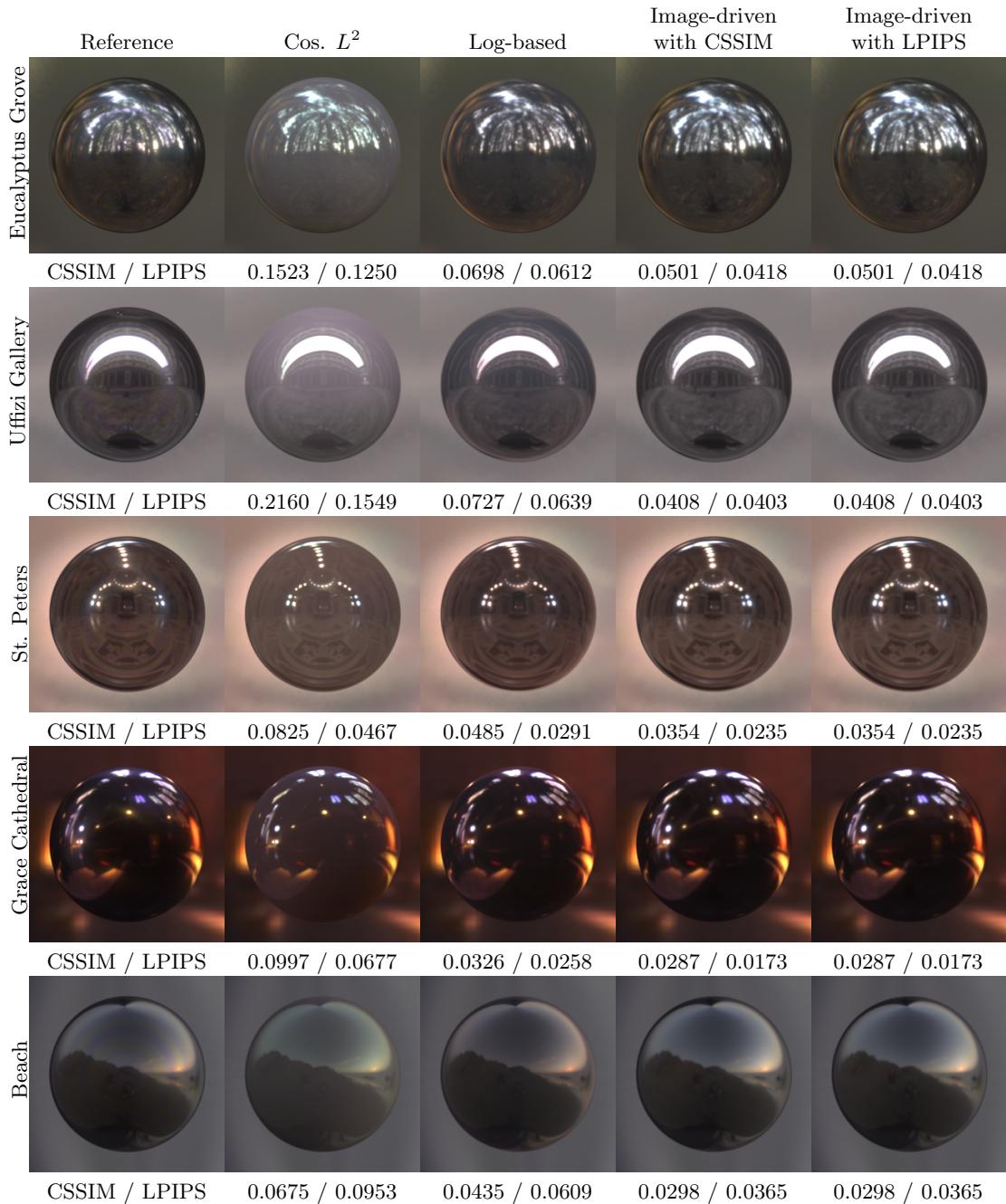
# tungsten-carbide

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0568	0.0417	0.0298	0.0937	0.1383	0.2216	0.0050	4.9959
Log-based	0.0053	0.0050	0.0055	0.9550	0.7157	0.6659	0.0063	1.8609
Image-driven with CSSIM ( $\gamma = 2.8$ )	0.0035	0.0030	0.0031	0.2254	0.2078	0.2349	0.0061	4.9960
Image-driven with LPIPS ( $\gamma = 2.8$ )	0.0035	0.0030	0.0031	0.2254	0.2078	0.2349	0.0061	4.9960



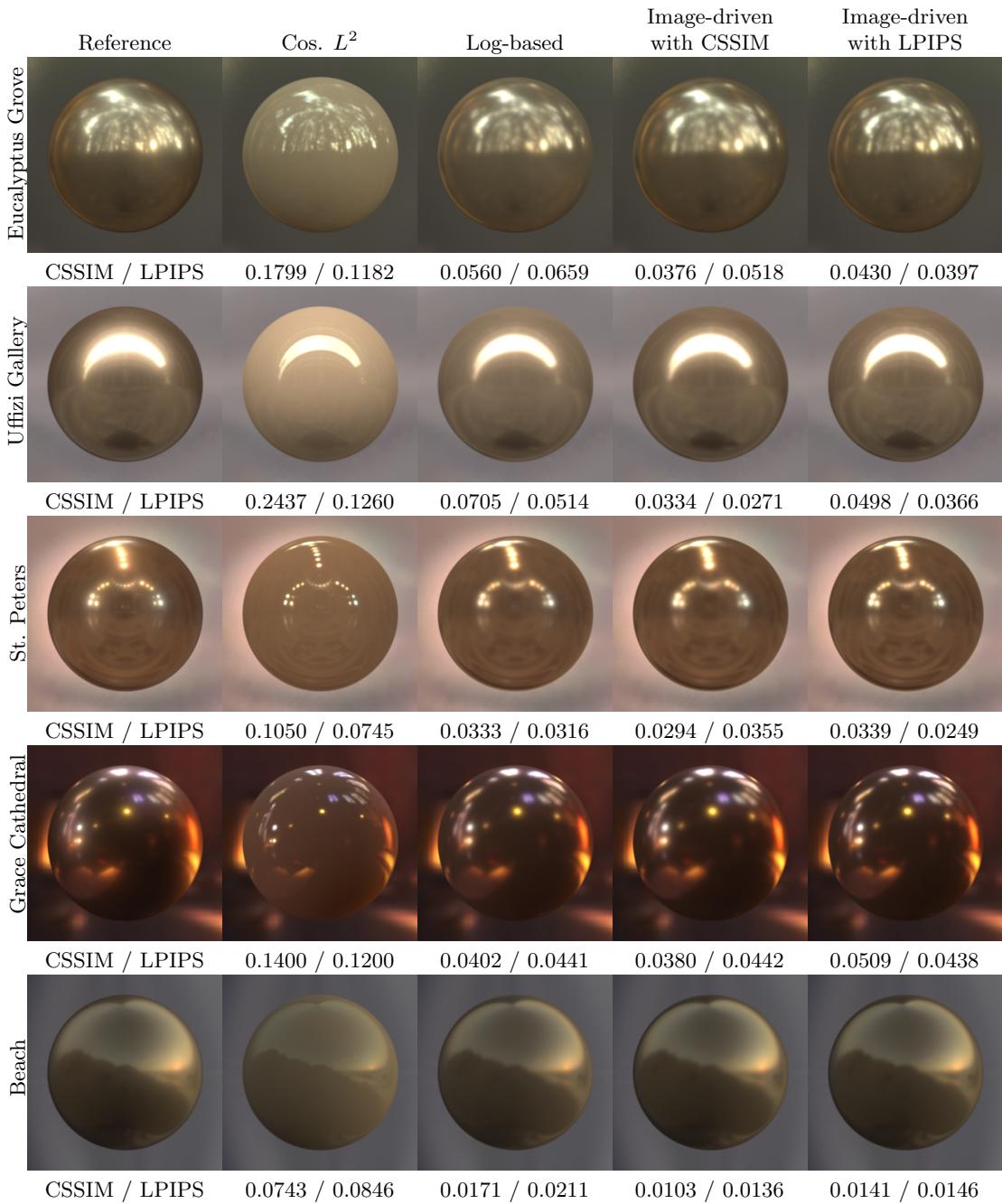
# steel

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0698	0.0558	0.0607	0.1713	0.1948	0.1542	0.0046	4.9959
Log-based	0.0124	0.0139	0.0160	0.6751	0.5152	0.5014	0.0074	2.0657
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.0049	0.0043	0.0047	0.3966	0.3676	0.3722	0.0097	3.4722
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.0049	0.0043	0.0047	0.3966	0.3676	0.3722	0.0097	3.4722



# gold-metallic-paint3

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1817	0.1268	0.0658	0.1165	0.1073	0.0621	0.0081	4.9960
Log-based	0.0648	0.0459	0.0246	0.4823	0.3590	0.2003	0.0341	3.2188
Image-driven with CSSIM ( $\gamma = 2.0$ )	0.0434	0.0281	0.0135	0.4442	0.3399	0.1894	0.0385	4.1400
Image-driven with LPIPS ( $\gamma = 1.8$ )	0.0532	0.0351	0.0173	0.3717	0.2880	0.1606	0.0279	4.5096



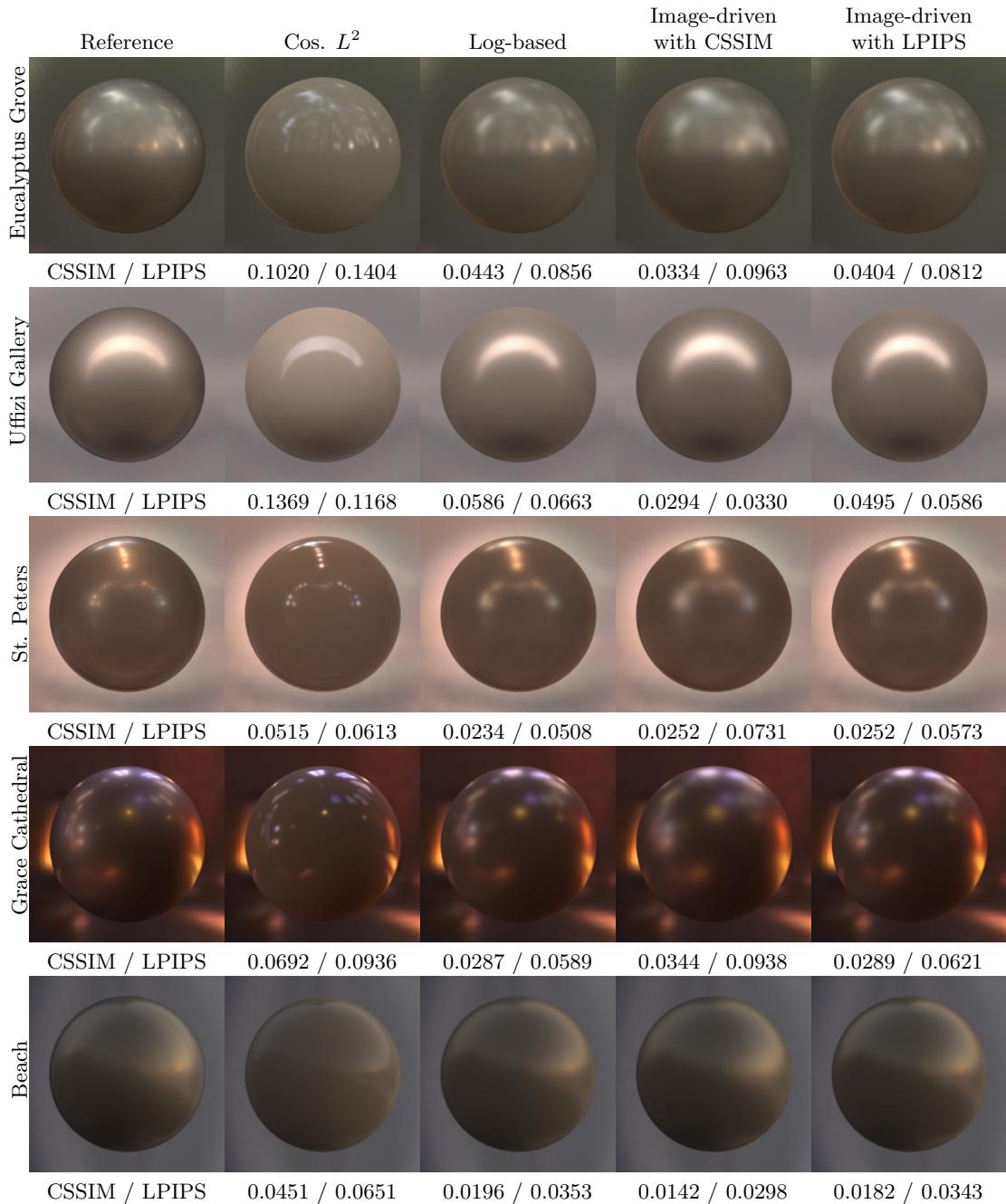
# SS440

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0393	0.0191	0.0294	0.1684	0.1675	0.1936	0.0062	4.9960
Log-based	0.0080	0.0078	0.0081	0.7187	0.5597	0.5125	0.0082	2.0600
Image-driven with CSSIM ( $\gamma = 2.2$ )	0.0050	0.0045	0.0044	0.2450	0.2072	0.2196	0.0072	4.9960
Image-driven with LPIPS ( $\gamma = 2.6$ )	0.0045	0.0040	0.0039	0.2662	0.2221	0.2241	0.0082	4.9960



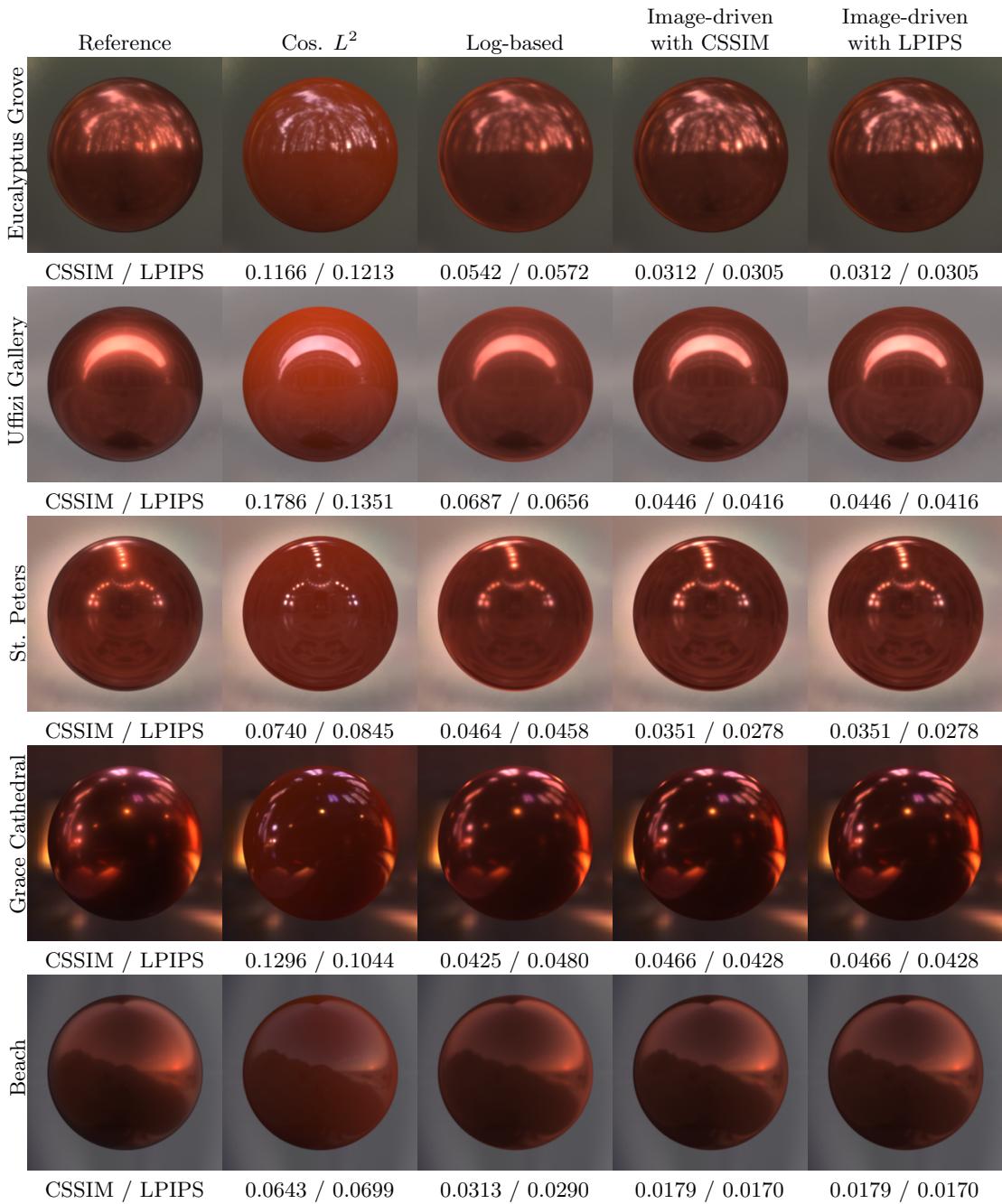
# alum-bronze

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1157	0.0864	0.0573	0.3048	0.2570	0.2595	0.0190	1.5268
Log-based	0.0667	0.0536	0.0391	0.3930	0.2791	0.1960	0.0729	2.1651
Image-driven with CSSIM ( $\gamma = 2.0$ )	0.0417	0.0333	0.0241	0.4417	0.3325	0.2384	0.1149	2.5140
Image-driven with LPIPS ( $\gamma = 1.7$ )	0.0550	0.0438	0.0317	0.5281	0.3902	0.2806	0.0800	2.0582



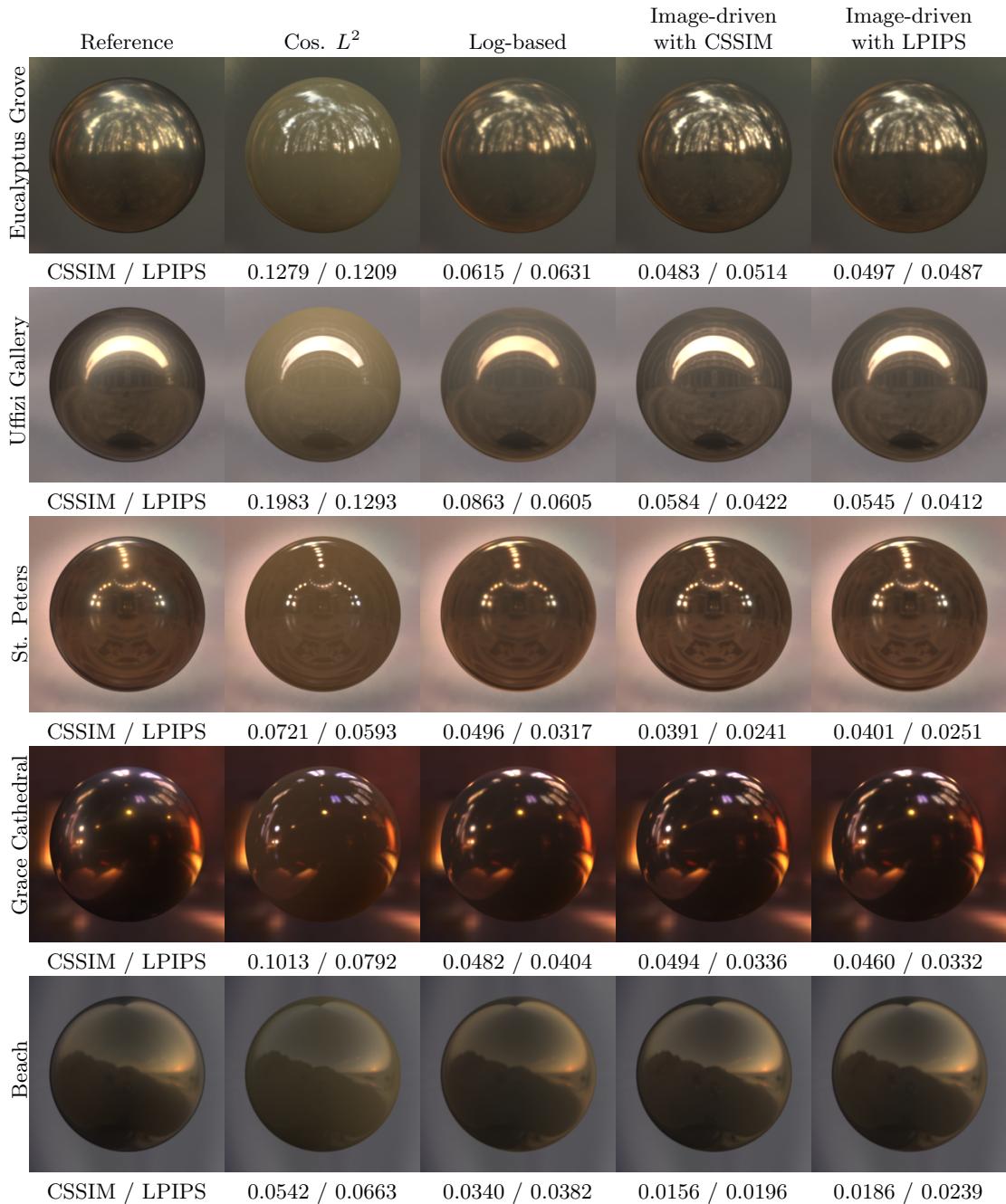
# red-metallic-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1245	0.0092	0.0000	0.1184	0.0483	0.0476	0.0075	4.9960
Log-based	0.0424	0.0057	0.0024	0.9141	0.1699	0.1121	0.0234	1.8925
Image-driven with CSSIM ( $\gamma = 1.9$ )	0.0289	0.0033	0.0011	0.4583	0.0981	0.0677	0.0181	3.0172
Image-driven with LPIPS ( $\gamma = 1.9$ )	0.0289	0.0033	0.0011	0.4583	0.0981	0.0677	0.0181	3.0172



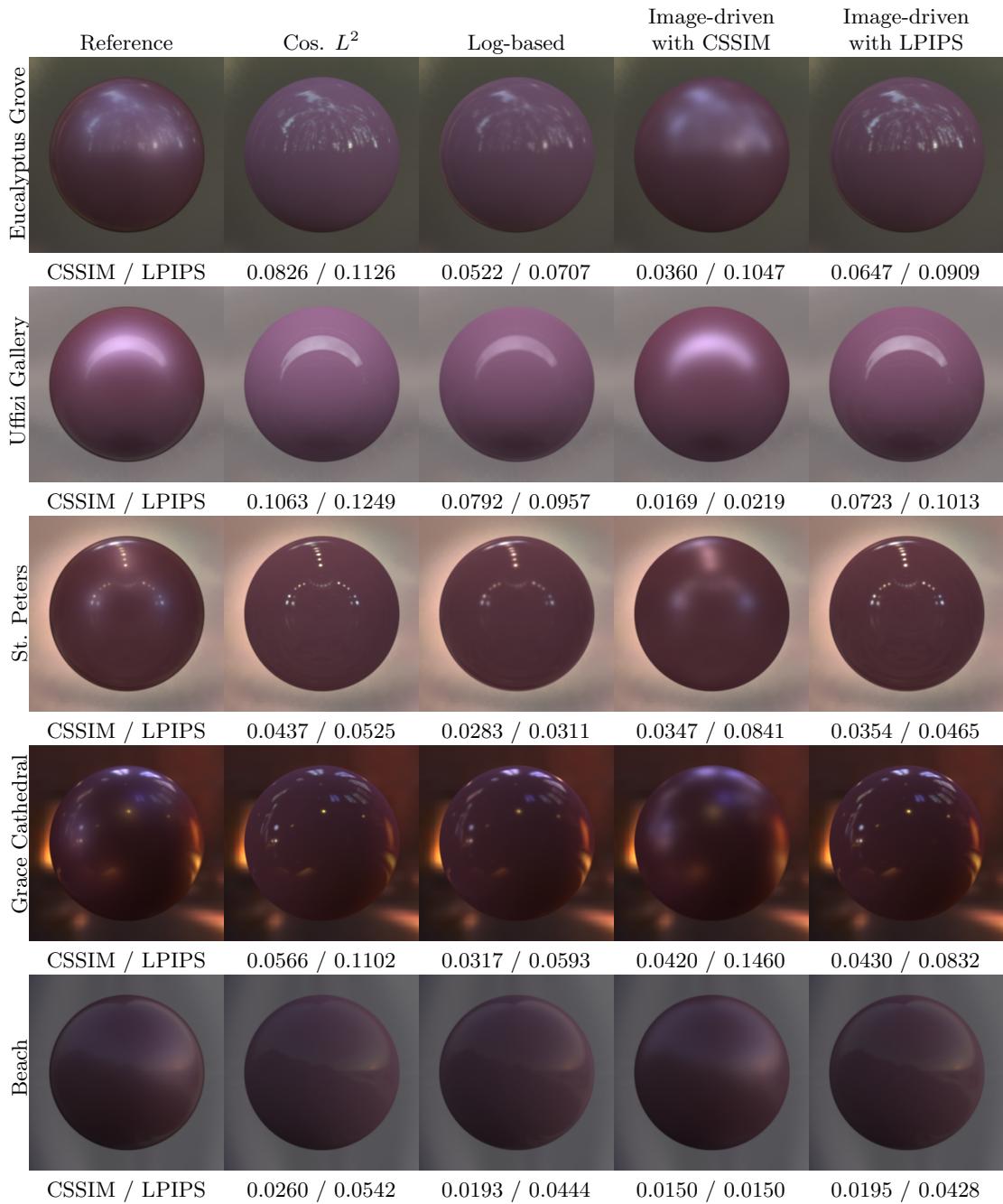
# brass

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0827	0.0605	0.0254	0.1347	0.1030	0.0735	0.0057	4.9960
Log-based	0.0309	0.0280	0.0190	0.5943	0.3475	0.1565	0.0133	2.1257
Image-driven with CSSIM ( $\gamma = 2.2$ )	0.0224	0.0198	0.0136	0.2584	0.1673	0.0886	0.0088	4.9960
Image-driven with LPIPS ( $\gamma = 2.4$ )	0.0201	0.0179	0.0124	0.4437	0.2881	0.1515	0.0127	3.0087



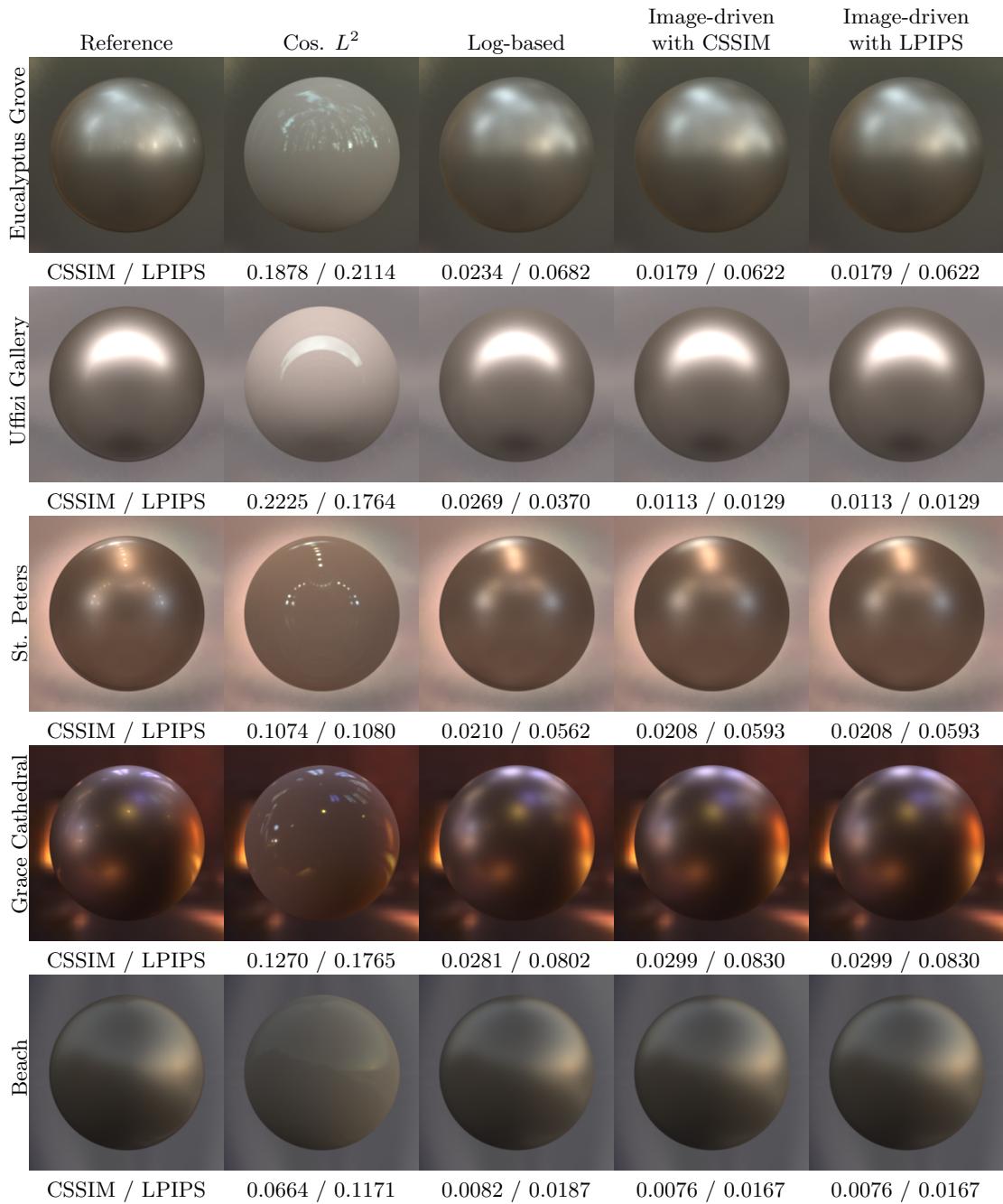
# violet-acrylic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0848	0.0376	0.0657	0.0238	0.0274	0.0250	0.0051	4.4144
Log-based	0.0742	0.0319	0.0542	0.1763	0.1486	0.1674	0.0154	1.5643
Image-driven with CSSIM ( $\gamma = 2.1$ )	0.0484	0.0135	0.0227	0.0923	0.0689	0.1095	0.1234	4.9959
Image-driven with LPIPS ( $\gamma = 2.0$ )	0.0714	0.0278	0.0472	0.0997	0.1005	0.1003	0.0082	2.0271



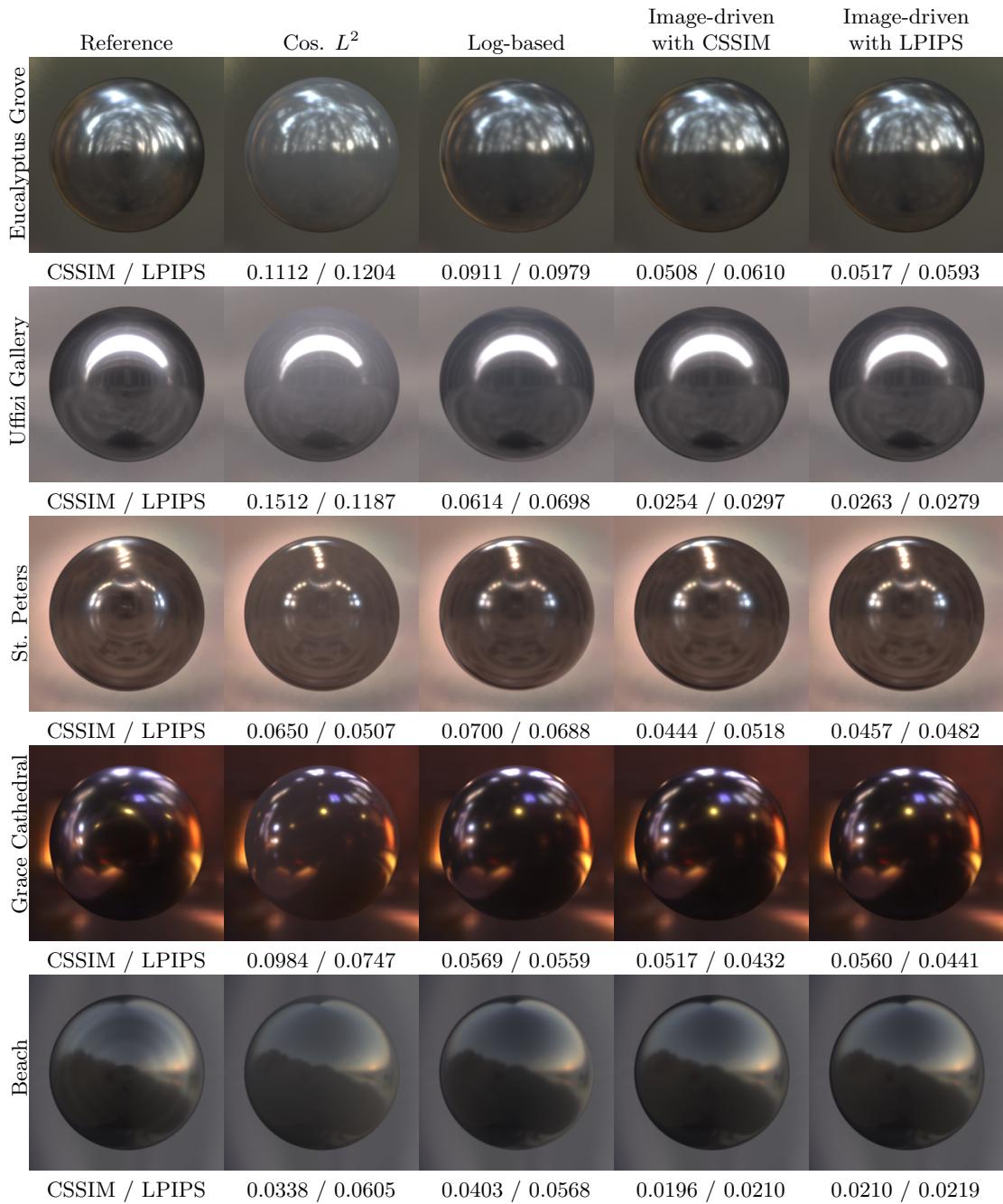
# gold-metallic-paint2

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1782	0.1485	0.1167	0.0343	0.0474	0.0397	0.0050	3.8346
Log-based	0.0442	0.0355	0.0247	0.3206	0.2823	0.2344	0.1327	4.9960
Image-driven with CSSIM ( $\gamma = 1.9$ )	0.0254	0.0190	0.0110	0.3678	0.3235	0.2655	0.1538	4.9960
Image-driven with LPIPS ( $\gamma = 1.9$ )	0.0254	0.0190	0.0110	0.3678	0.3235	0.2655	0.1538	4.9960



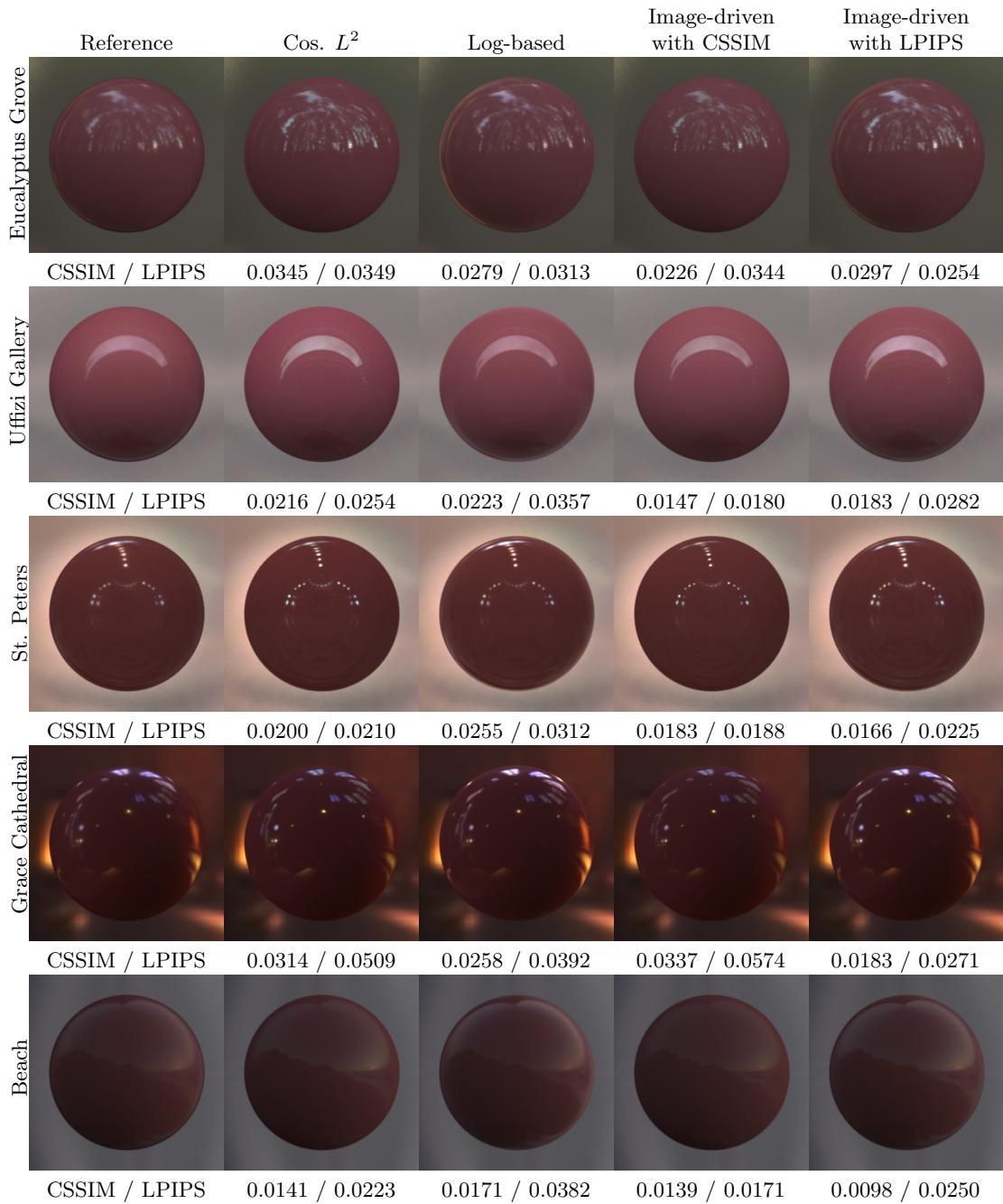
# grease-covered-steel

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0567	0.0546	0.0565	0.1872	0.1802	0.1680	0.0191	4.9960
Log-based	0.0115	0.0130	0.0156	0.6498	0.6044	0.5800	0.0280	2.1378
Image-driven with CSSIM ( $\gamma = 1.9$ )	0.0062	0.0064	0.0076	0.2607	0.2477	0.2367	0.0299	4.9960
Image-driven with LPIPS ( $\gamma = 1.7$ )	0.0074	0.0078	0.0093	0.2552	0.2406	0.2270	0.0274	4.9960



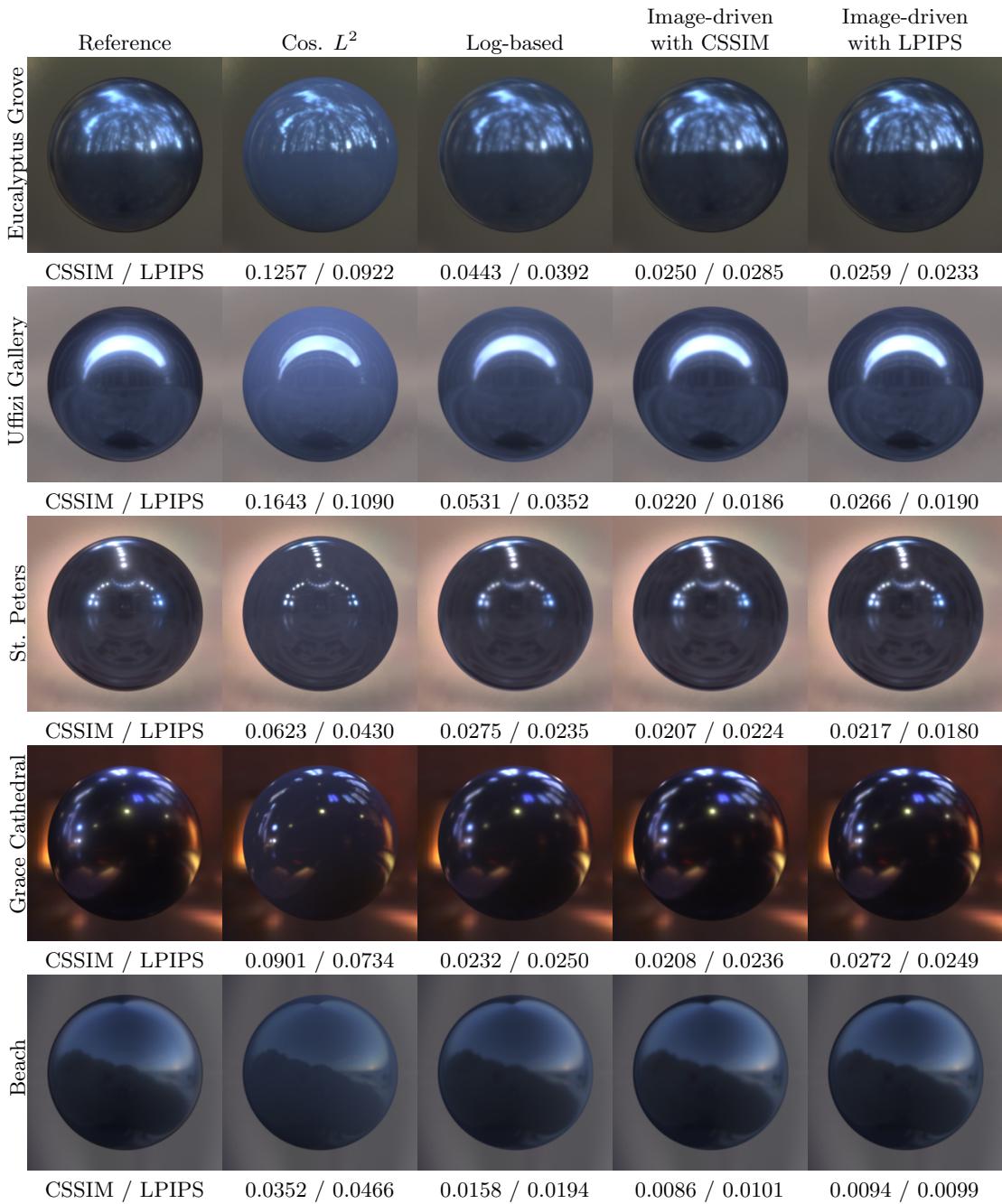
# specular-violet-phenolic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0718	0.0163	0.0206	0.0205	0.0257	0.0235	0.0037	4.9959
Log-based	0.0692	0.0177	0.0204	0.4733	0.3765	0.4068	0.0064	1.2970
Image-driven with CSSIM ( $\gamma = 1.2$ )	0.0722	0.0189	0.0219	0.0143	0.0176	0.0164	0.0030	4.9960
Image-driven with LPIPS ( $\gamma = 2.8$ )	0.0693	0.0173	0.0199	0.1851	0.1794	0.1855	0.0065	1.6709



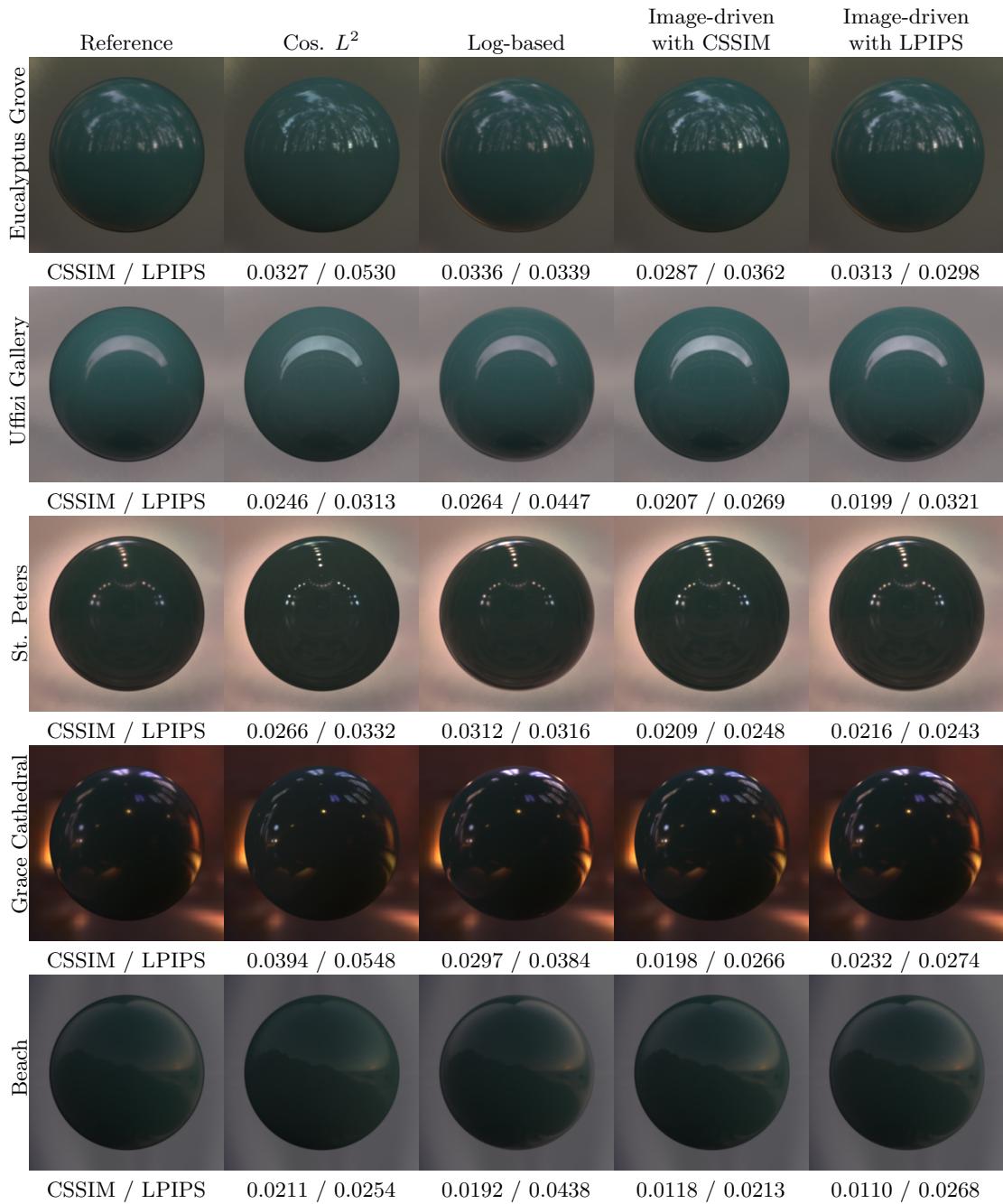
# blue-metallic-paint2

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0268	0.0404	0.0906	0.0622	0.0977	0.1618	0.0097	4.9960
Log-based	0.0106	0.0152	0.0282	0.2222	0.3295	0.6420	0.0229	2.2872
Image-driven with CSSIM ( $\gamma = 2.1$ )	0.0044	0.0057	0.0124	0.1813	0.2750	0.5195	0.0249	3.0239
Image-driven with LPIPS ( $\gamma = 1.9$ )	0.0054	0.0071	0.0151	0.1573	0.2402	0.4513	0.0204	3.2477



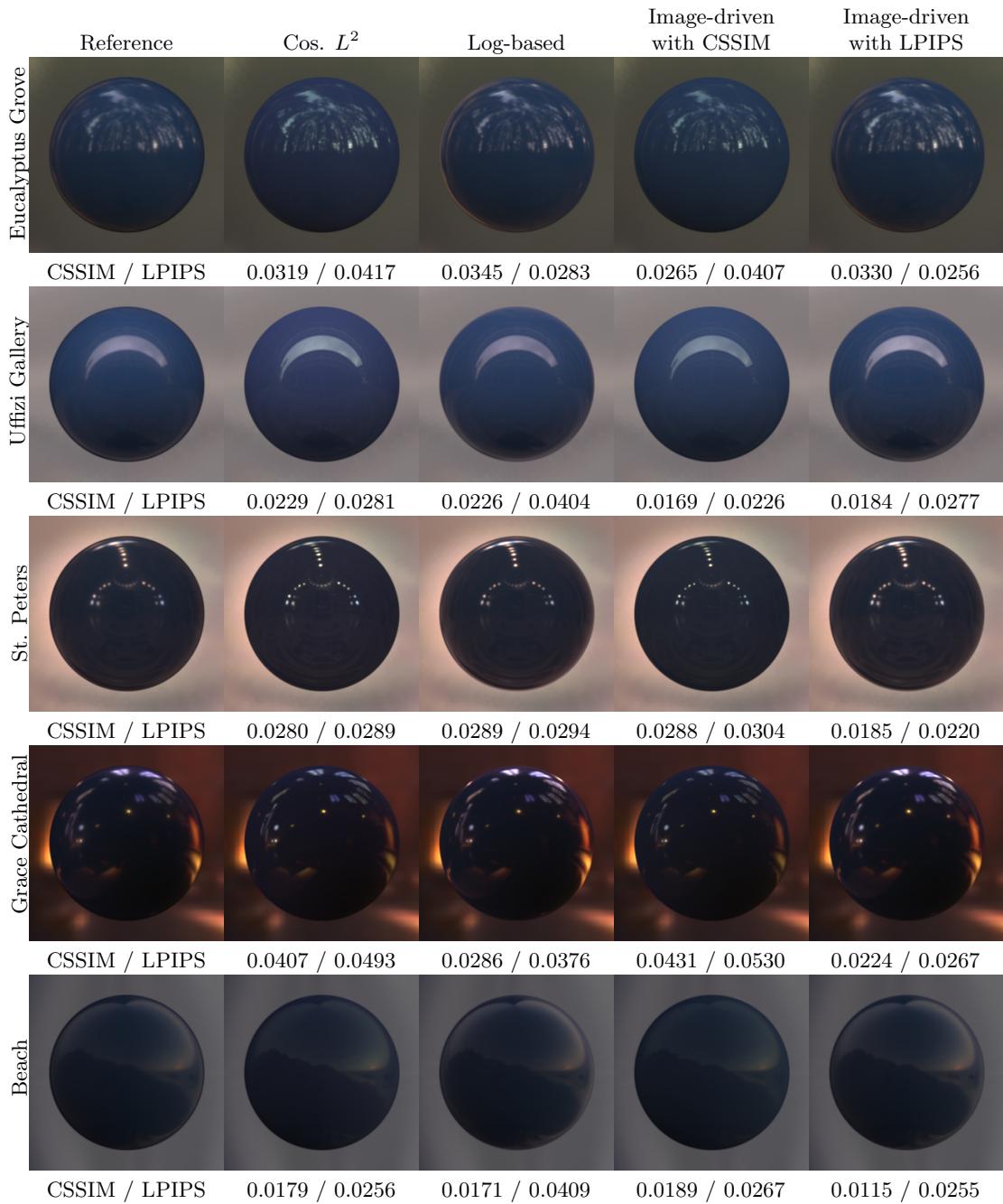
# specular-green-phenolic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0108	0.0271	0.0240	0.0193	0.0243	0.0233	0.0036	4.9959
Log-based	0.0078	0.0257	0.0227	0.4926	0.3914	0.4047	0.0069	1.3016
Image-driven with CSSIM ( $\gamma = 2.3$ )	0.0072	0.0258	0.0226	0.1014	0.1004	0.1012	0.0055	2.1301
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.0070	0.0255	0.0223	0.2636	0.2240	0.2342	0.0075	1.5666



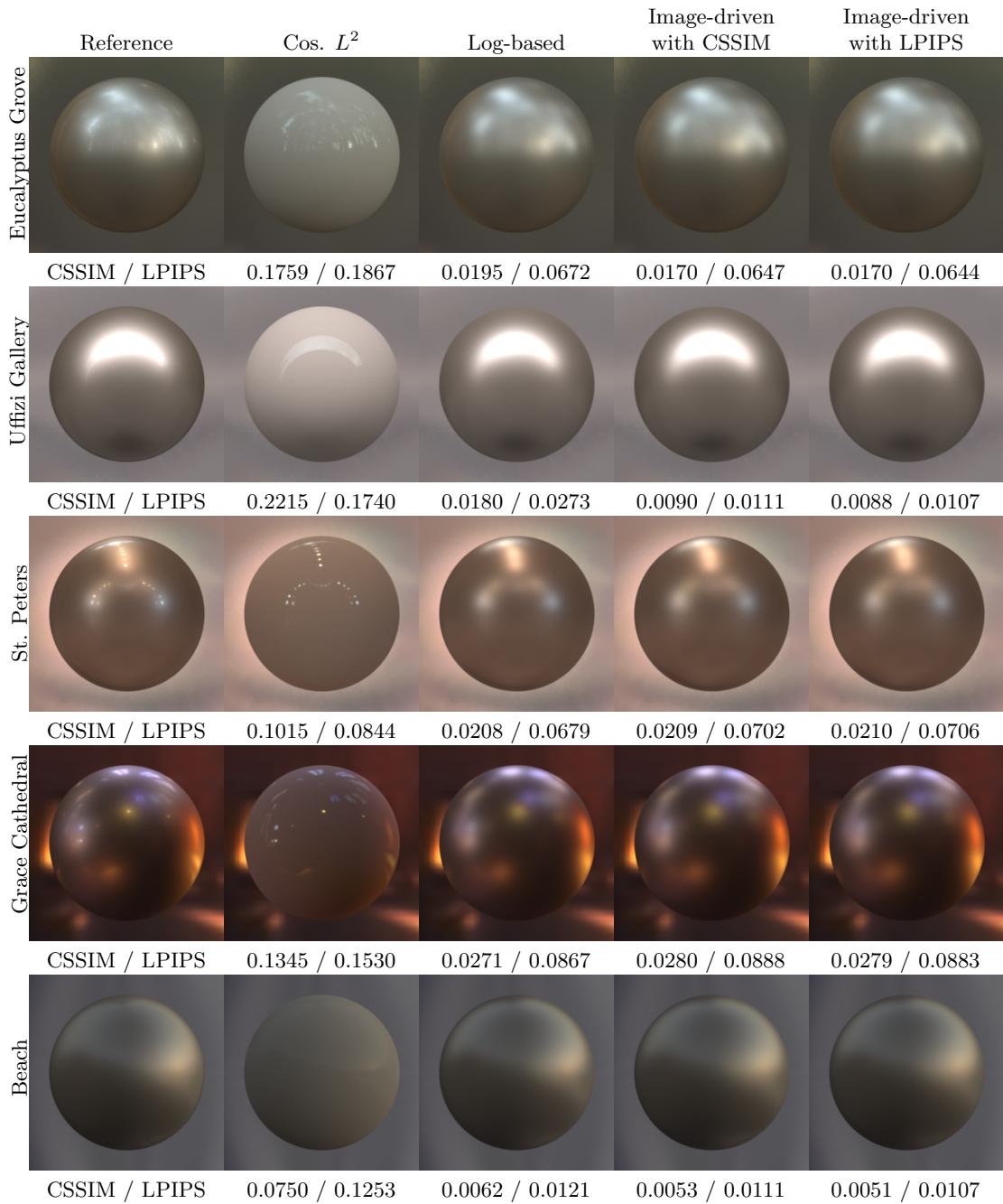
# specular-blue-phenolic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0089	0.0133	0.0340	0.0209	0.0248	0.0209	0.0037	4.9959
Log-based	0.0058	0.0138	0.0319	0.4842	0.3882	0.4028	0.0070	1.2994
Image-driven with CSSIM ( $\gamma = 1.1$ )	0.0078	0.0155	0.0346	0.0161	0.0189	0.0160	0.0032	4.9959
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.0048	0.0132	0.0315	0.2660	0.2274	0.2220	0.0081	1.5706



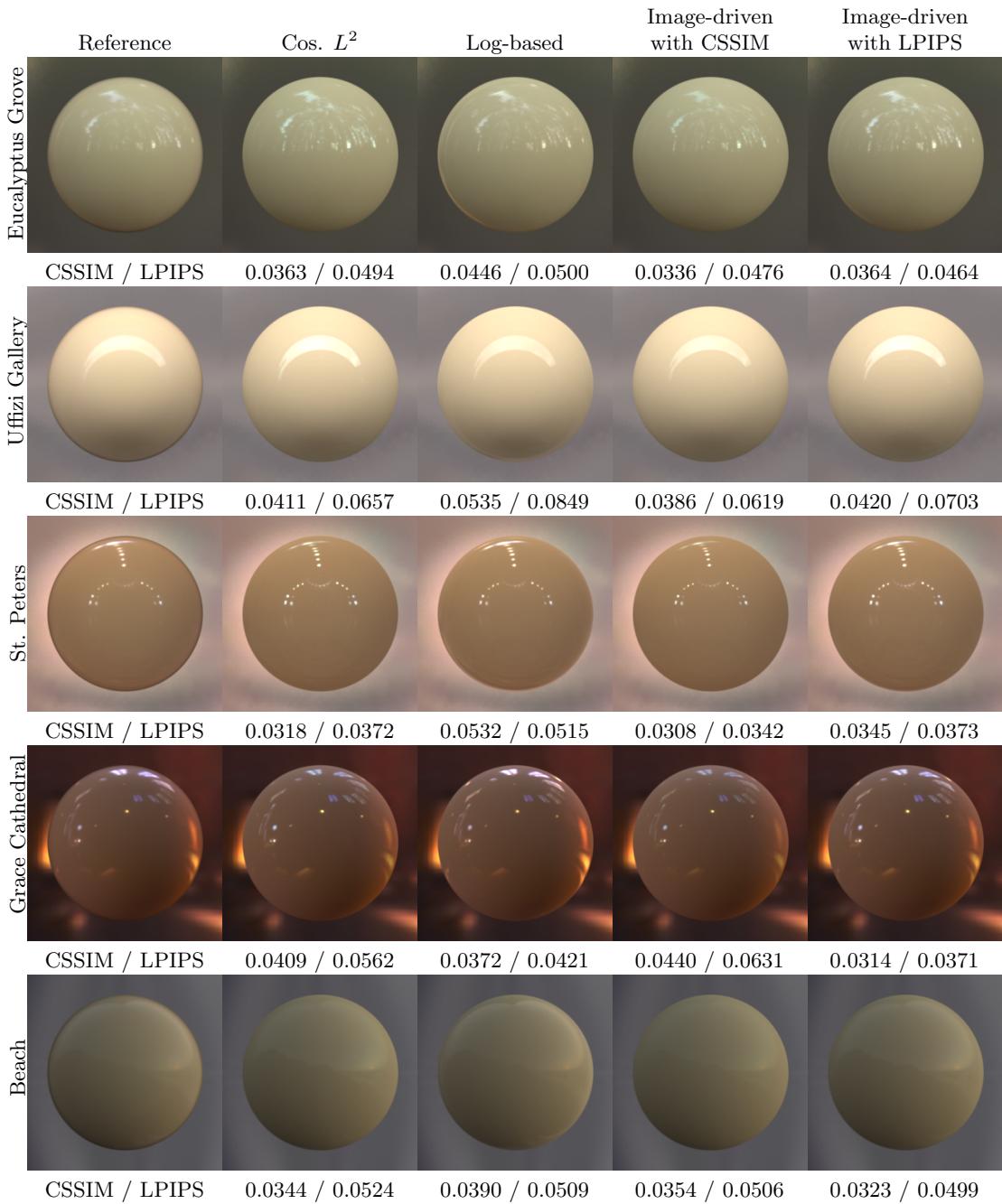
# two-layer-gold

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1783	0.1547	0.1228	0.0141	0.0173	0.0154	0.0043	4.9959
Log-based	0.0413	0.0330	0.0224	0.3224	0.2895	0.2451	0.1352	4.9960
Image-driven with CSSIM ( $\gamma = 1.7$ )	0.0261	0.0198	0.0116	0.3624	0.3248	0.2701	0.1481	4.9960
Image-driven with LPIPS ( $\gamma = 1.8$ )	0.0242	0.0183	0.0105	0.3680	0.3289	0.2730	0.1516	4.9960



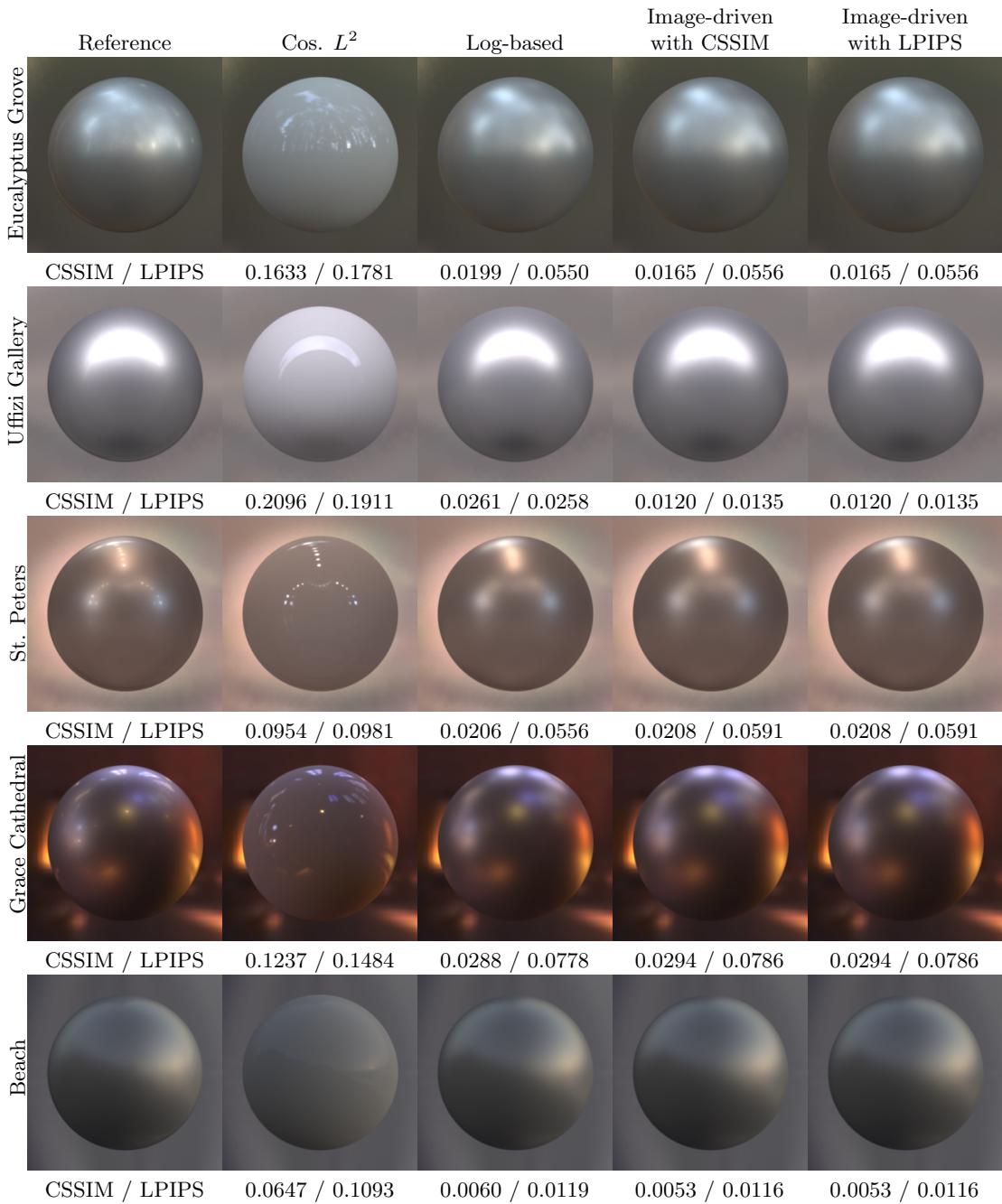
# specular-white-phenolic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2847	0.2293	0.1251	0.0279	0.0392	0.0339	0.0039	4.9959
Log-based	0.2800	0.2267	0.1244	0.4587	0.3785	0.3417	0.0053	1.3809
Image-driven with CSSIM ( $\gamma = 1.2$ )	0.2838	0.2299	0.1271	0.0185	0.0261	0.0225	0.0031	4.9960
Image-driven with LPIPS ( $\gamma = 2.9$ )	0.2781	0.2243	0.1236	0.1102	0.1166	0.1084	0.0049	2.1910



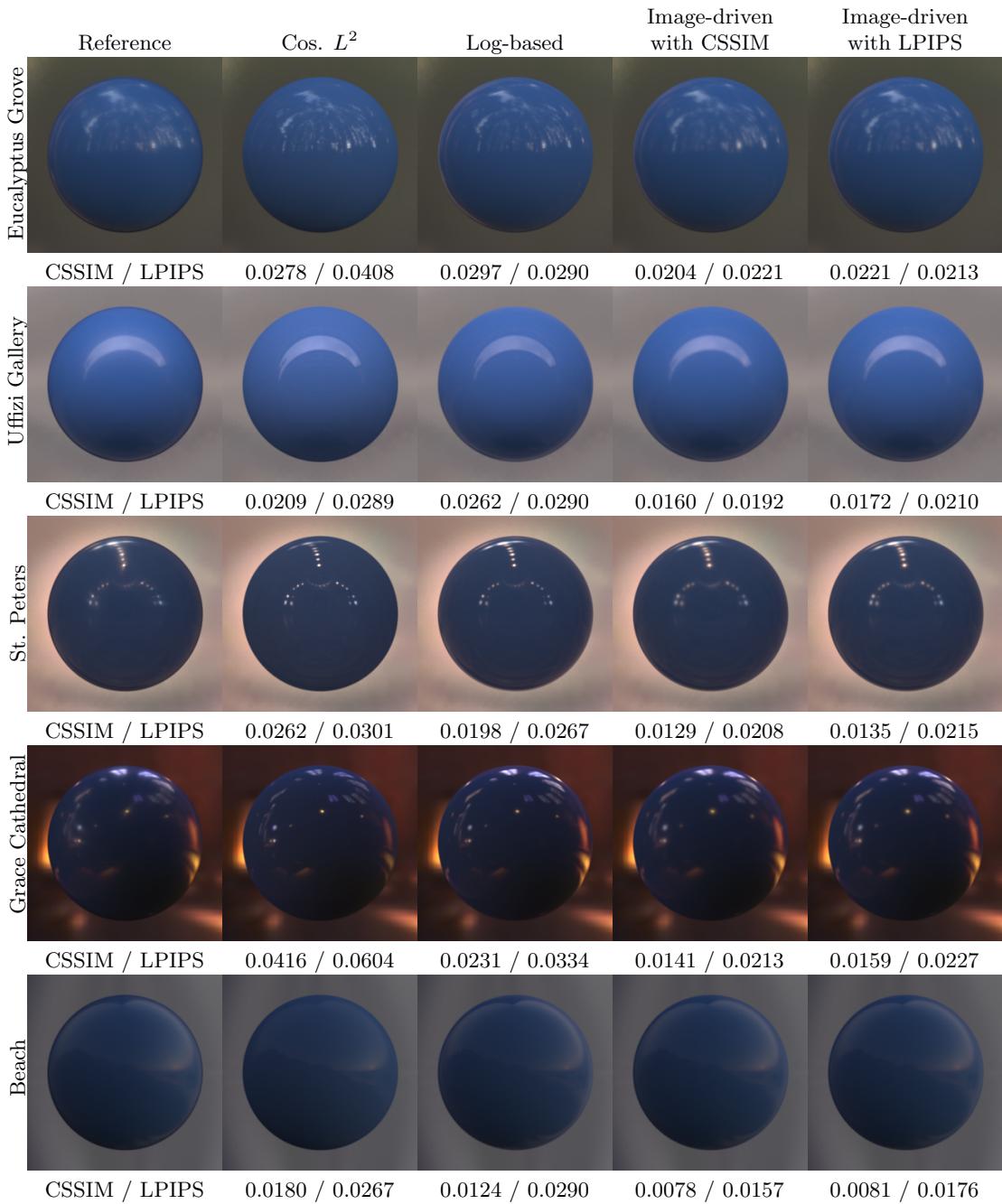
# two-layer-silver

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1843	0.1808	0.1784	0.0429	0.0435	0.0559	0.0053	3.1991
Log-based	0.0559	0.0570	0.0597	0.3198	0.3084	0.2979	0.1390	4.9960
Image-driven with CSSIM ( $\gamma = 1.8$ )	0.0355	0.0375	0.0397	0.3665	0.3541	0.3468	0.1640	4.9959
Image-driven with LPIPS ( $\gamma = 1.8$ )	0.0355	0.0375	0.0397	0.3665	0.3541	0.3468	0.1640	4.9959



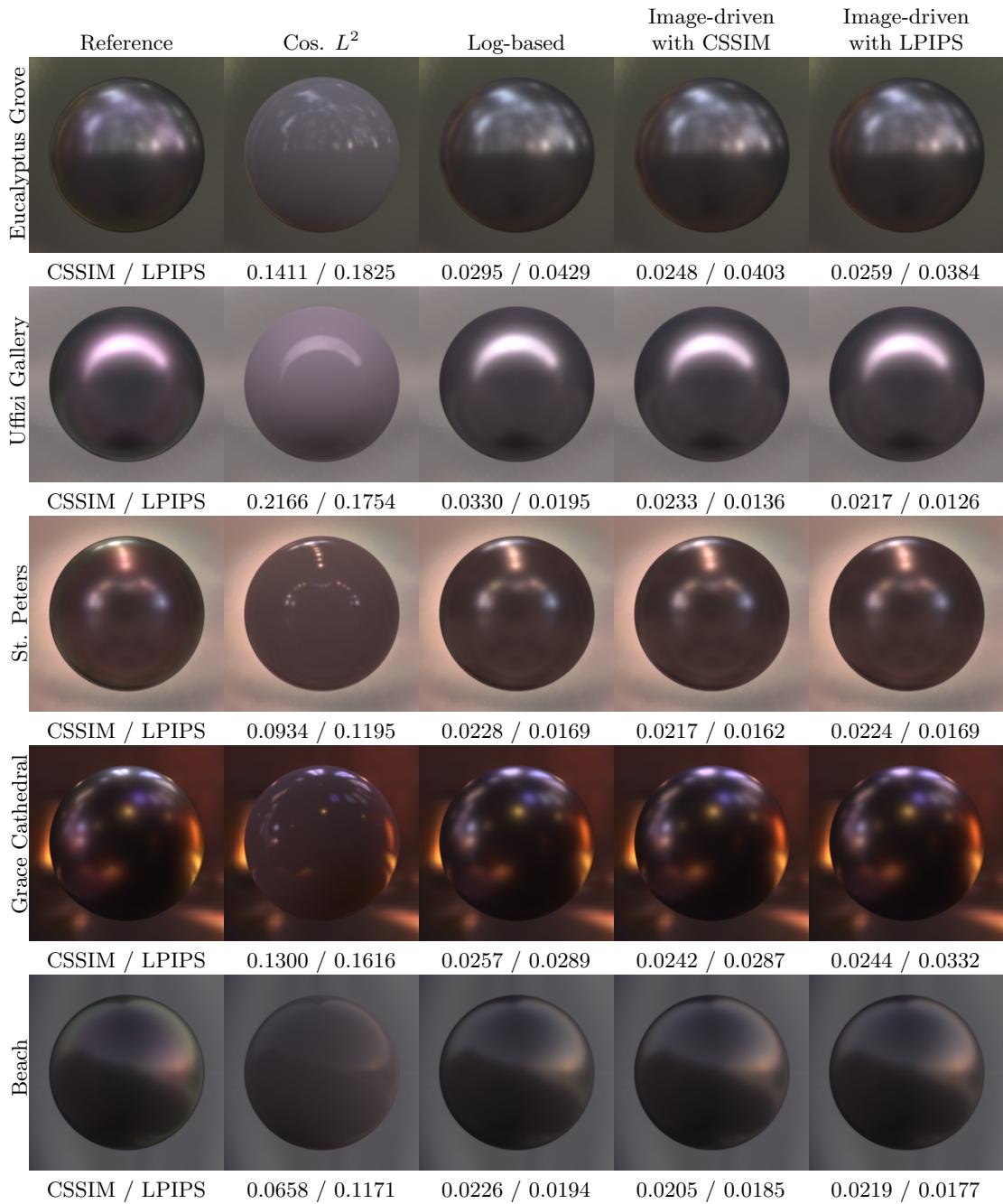
# blue-acrylic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0179	0.0420	0.1106	0.0159	0.0158	0.0184	0.0045	4.9959
Log-based	0.0149	0.0383	0.1073	0.3400	0.3056	0.3002	0.0075	1.2848
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.0130	0.0371	0.1065	0.2166	0.1935	0.1914	0.0188	1.4805
Image-driven with LPIPS ( $\gamma = 2.8$ )	0.0132	0.0374	0.1069	0.2265	0.2012	0.1981	0.0153	1.4775



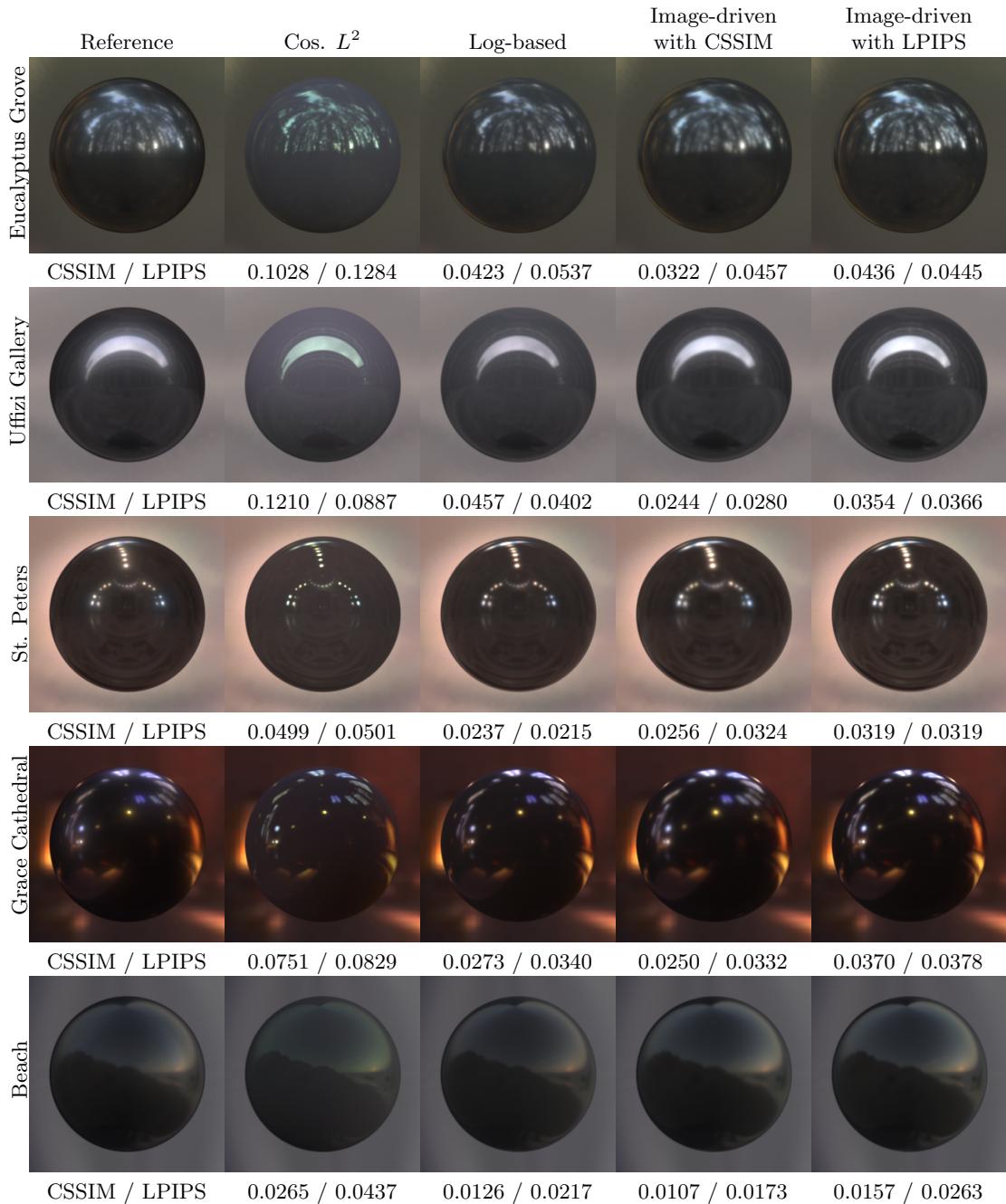
# color-changing-paint2

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0714	0.0543	0.0619	0.2101	0.1587	0.1713	0.0182	1.5329
Log-based	0.0089	0.0069	0.0091	0.2330	0.1924	0.2024	0.0712	3.3945
Image-driven with CSSIM ( $\gamma = 1.7$ )	0.0043	0.0050	0.0066	0.3191	0.2430	0.2644	0.0739	2.8692
Image-driven with LPIPS ( $\gamma = 2.0$ )	0.0032	0.0043	0.0057	0.2829	0.2102	0.2302	0.0784	3.2411



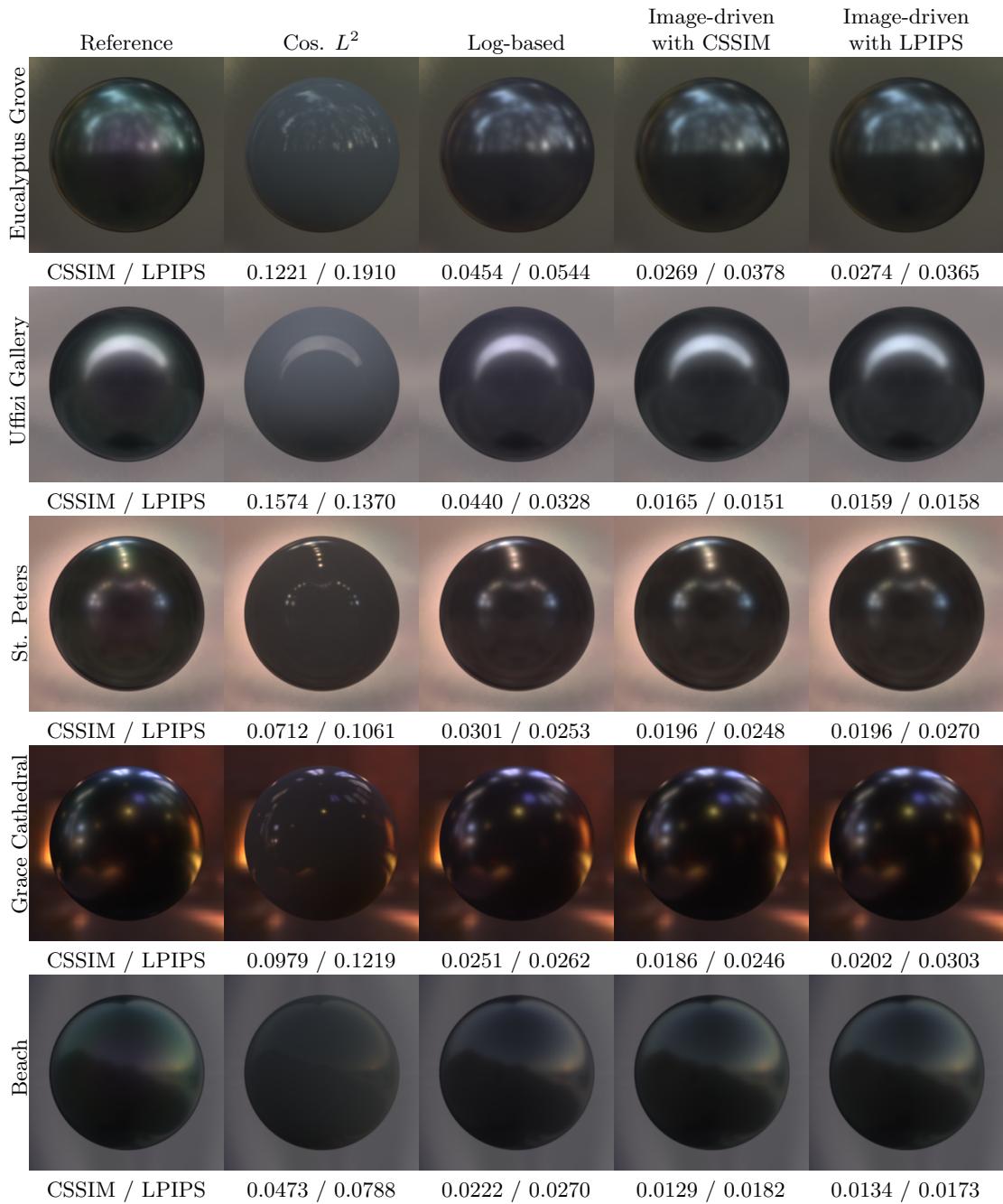
# hematite

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0317	0.0289	0.0347	0.0394	0.0566	0.0408	0.0041	4.9959
Log-based	0.0137	0.0147	0.0154	0.2239	0.2104	0.2129	0.0132	1.9156
Image-driven with CSSIM ( $\gamma = 2.5$ )	0.0063	0.0063	0.0067	0.2272	0.2348	0.2367	0.0227	2.2689
Image-driven with LPIPS ( $\gamma = 2.4$ )	0.0072	0.0072	0.0077	0.2471	0.2560	0.2506	0.0145	2.2621



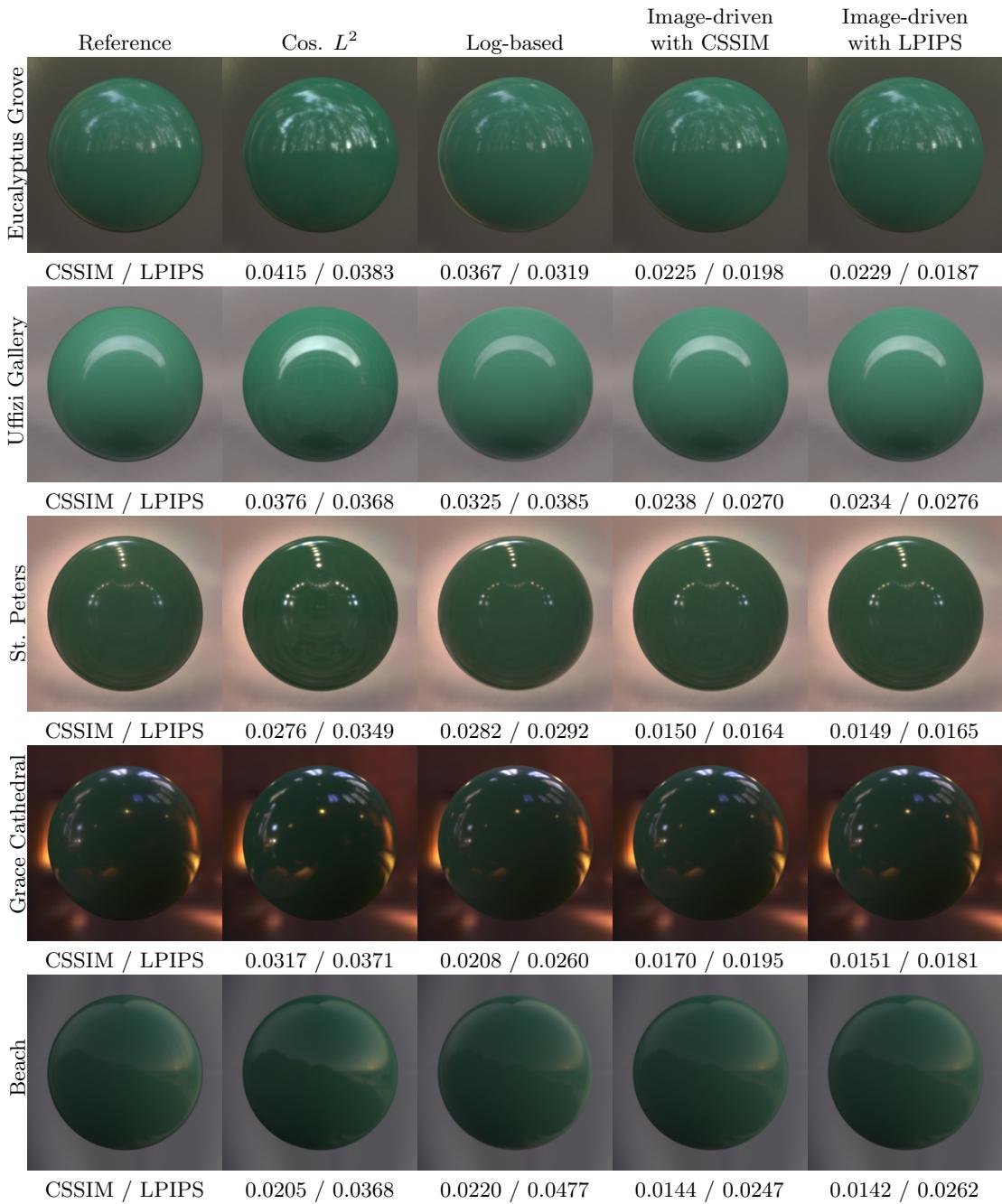
# color-changing-paint1

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0289	0.0331	0.0364	0.1232	0.1125	0.0982	0.0119	1.5122
Log-based	0.0058	0.0058	0.0091	0.2044	0.2024	0.2263	0.0480	2.1617
Image-driven with CSSIM ( $\gamma = 1.9$ )	0.0011	0.0014	0.0021	0.2143	0.2445	0.2501	0.0547	2.2031
Image-driven with LPIPS ( $\gamma = 2.1$ )	0.0008	0.0010	0.0016	0.1833	0.2135	0.2201	0.0592	2.4078



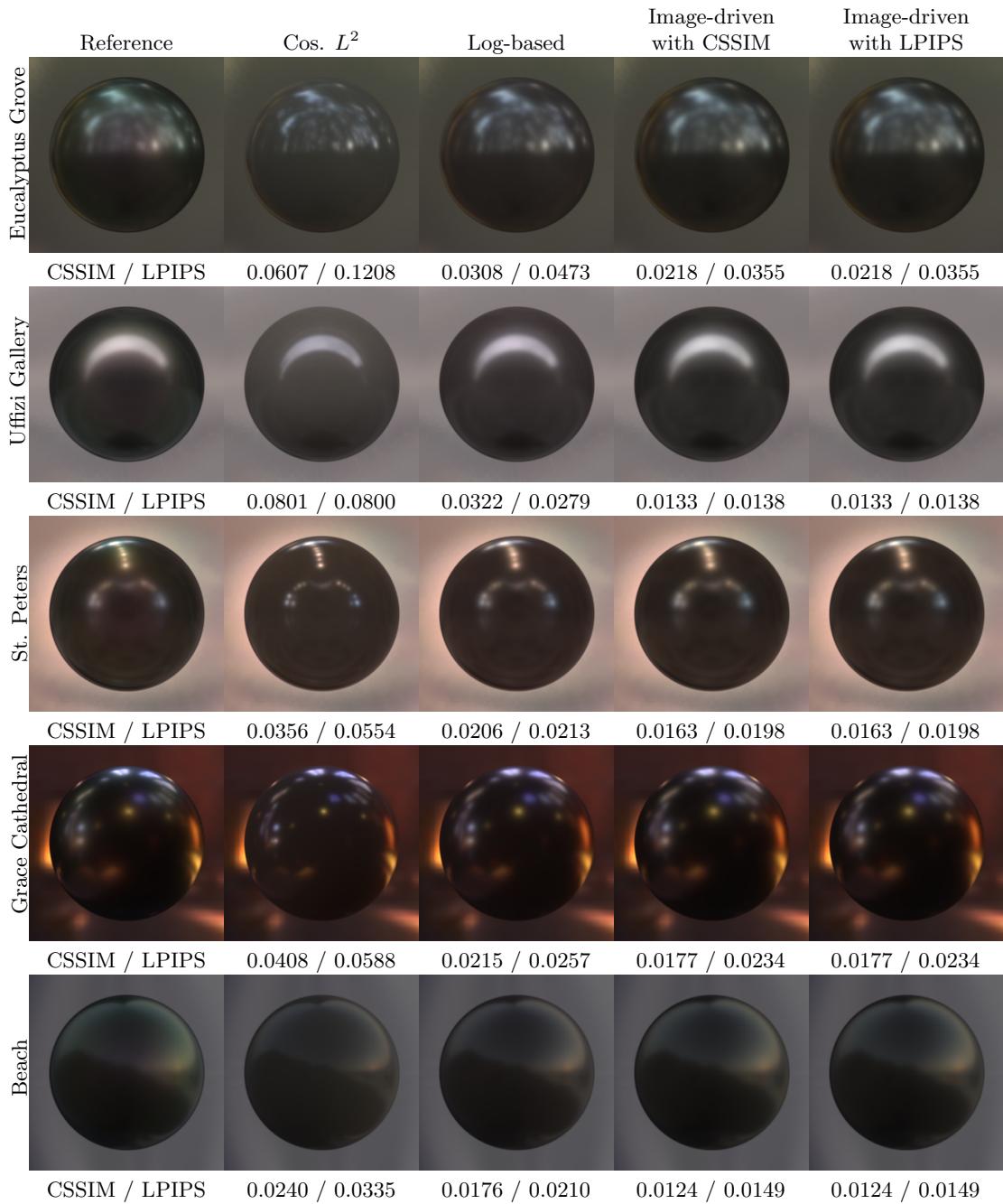
# green-acrylic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0100	0.0647	0.0321	0.1163	0.1339	0.1218	0.0104	2.5849
Log-based	0.0180	0.0751	0.0415	0.5453	0.5221	0.5263	0.0093	1.2633
Image-driven with CSSIM ( $\gamma = 1.8$ )	0.0173	0.0756	0.0414	0.1907	0.2000	0.1871	0.0098	1.6562
Image-driven with LPIPS ( $\gamma = 2.0$ )	0.0171	0.0754	0.0411	0.2300	0.2353	0.2258	0.0103	1.5695



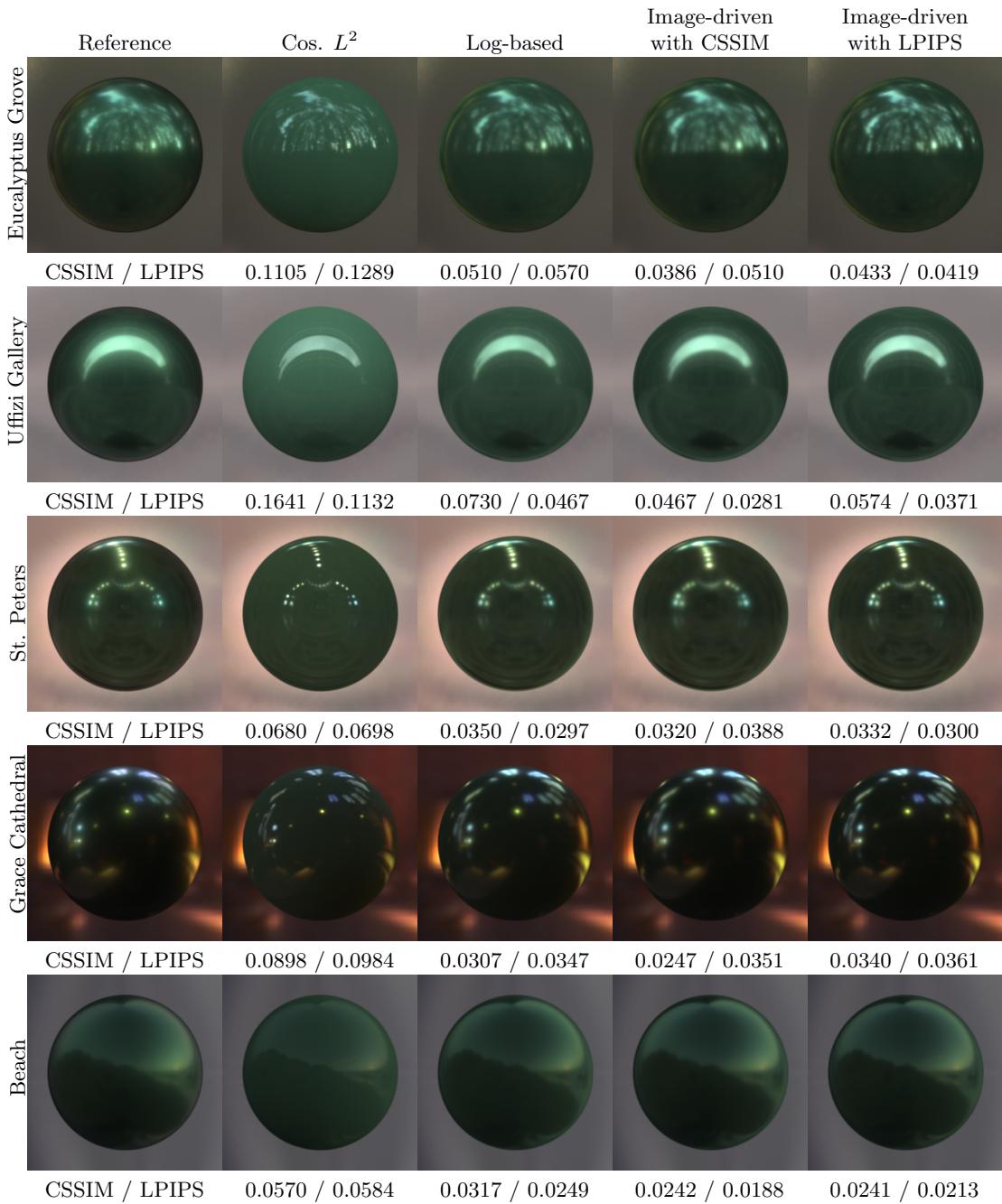
# color-changing-paint3

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0225	0.0197	0.0149	0.2028	0.1956	0.2055	0.0288	1.7102
Log-based	0.0090	0.0063	0.0056	0.2270	0.2088	0.2049	0.0496	2.0353
Image-driven with CSSIM ( $\gamma = 1.9$ )	0.0022	0.0019	0.0013	0.2279	0.2212	0.1975	0.0584	2.1902
Image-driven with LPIPS ( $\gamma = 1.9$ )	0.0022	0.0019	0.0013	0.2279	0.2212	0.1975	0.0584	2.1902



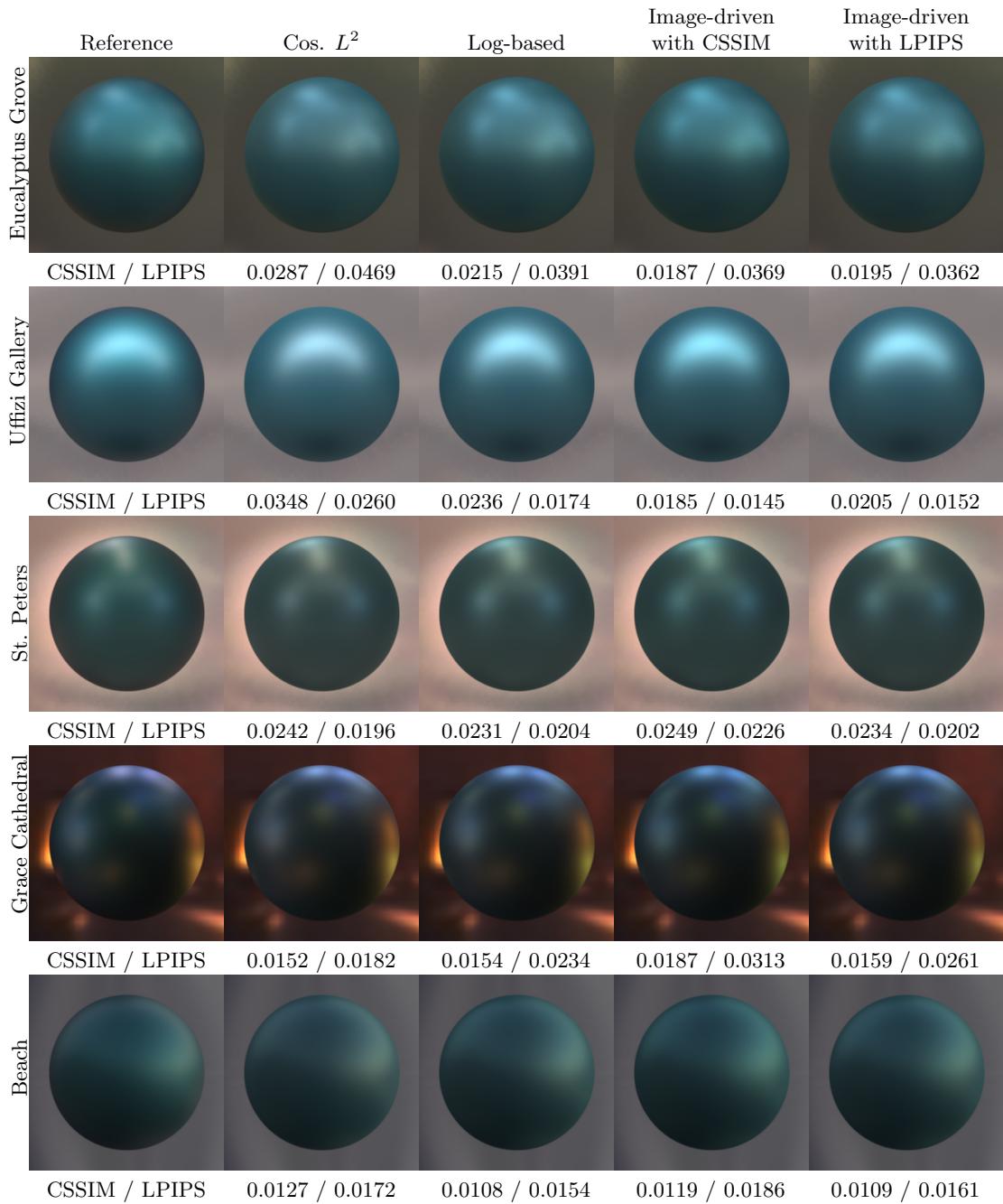
# green-metallic-paint2

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0148	0.0431	0.0218	0.0308	0.0510	0.0377	0.0067	4.0384
Log-based	0.0064	0.0180	0.0094	0.1556	0.3265	0.1960	0.0231	1.9141
Image-driven with CSSIM ( $\gamma = 2.1$ )	0.0023	0.0079	0.0037	0.1669	0.3445	0.2117	0.0322	2.1135
Image-driven with LPIPS ( $\gamma = 1.8$ )	0.0034	0.0109	0.0052	0.1547	0.3031	0.1929	0.0208	2.1010



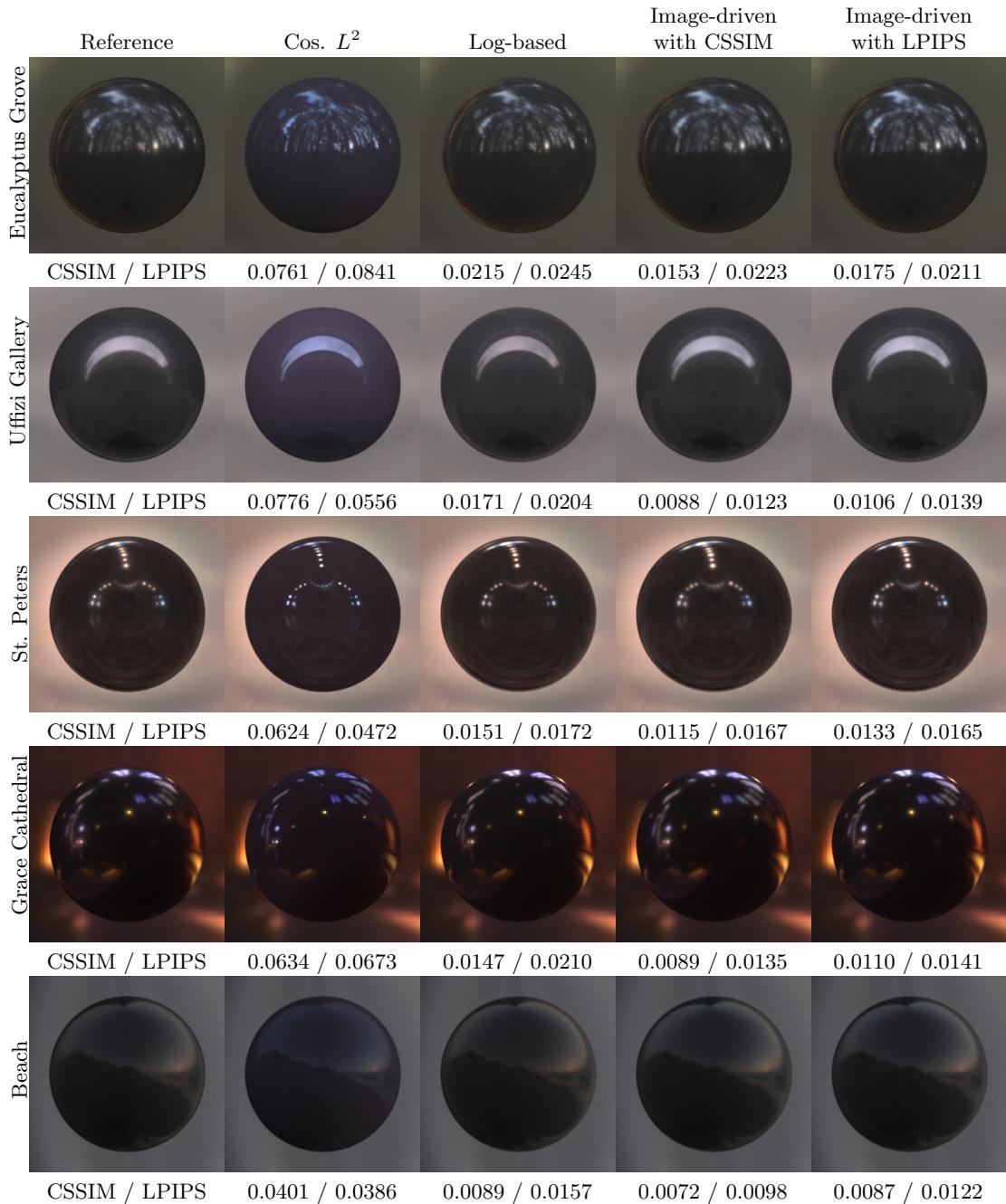
# green-metallic-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0000	0.0265	0.0351	0.2430	0.4094	0.4303	0.1972	2.4252
Log-based	0.0000	0.0183	0.0256	0.1669	0.3490	0.3703	0.1998	2.8951
Image-driven with CSSIM ( $\gamma = 2.0$ )	0.0000	0.0111	0.0181	0.1321	0.3543	0.3749	0.2085	2.9783
Image-driven with LPIPS ( $\gamma = 1.5$ )	0.0000	0.0146	0.0221	0.1638	0.3781	0.3998	0.2043	2.7429



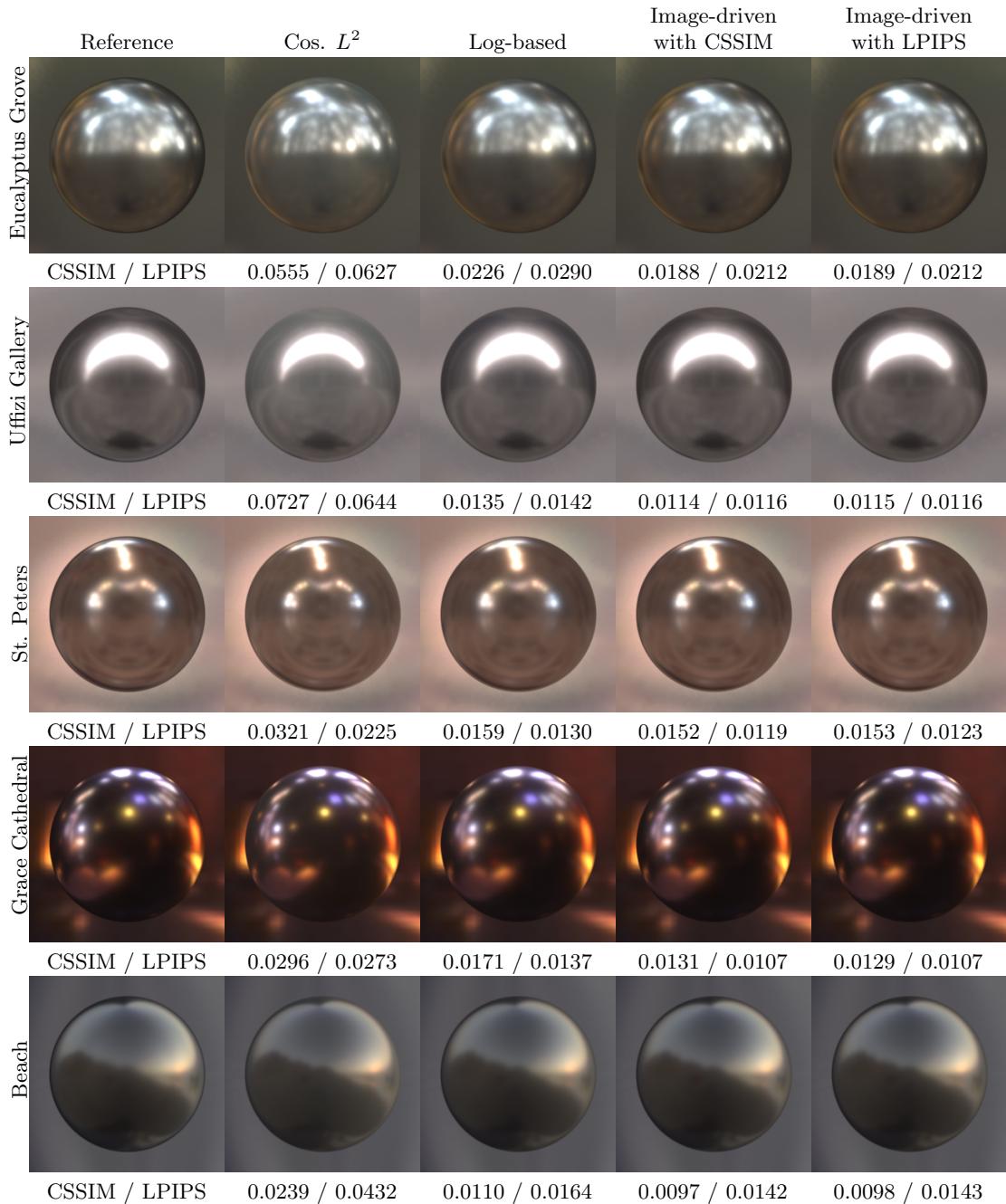
# silicon-nitrade

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0165	0.0122	0.0184	0.0234	0.0280	0.0444	0.0044	4.9959
Log-based	0.0091	0.0092	0.0095	0.2987	0.2516	0.2515	0.0113	1.5711
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.0067	0.0065	0.0068	0.2230	0.2094	0.2251	0.0172	1.8316
Image-driven with LPIPS ( $\gamma = 2.7$ )	0.0068	0.0067	0.0070	0.2402	0.2238	0.2463	0.0144	1.8145



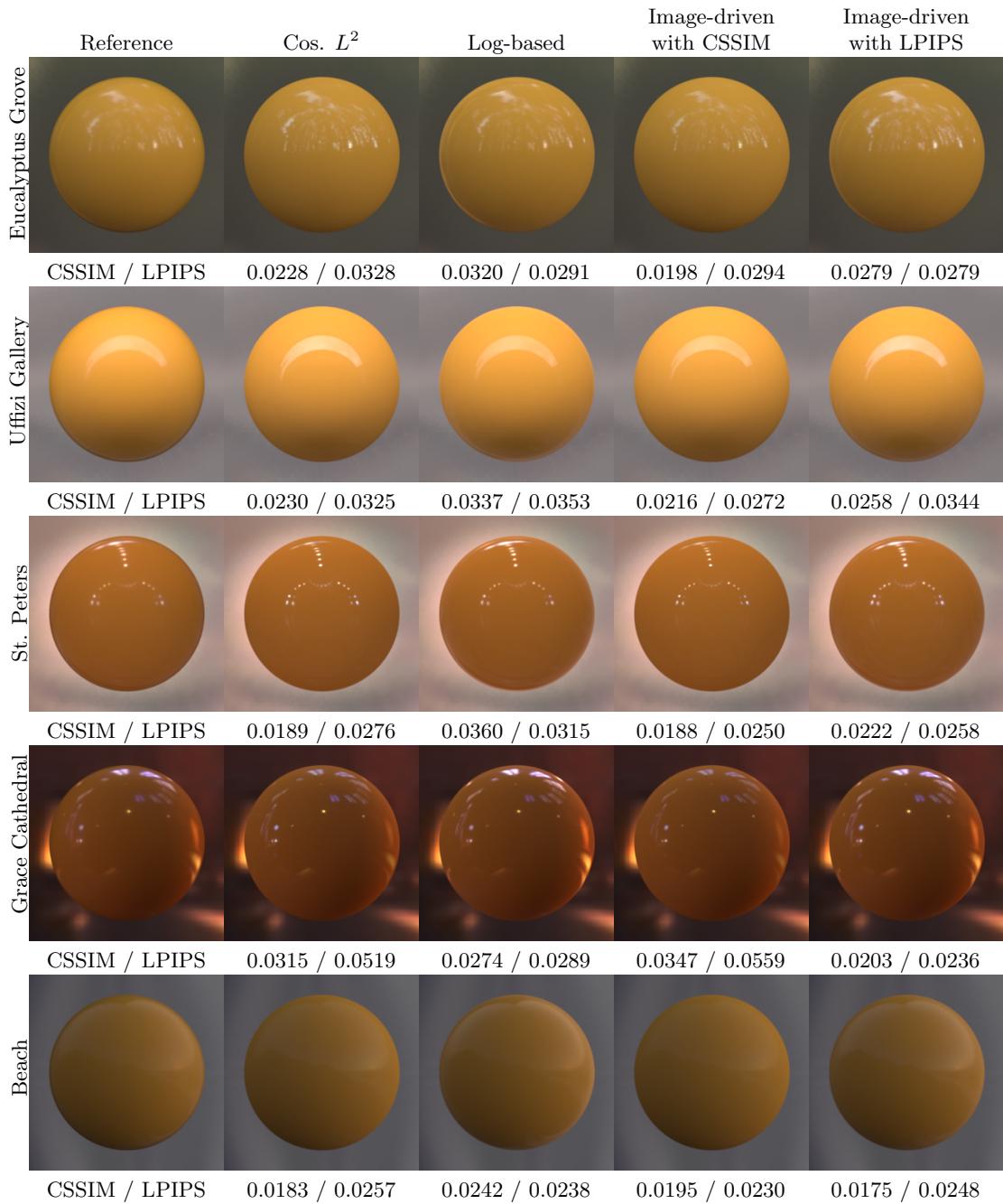
# nickel

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0287	0.0313	0.0264	0.5502	0.4716	0.4210	0.0455	3.8050
Log-based	0.0037	0.0046	0.0058	0.4747	0.4208	0.3690	0.0579	4.9960
Image-driven with CSSIM ( $\gamma = 2.0$ )	0.0021	0.0016	0.0016	0.4796	0.4283	0.3798	0.0542	4.9960
Image-driven with LPIPS ( $\gamma = 1.9$ )	0.0022	0.0017	0.0017	0.4797	0.4272	0.3779	0.0538	4.9960



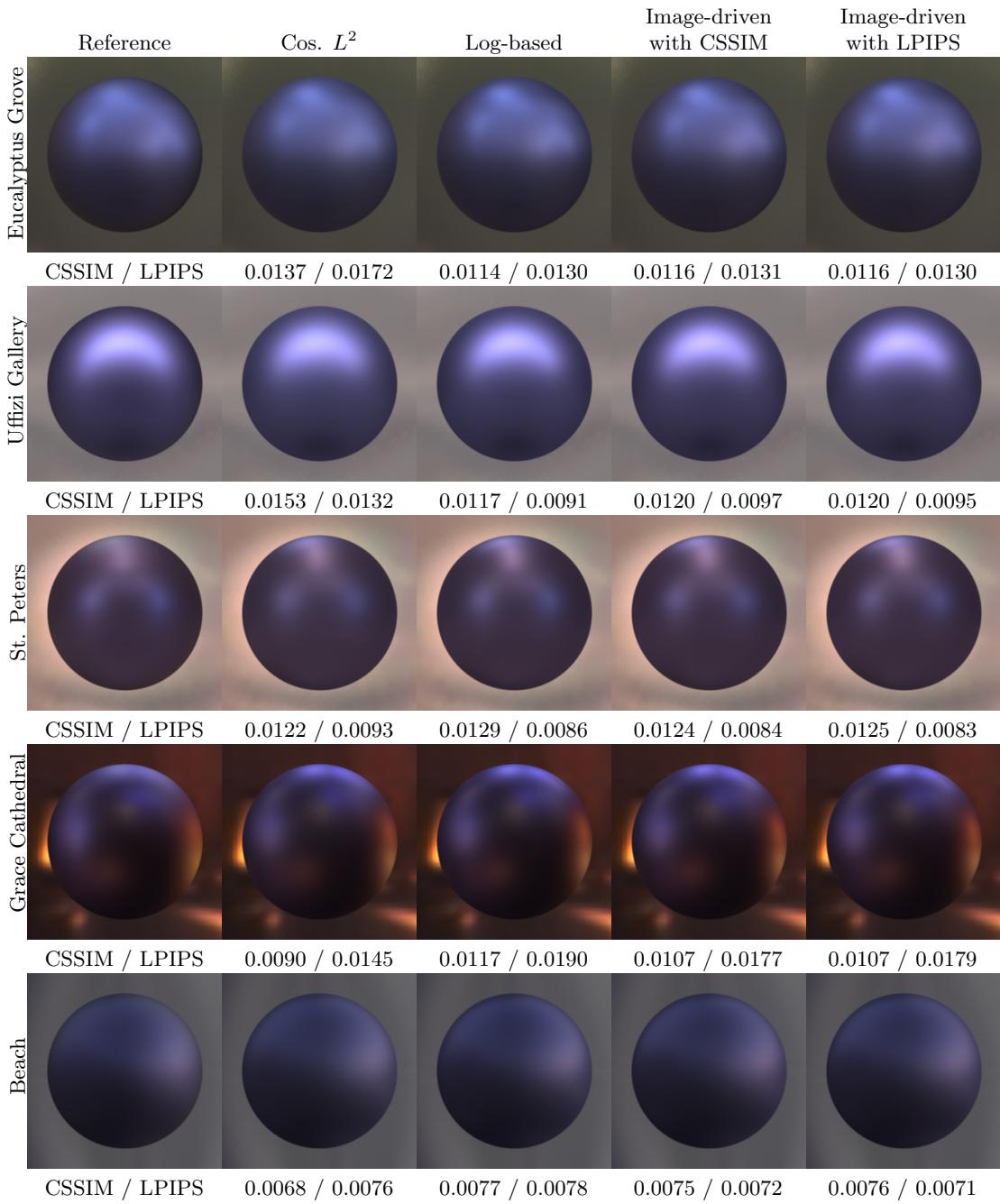
# specular-yellow-phenolic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.3166	0.1374	0.0157	0.0189	0.0233	0.0222	0.0037	4.9959
Log-based	0.3090	0.1353	0.0147	0.5229	0.4079	0.3861	0.0070	1.2882
Image-driven with CSSIM ( $\gamma = 1.2$ )	0.3162	0.1388	0.0164	0.0135	0.0165	0.0158	0.0031	4.9960
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.3083	0.1348	0.0140	0.2096	0.1915	0.2122	0.0071	1.6010



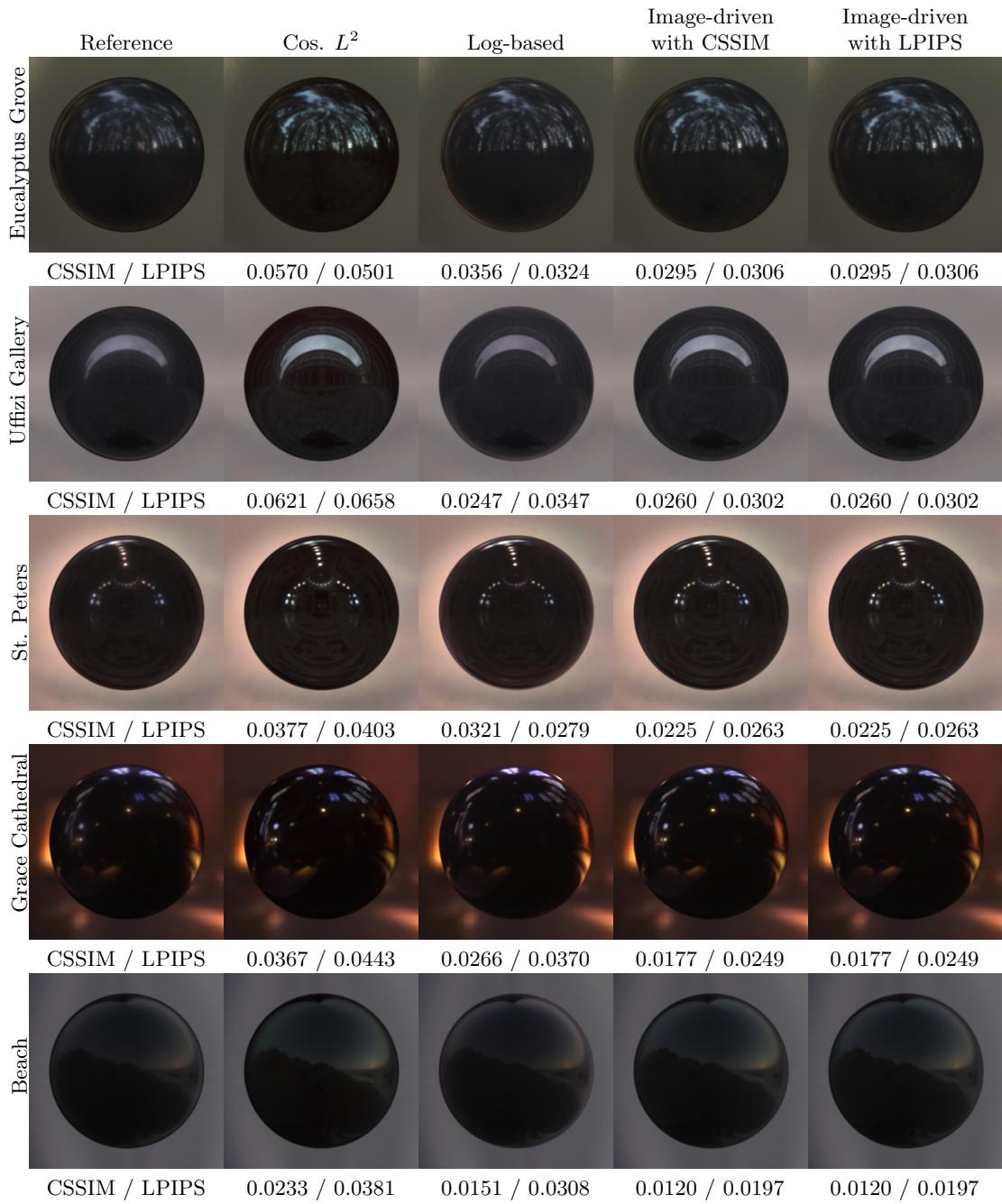
# blue-metallic-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0000	0.0000	0.0000	0.1545	0.1451	0.3513	0.2343	4.9960
Log-based	0.0003	0.0000	0.0000	0.1437	0.1342	0.3375	0.2142	4.9960
Image-driven with CSSIM ( $\gamma = 2.4$ )	0.0000	0.0000	0.0000	0.1513	0.1344	0.3360	0.2181	4.9869
Image-driven with LPIPS ( $\gamma = 2.5$ )	0.0000	0.0000	0.0000	0.1549	0.1372	0.3433	0.2175	4.8483



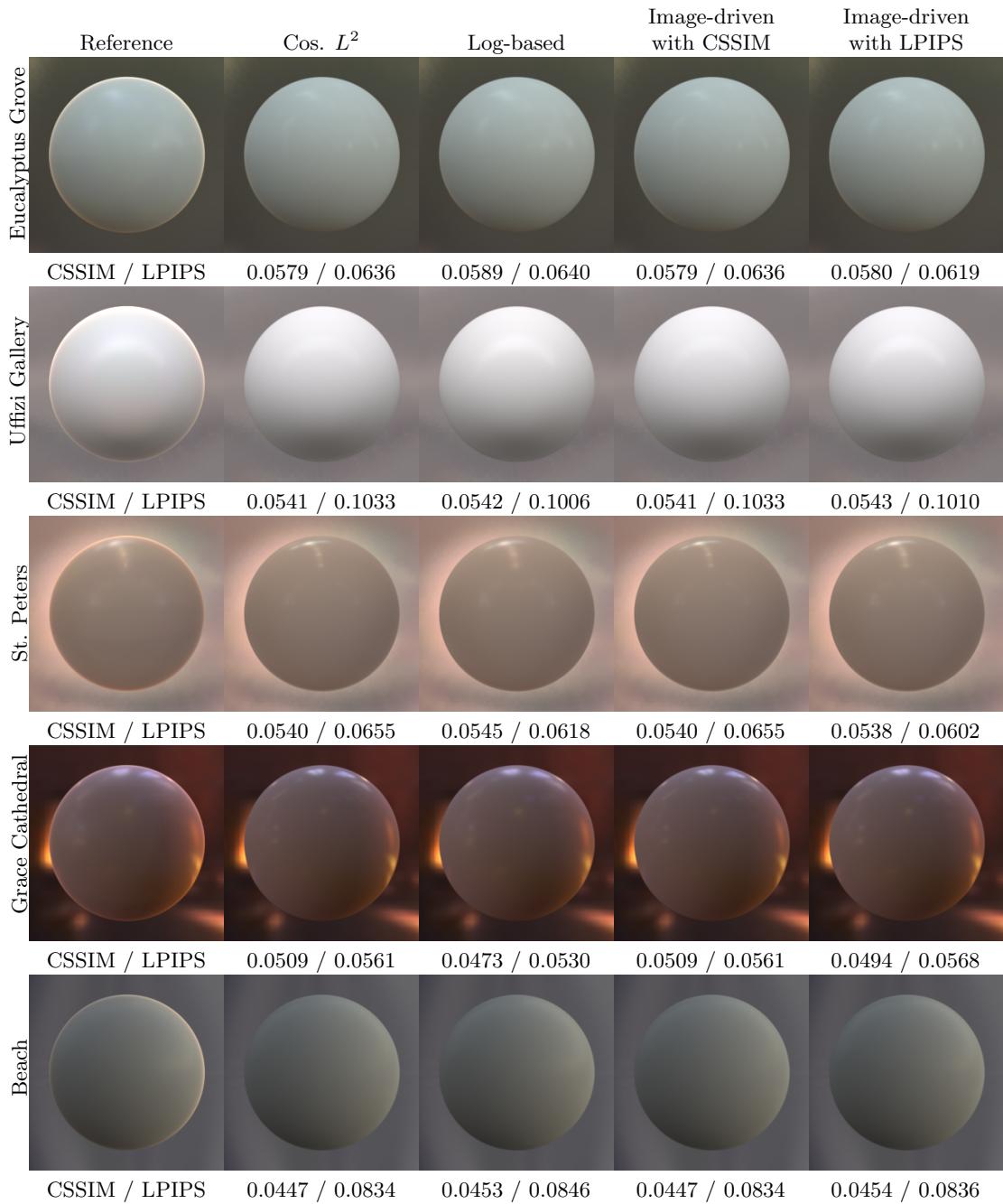
# specular-black-phenolic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0019	0.0000	0.0000	0.0283	0.0356	0.0349	0.0045	4.9959
Log-based	0.0034	0.0036	0.0041	0.3733	0.3245	0.3720	0.0059	1.3124
Image-driven with CSSIM ( $\gamma = 2.3$ )	0.0024	0.0025	0.0029	0.1020	0.1074	0.1114	0.0057	2.0118
Image-driven with LPIPS ( $\gamma = 2.3$ )	0.0024	0.0025	0.0029	0.1020	0.1074	0.1114	0.0057	2.0118



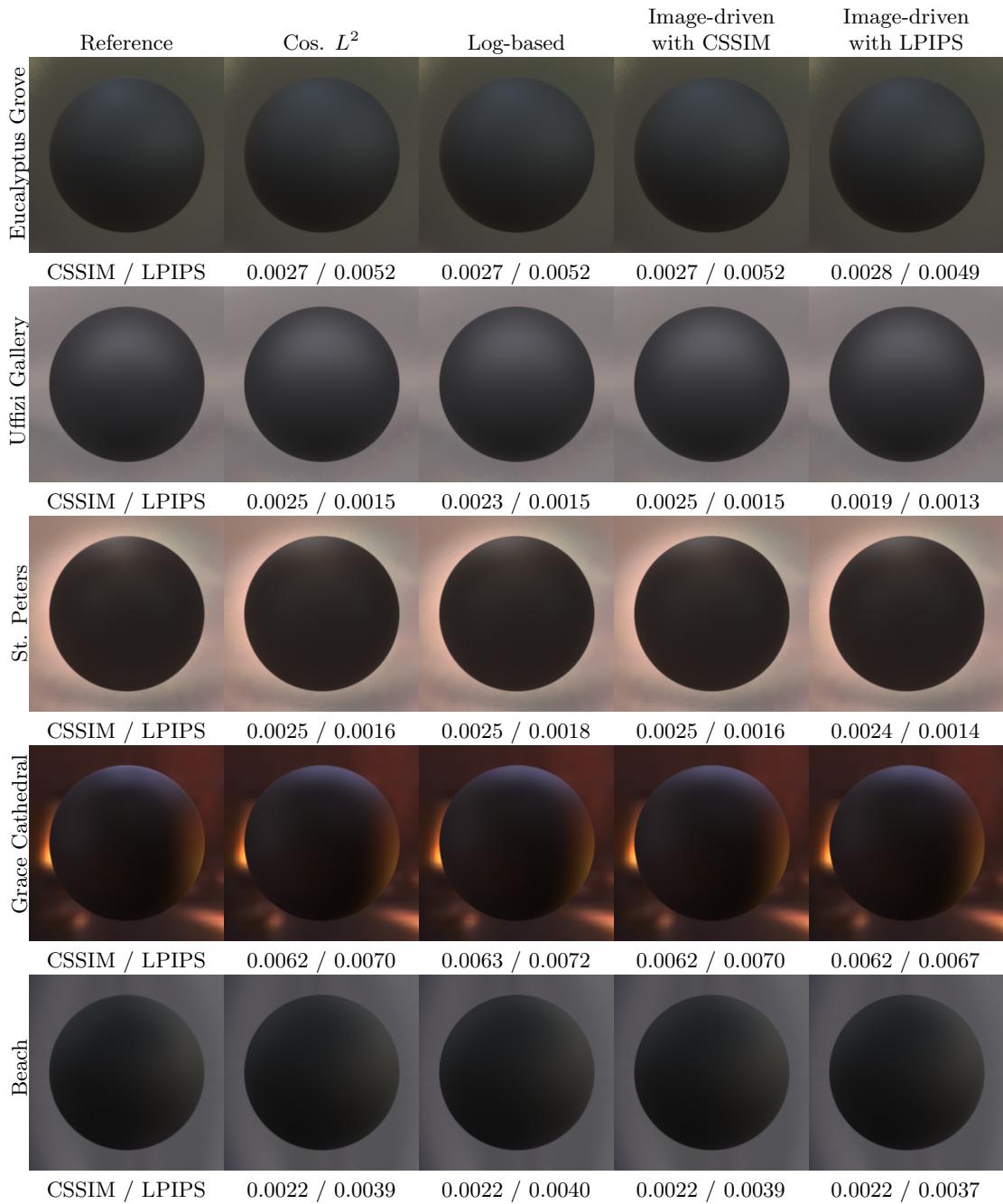
# nylon

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2427	0.2425	0.2176	0.2644	0.2976	0.2562	0.0416	1.1913
Log-based	0.2426	0.2417	0.2140	0.2378	0.2312	0.2230	0.0667	1.3548
Image-driven with CSSIM ( $\gamma = 1.0$ )	0.2427	0.2425	0.2176	0.2644	0.2976	0.2562	0.0416	1.1913
Image-driven with LPIPS ( $\gamma = 1.4$ )	0.2386	0.2395	0.2149	0.2687	0.2681	0.2476	0.0531	1.2903



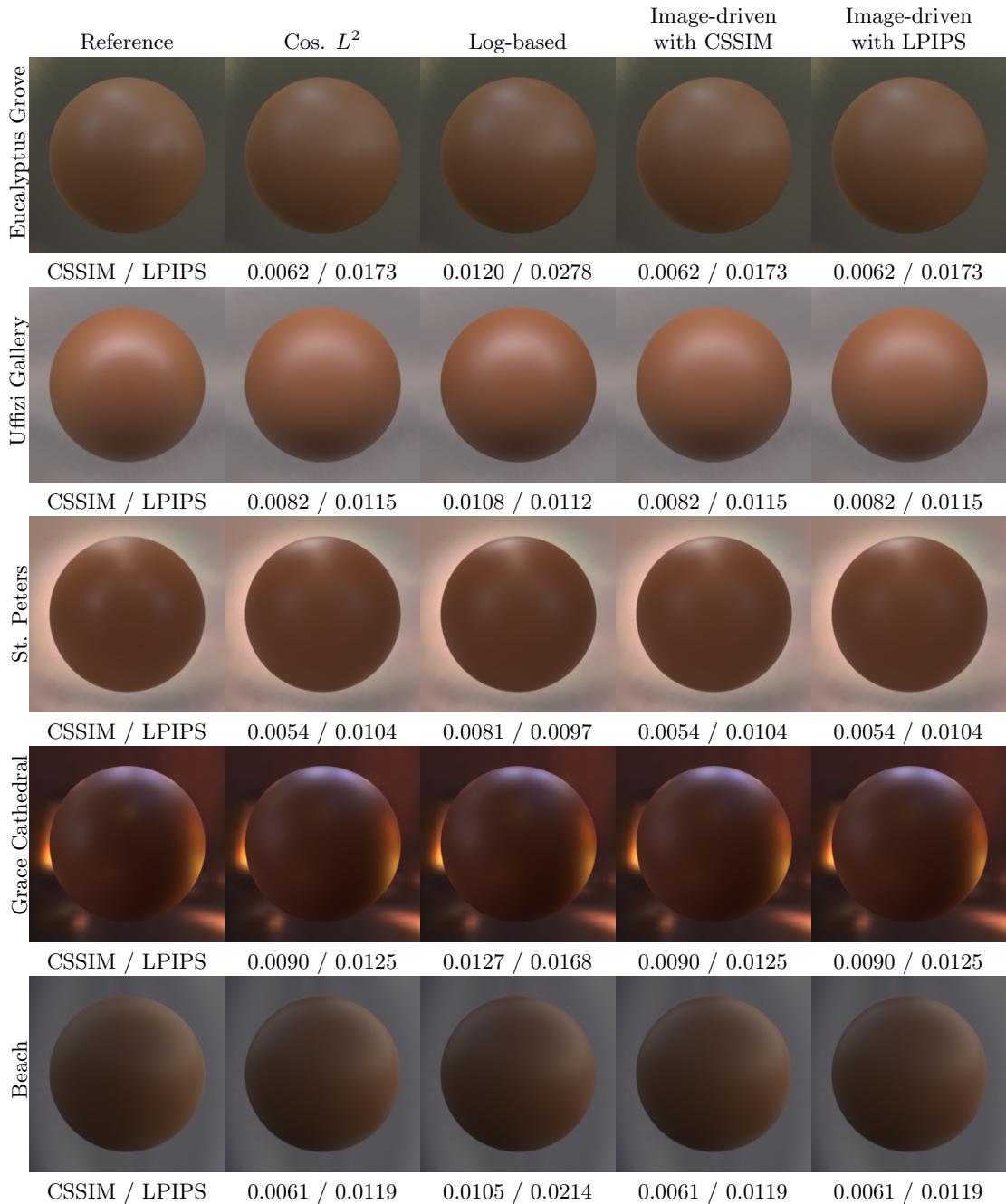
# black-soft-plastic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0000	0.0000	0.0000	0.5334	0.5276	0.5318	0.4381	1.5547
Log-based	0.0023	0.0023	0.0023	0.5570	0.5531	0.5531	0.4301	1.4859
Image-driven with CSSIM ( $\gamma = 1.0$ )	0.0000	0.0000	0.0000	0.5334	0.5276	0.5318	0.4381	1.5547
Image-driven with LPIPS ( $\gamma = 2.1$ )	0.0009	0.0006	0.0006	0.5761	0.5773	0.5824	0.4243	1.4826



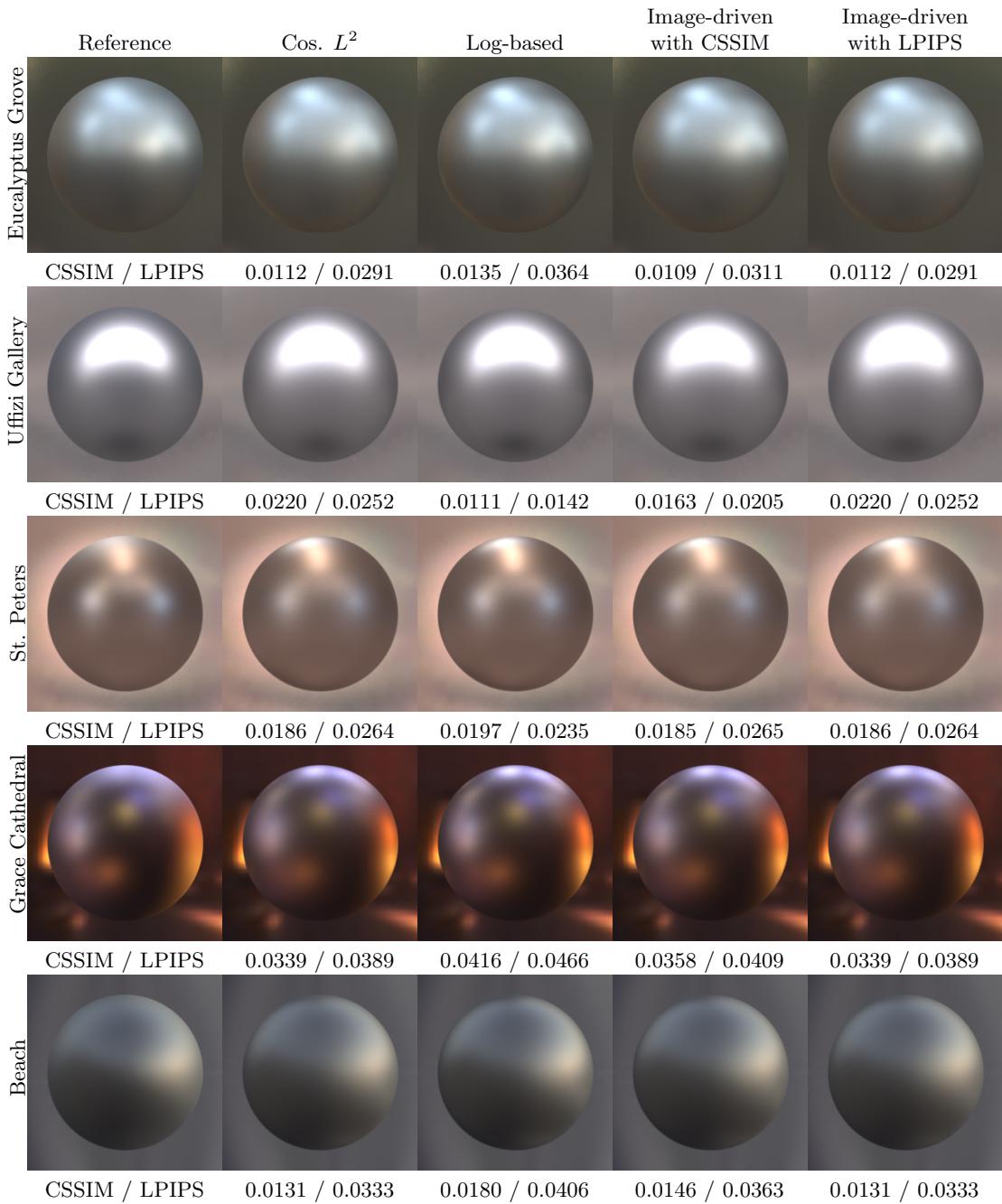
# natural-209

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0918	0.0326	0.0107	0.8733	0.8559	0.8218	0.2186	1.3270
Log-based	0.0834	0.0274	0.0077	0.6066	0.5752	0.5431	0.2129	1.4668
Image-driven with CSSIM ( $\gamma = 1.0$ )	0.0918	0.0326	0.0107	0.8733	0.8559	0.8218	0.2186	1.3270
Image-driven with LPIPS ( $\gamma = 1.0$ )	0.0918	0.0326	0.0107	0.8733	0.8559	0.8218	0.2186	1.3270



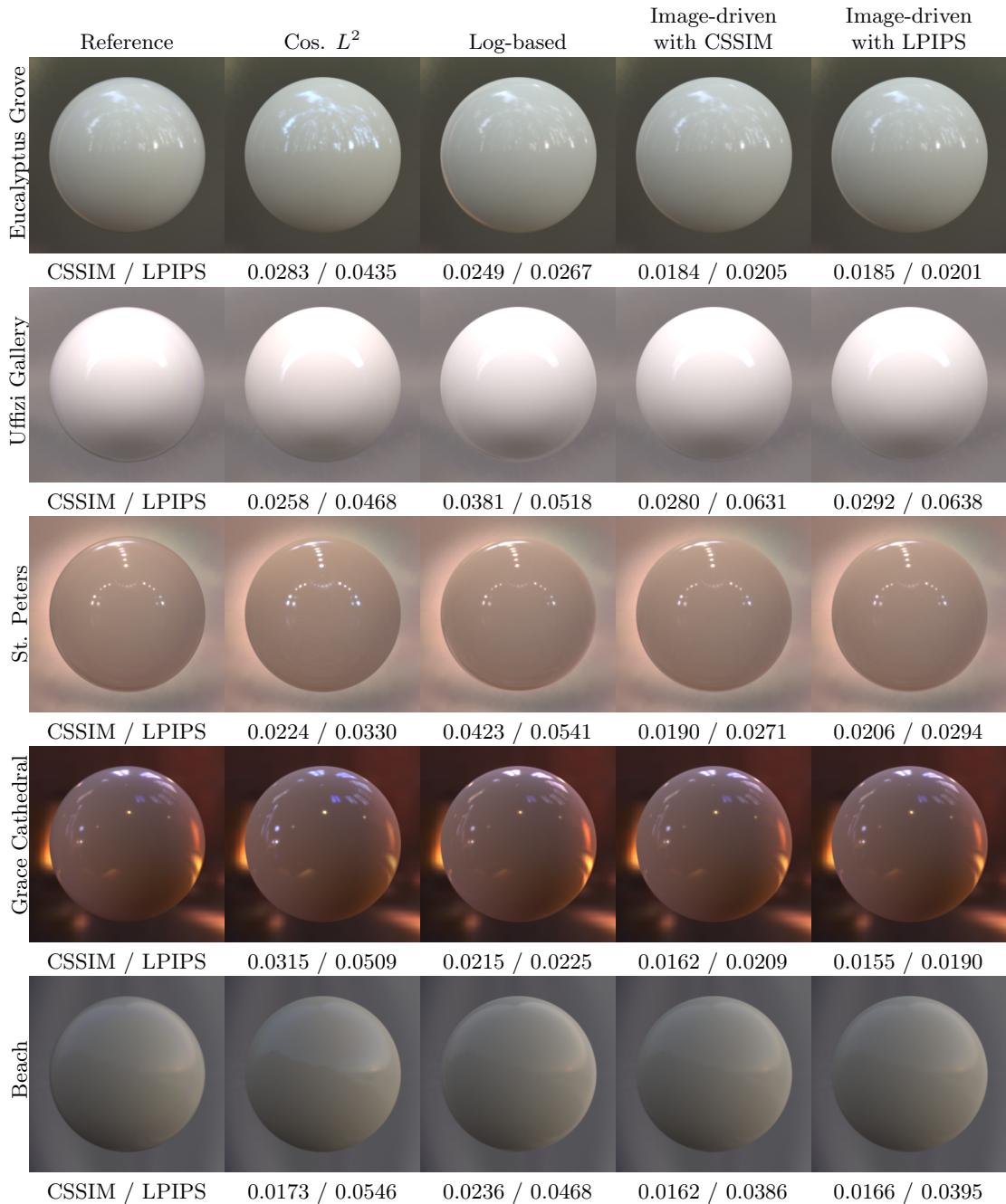
# silver-metallic-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0000	0.0000	0.0000	0.6059	0.5922	0.5789	0.2123	4.9960
Log-based	0.0000	0.0000	0.0000	0.5929	0.5797	0.5686	0.1905	4.9960
Image-driven with CSSIM ( $\gamma = 1.2$ )	0.0000	0.0000	0.0000	0.5915	0.5796	0.5677	0.2063	4.9960
Image-driven with LPIPS ( $\gamma = 1.0$ )	0.0000	0.0000	0.0000	0.6059	0.5922	0.5789	0.2123	4.9960



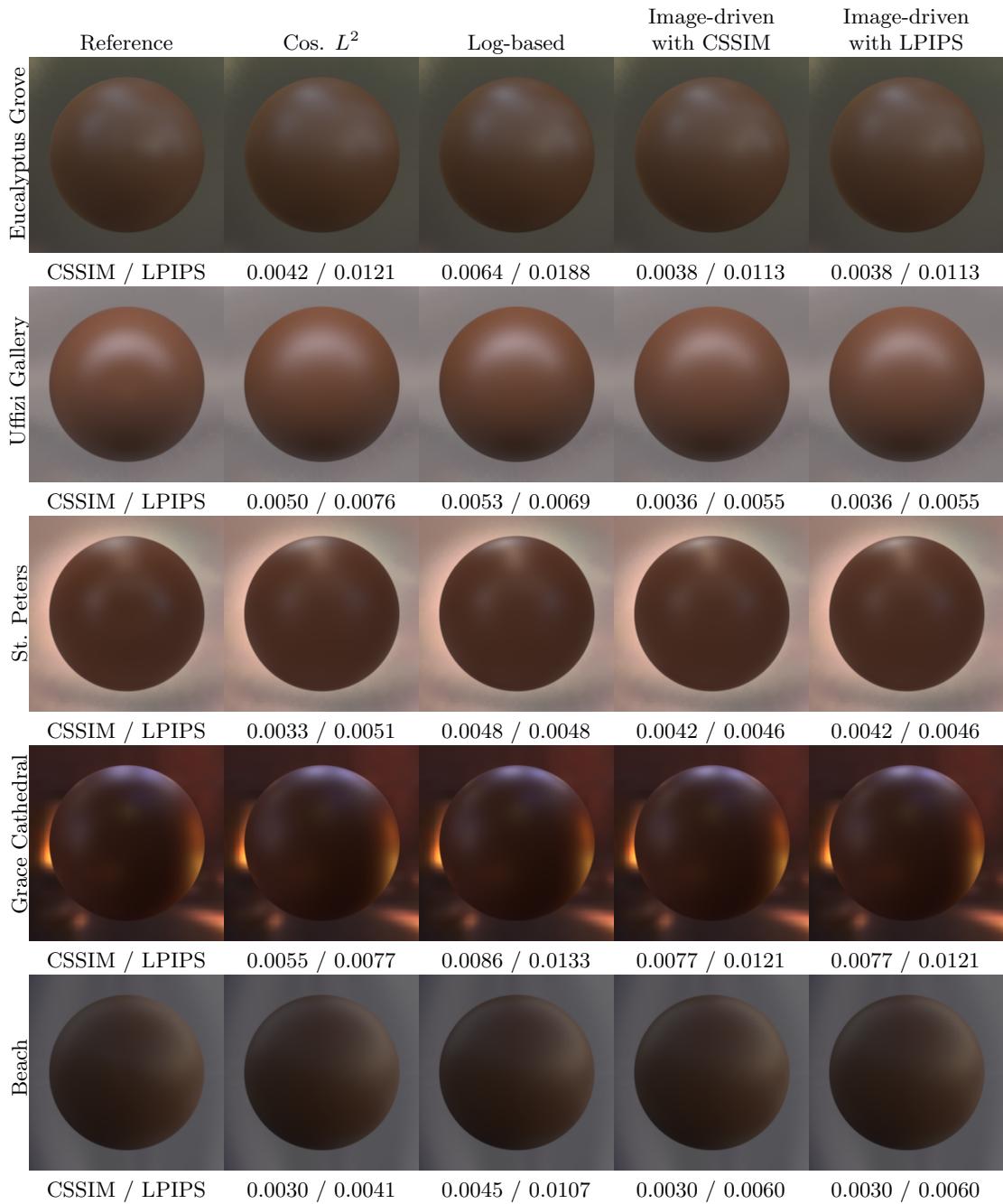
# alumina-oxide

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.3166	0.2865	0.2429	0.0522	0.0713	0.1161	0.0077	3.6445
Log-based	0.3129	0.2909	0.2555	0.6637	0.5548	0.5973	0.0077	1.3121
Image-driven with CSSIM ( $\gamma = 2.5$ )	0.3126	0.2891	0.2534	0.2224	0.2134	0.2691	0.0084	1.6318
Image-driven with LPIPS ( $\gamma = 2.7$ )	0.3123	0.2887	0.2531	0.2658	0.2493	0.3039	0.0086	1.5573



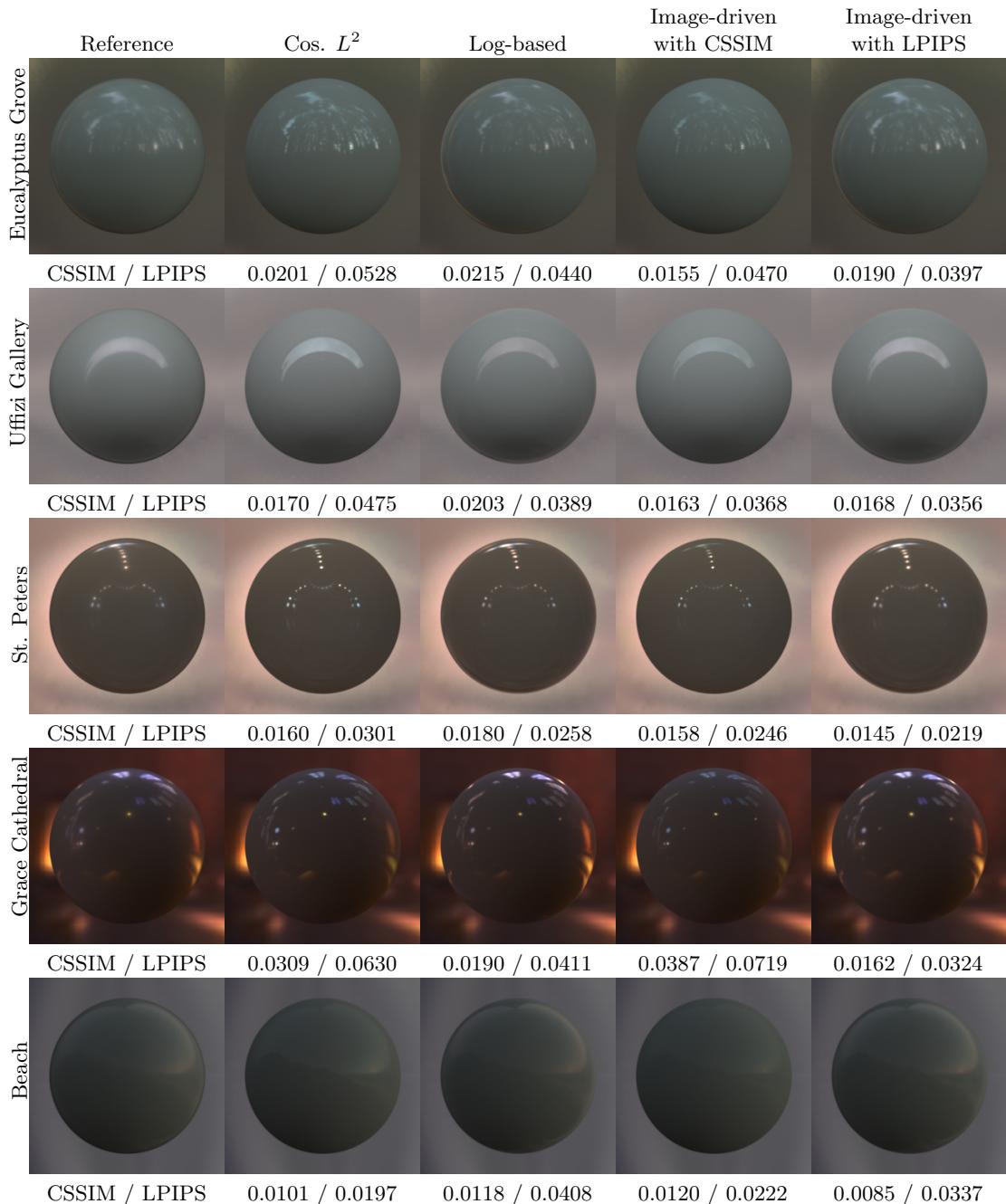
# ipswich-pine-221

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0492	0.0158	0.0038	0.4966	0.4892	0.4900	0.2201	1.5020
Log-based	0.0485	0.0158	0.0041	0.3503	0.3448	0.3448	0.1969	1.6322
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.0519	0.0184	0.0070	0.4433	0.4252	0.4023	0.1889	1.4984
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.0519	0.0184	0.0070	0.4433	0.4252	0.4023	0.1889	1.4984



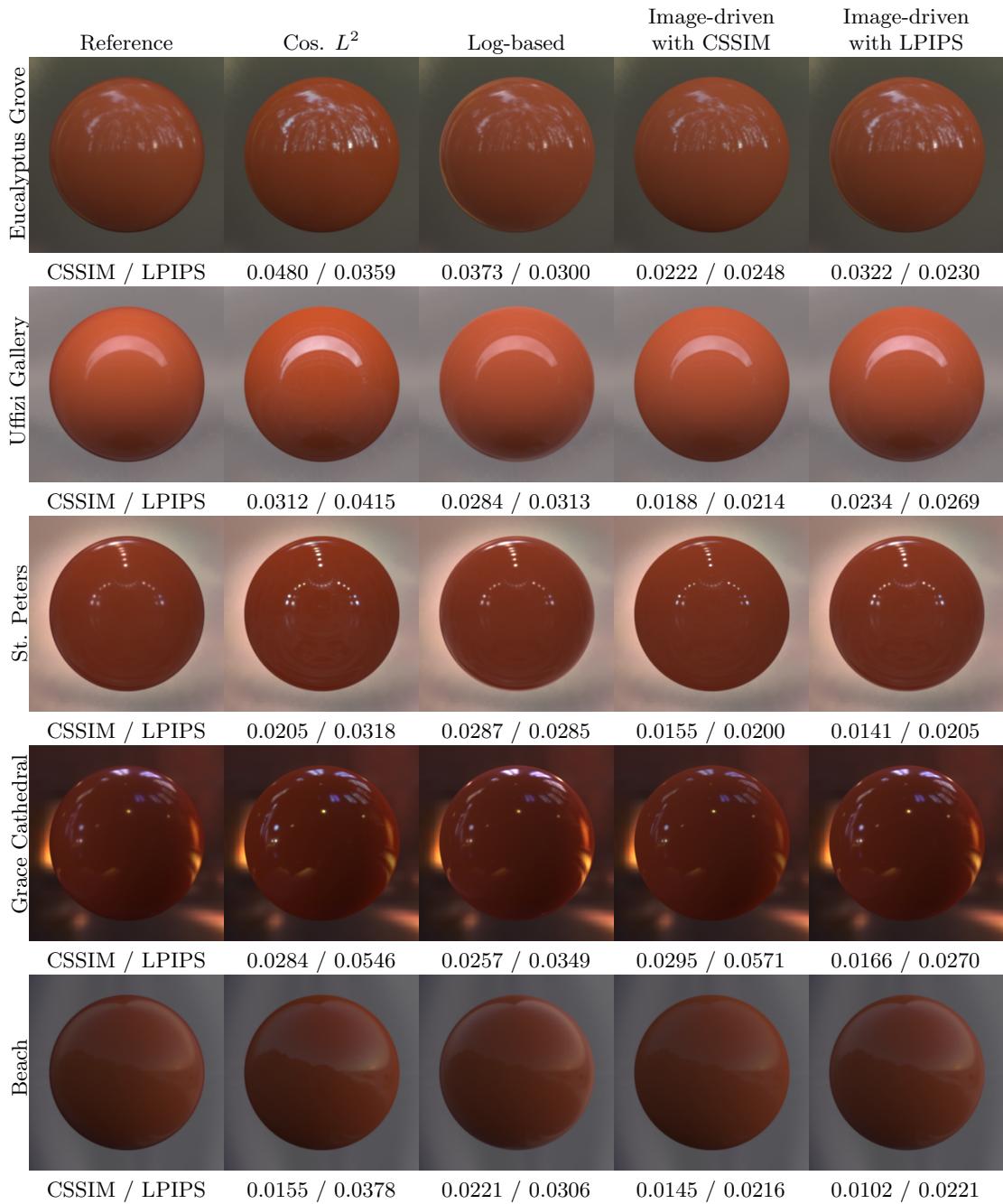
# aventurnine

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0586	0.0637	0.0556	0.0140	0.0185	0.0176	0.0039	4.9959
Log-based	0.0556	0.0629	0.0547	0.3346	0.2772	0.2687	0.0066	1.2784
Image-driven with CSSIM ( $\gamma = 1.2$ )	0.0587	0.0660	0.0578	0.0079	0.0104	0.0097	0.0029	4.9960
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.0559	0.0634	0.0549	0.2165	0.1998	0.2006	0.0101	1.4615



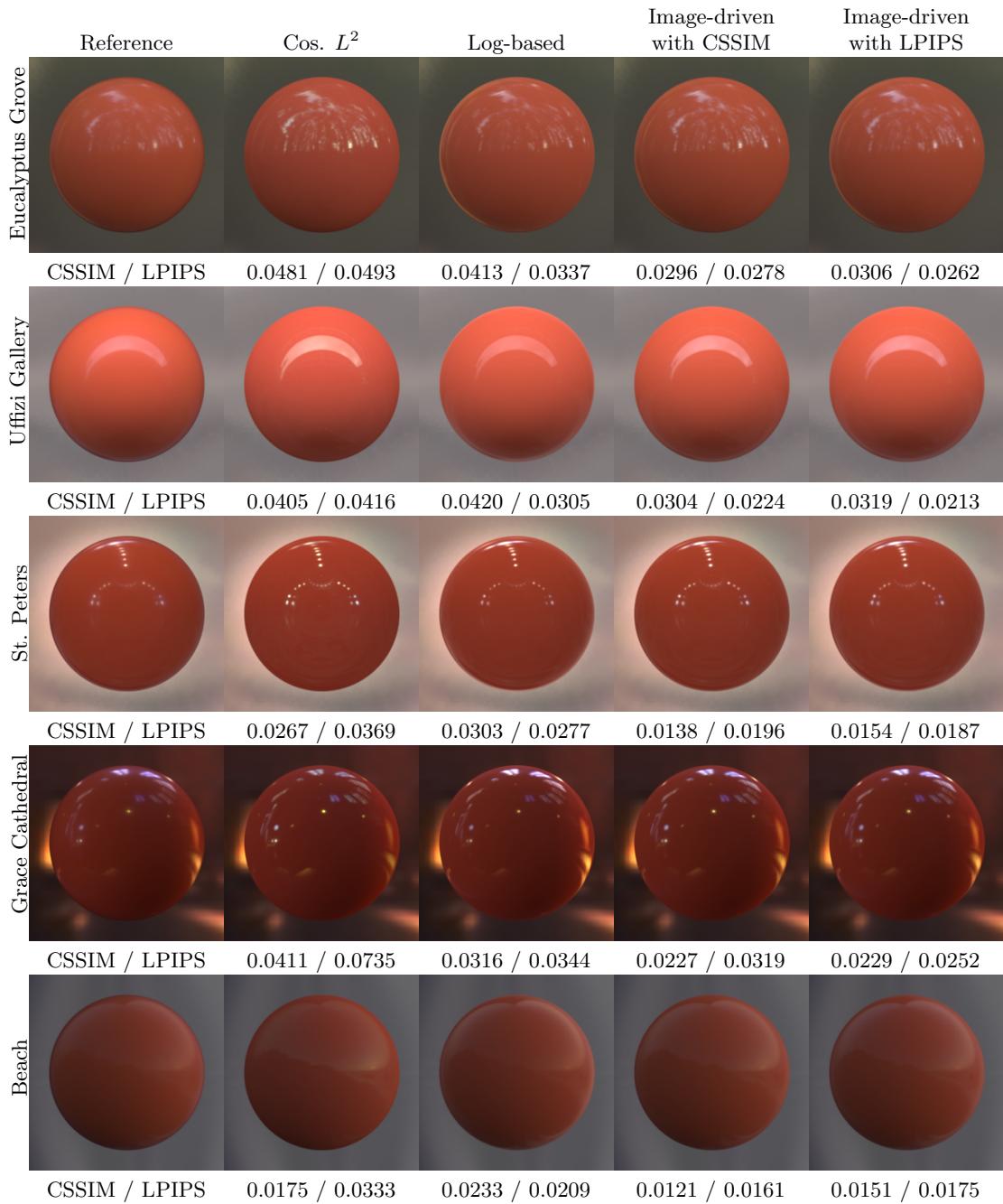
# specular-maroon-phenolic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1552	0.0220	0.0041	0.0321	0.0415	0.0433	0.0047	4.5050
Log-based	0.1533	0.0265	0.0084	0.5117	0.4217	0.4196	0.0071	1.2887
Image-driven with CSSIM ( $\gamma = 1.3$ )	0.1574	0.0279	0.0087	0.0196	0.0245	0.0261	0.0034	3.8517
Image-driven with LPIPS ( $\gamma = 2.6$ )	0.1539	0.0263	0.0076	0.1594	0.1578	0.1726	0.0064	1.7456



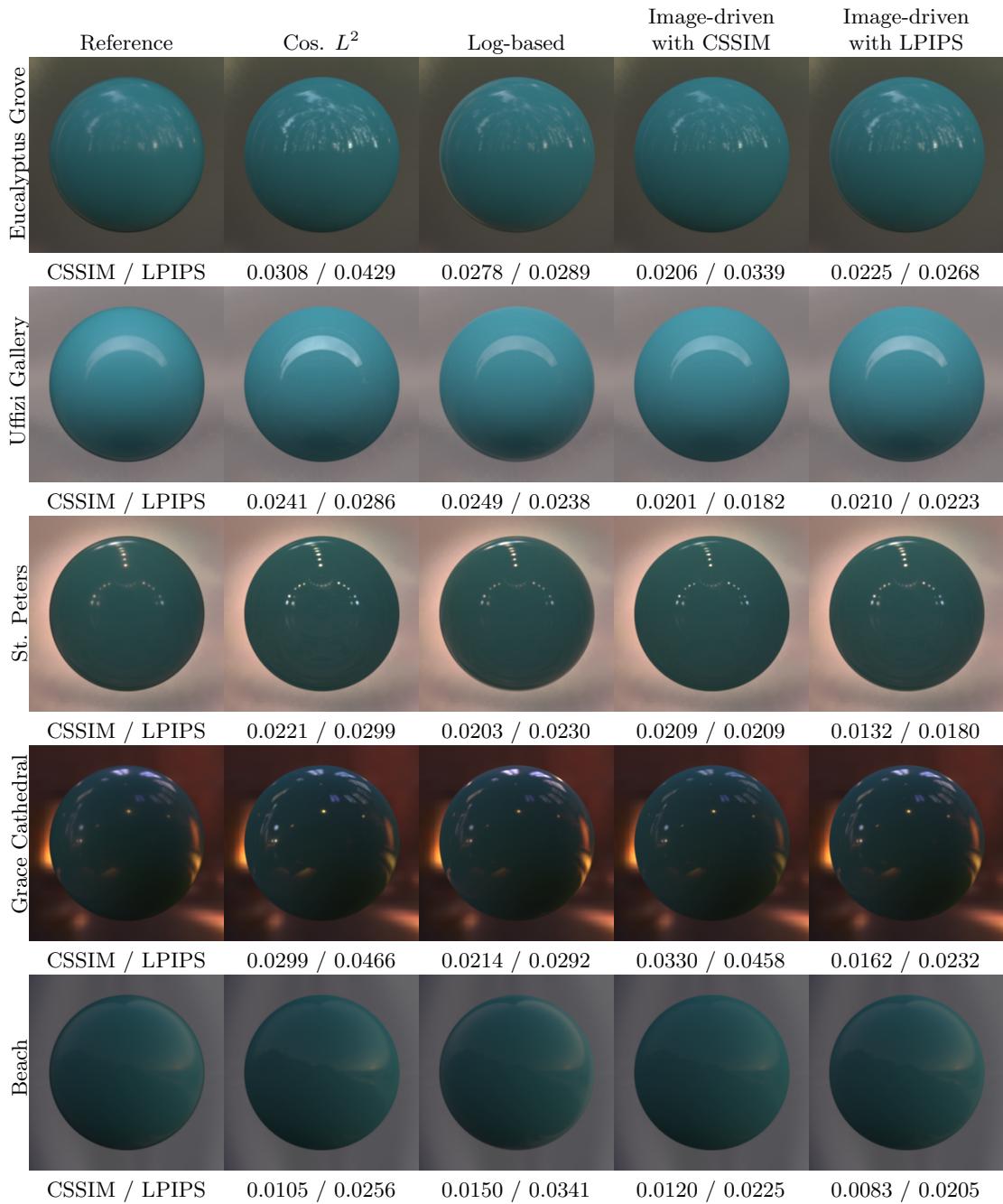
# red-specular-plastic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2502	0.0340	0.0170	0.0253	0.0331	0.0245	0.0048	4.9959
Log-based	0.2475	0.0368	0.0165	0.6730	0.5917	0.5629	0.0063	1.2008
Image-driven with CSSIM ( $\gamma = 2.5$ )	0.2475	0.0367	0.0156	0.1610	0.1762	0.1746	0.0070	1.5884
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.2465	0.0365	0.0153	0.2747	0.2989	0.3367	0.0090	1.3815



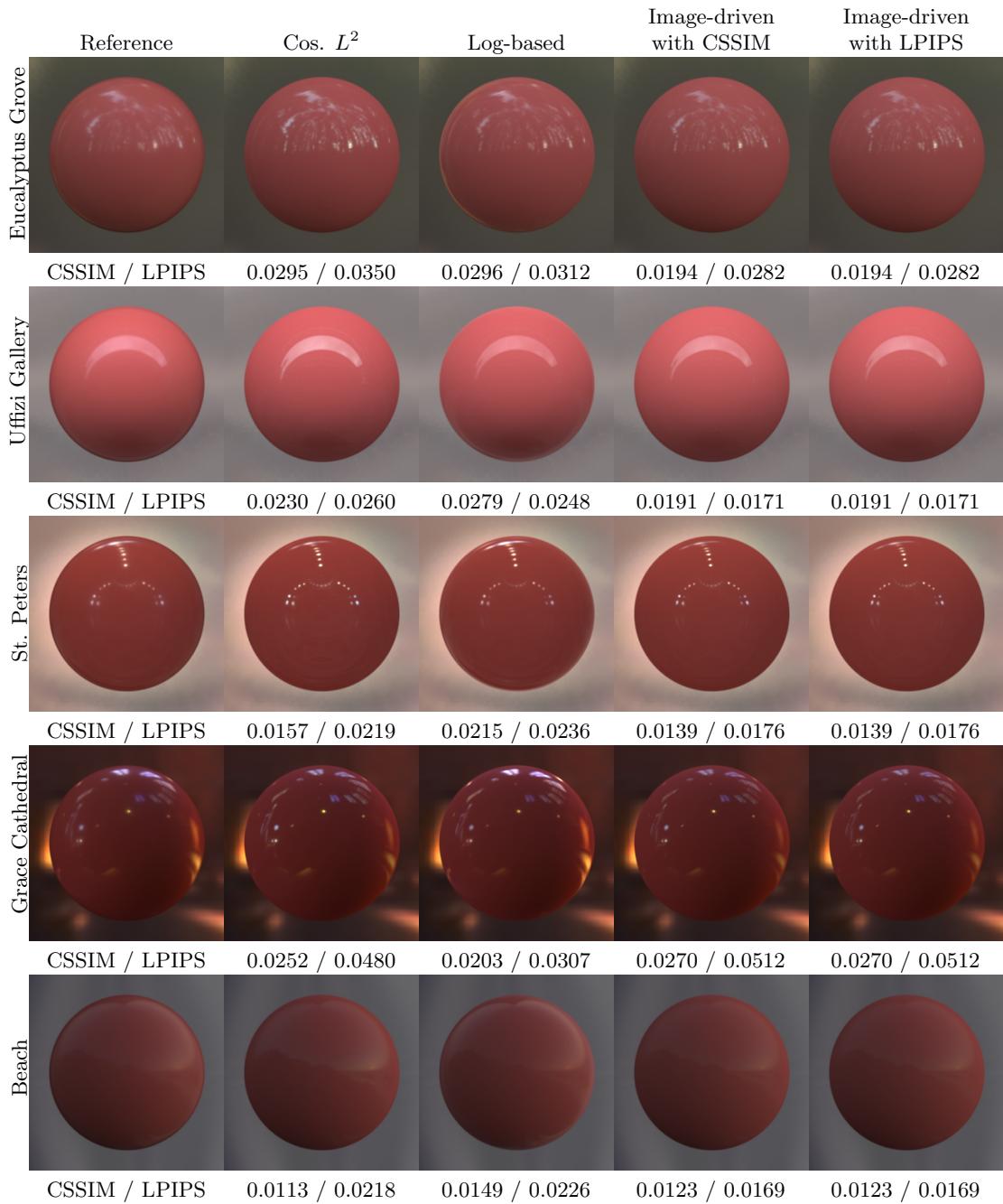
# green-plastic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0138	0.0795	0.0877	0.0287	0.0349	0.0332	0.0046	3.8727
Log-based	0.0148	0.0816	0.0889	0.3546	0.3034	0.2835	0.0058	1.2784
Image-driven with CSSIM ( $\gamma = 1.4$ )	0.0153	0.0838	0.0919	0.0216	0.0254	0.0240	0.0036	3.1162
Image-driven with LPIPS ( $\gamma = 2.4$ )	0.0143	0.0823	0.0903	0.1111	0.1057	0.1001	0.0058	1.7738



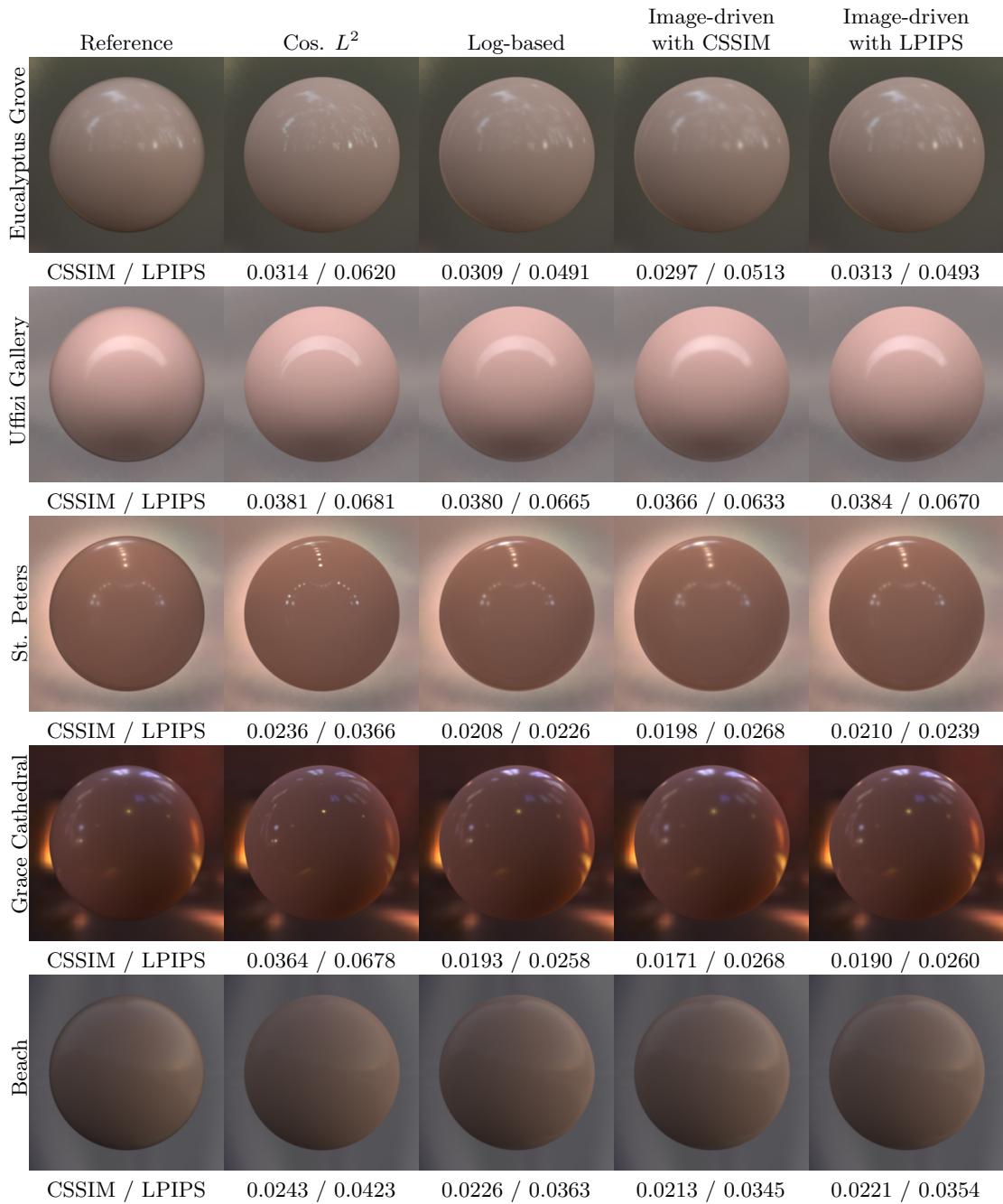
# maroon-plastic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1978	0.0340	0.0318	0.0221	0.0268	0.0254	0.0043	4.9957
Log-based	0.1957	0.0355	0.0330	0.3977	0.3318	0.3256	0.0067	1.3014
Image-driven with CSSIM ( $\gamma = 1.3$ )	0.1989	0.0369	0.0339	0.0166	0.0195	0.0190	0.0035	4.3360
Image-driven with LPIPS ( $\gamma = 1.3$ )	0.1989	0.0369	0.0339	0.0166	0.0195	0.0190	0.0035	4.3360



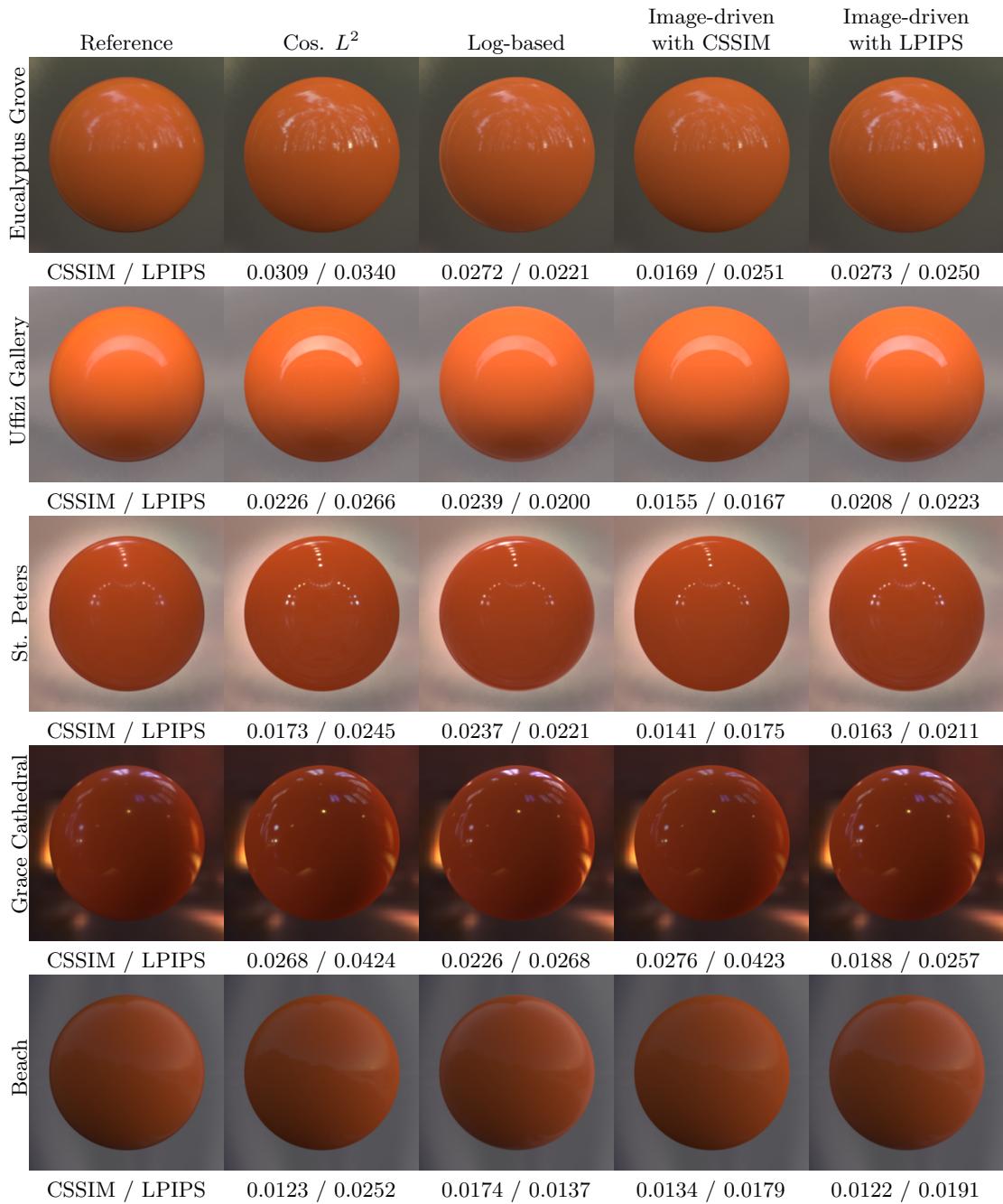
# pink-jasper

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2161	0.1346	0.1081	0.0310	0.0372	0.0361	0.0065	2.5694
Log-based	0.2047	0.1270	0.1010	0.2075	0.1971	0.1962	0.0187	1.4821
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.2036	0.1259	0.1002	0.1966	0.1993	0.1964	0.0301	1.5953
Image-driven with LPIPS ( $\gamma = 2.3$ )	0.2060	0.1277	0.1017	0.2036	0.2041	0.2024	0.0218	1.5566



# specular-orange-phenolic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.3322	0.0507	0.0053	0.0235	0.0292	0.0243	0.0038	4.9959
Log-based	0.3285	0.0532	0.0073	0.3557	0.3009	0.2904	0.0049	1.3131
Image-driven with CSSIM ( $\gamma = 1.3$ )	0.3336	0.0545	0.0073	0.0125	0.0154	0.0128	0.0028	4.9960
Image-driven with LPIPS ( $\gamma = 2.8$ )	0.3283	0.0529	0.0060	0.1306	0.1383	0.1506	0.0056	1.7336



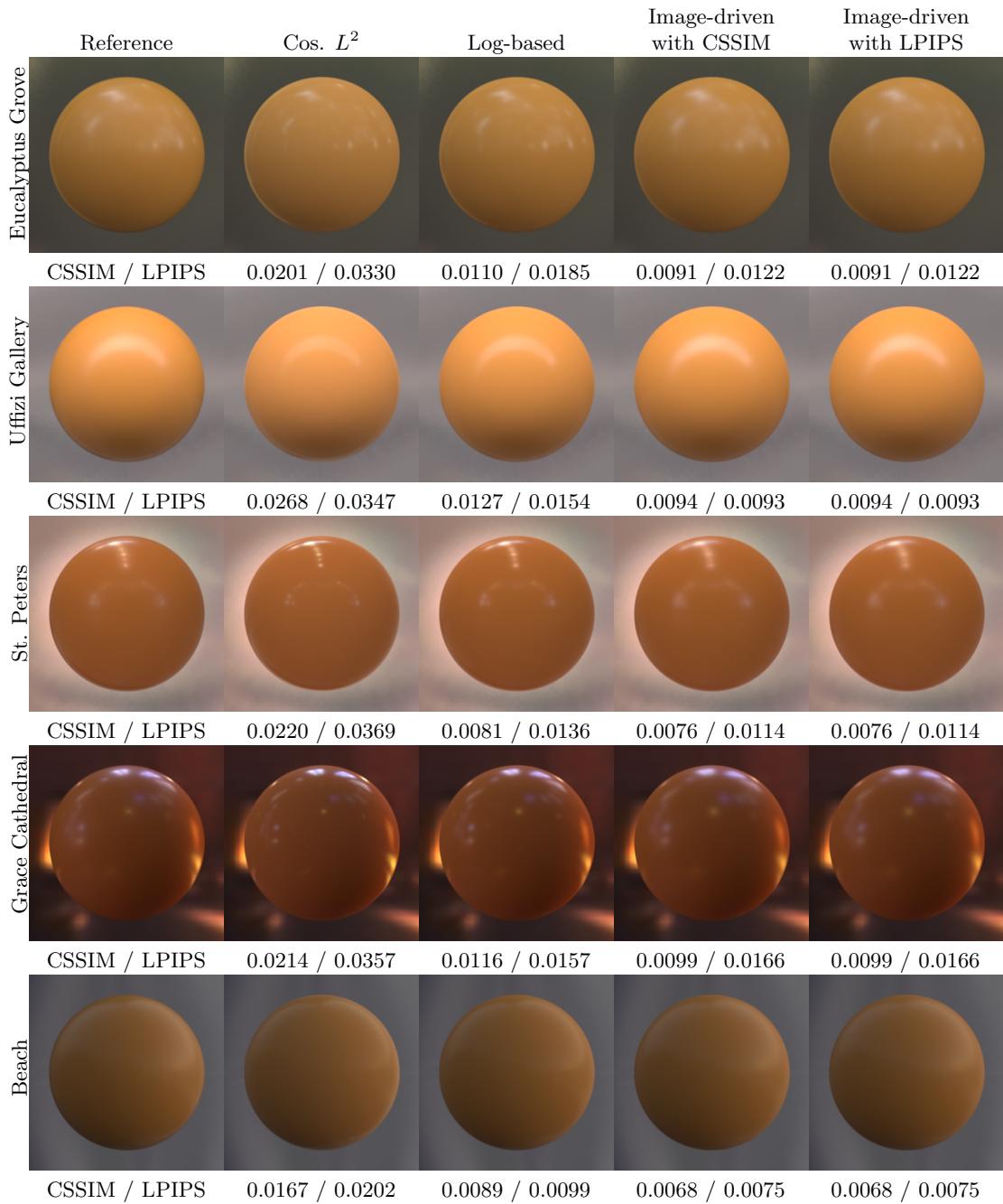
# black-phenolic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0109	0.0096	0.0118	0.0400	0.0441	0.0367	0.0094	2.7085
Log-based	0.0030	0.0031	0.0033	0.1494	0.1440	0.1456	0.0226	1.8551
Image-driven with CSSIM ( $\gamma = 2.2$ )	0.0016	0.0012	0.0009	0.1386	0.1399	0.1454	0.0251	2.0474
Image-driven with LPIPS ( $\gamma = 1.9$ )	0.0017	0.0014	0.0011	0.1353	0.1347	0.1368	0.0227	2.0586



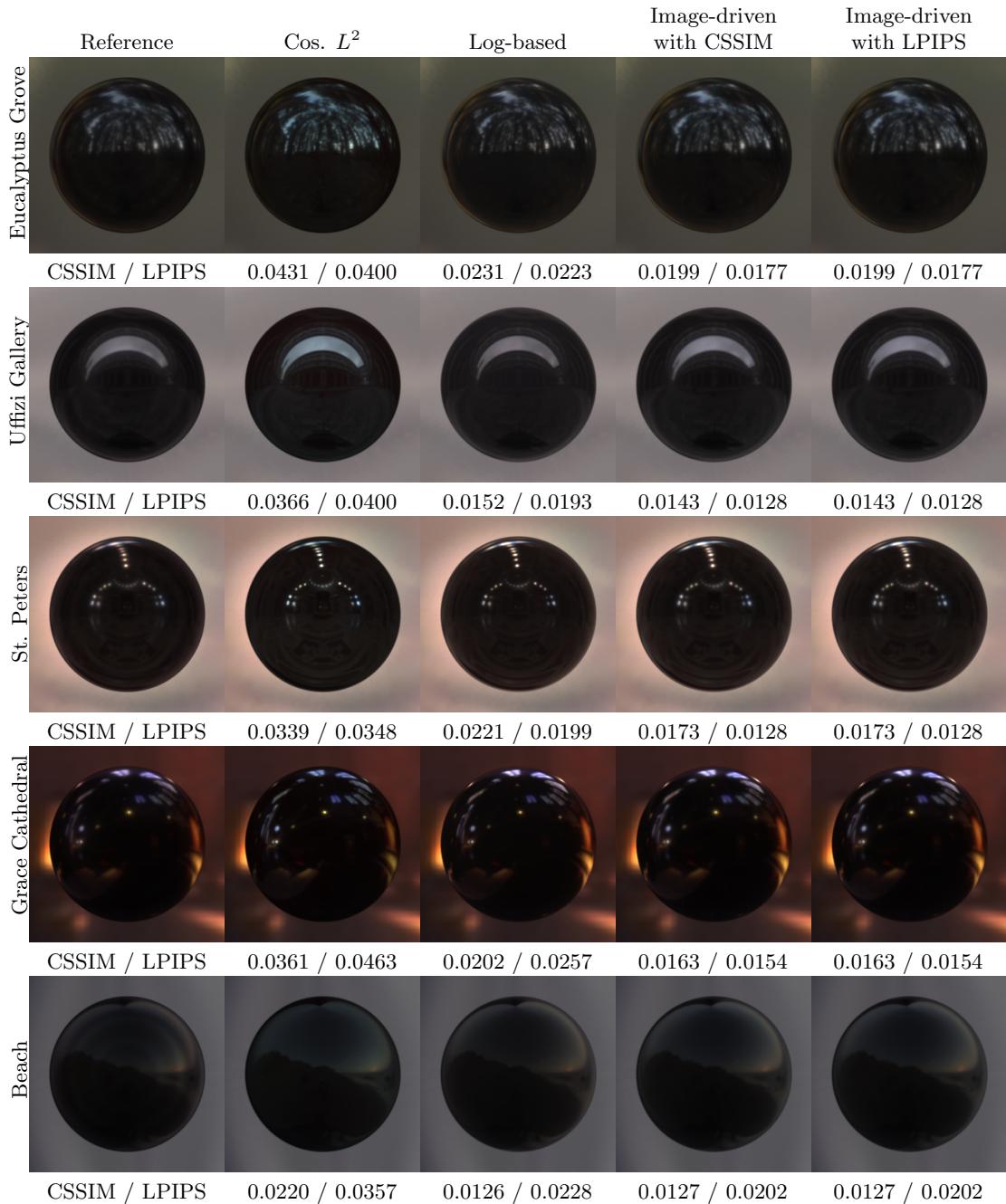
# yellow-matte-plastic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.3016	0.1213	0.0276	0.6611	0.7781	0.6985	0.0267	1.1430
Log-based	0.2935	0.1161	0.0220	0.3627	0.3422	0.3230	0.0411	1.3171
Image-driven with CSSIM ( $\gamma = 2.9$ )	0.2888	0.1121	0.0189	0.2997	0.2984	0.2961	0.0679	1.4845
Image-driven with LPIPS ( $\gamma = 2.9$ )	0.2888	0.1121	0.0189	0.2997	0.2984	0.2961	0.0679	1.4845



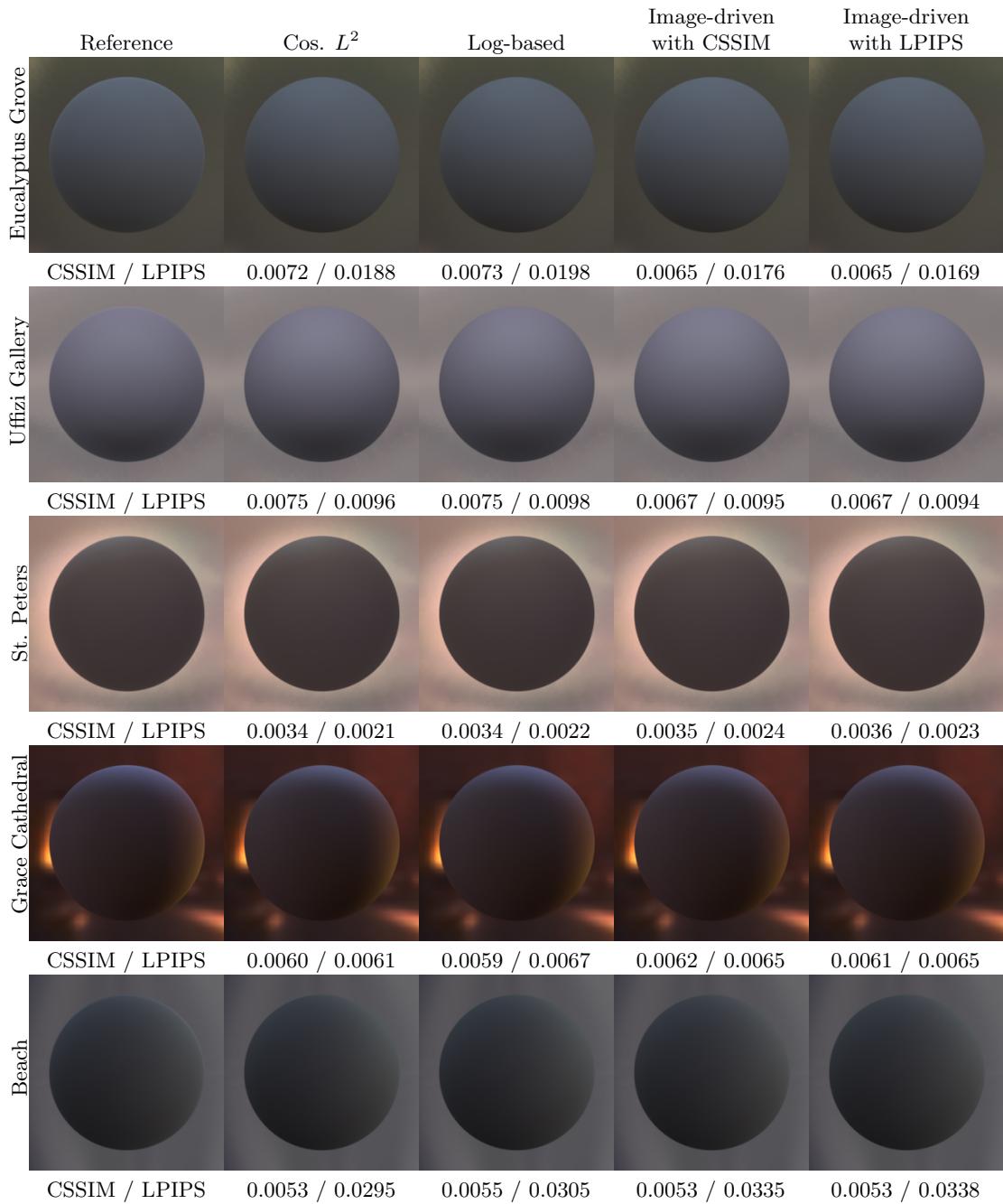
# black-obsidian

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0012	0.0000	0.0000	0.0279	0.0374	0.0386	0.0047	3.4905
Log-based	0.0013	0.0011	0.0012	0.2910	0.2603	0.2570	0.0066	1.3510
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.0003	0.0002	0.0002	0.2078	0.2046	0.2126	0.0105	1.5082
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.0003	0.0002	0.0002	0.2078	0.2046	0.2126	0.0105	1.5082



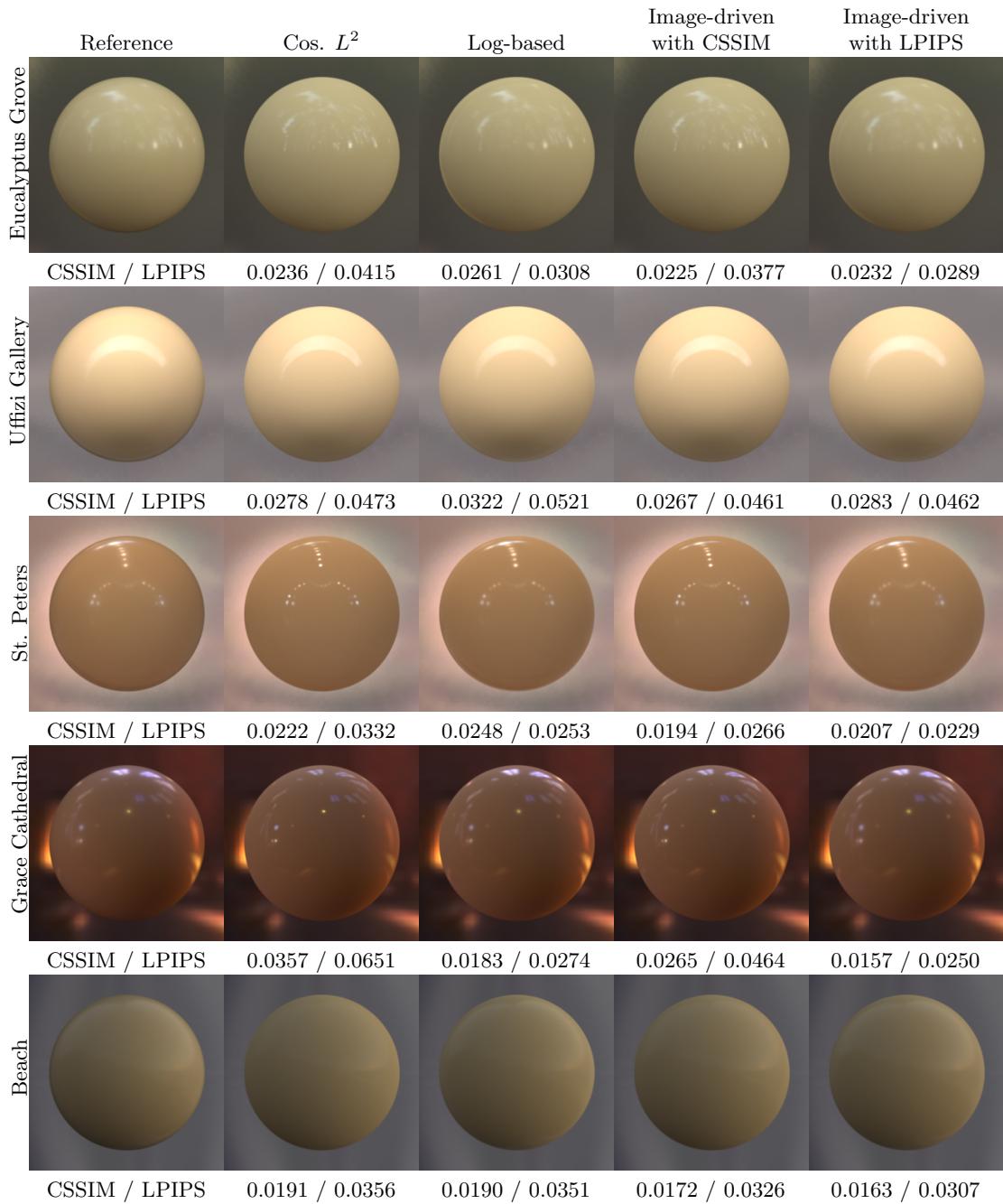
# green-fabric

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0406	0.0356	0.0449	0.7022	0.9997	1.0000	0.5498	1.3579
Log-based	0.0394	0.0341	0.0420	0.6719	0.9481	0.9999	0.5734	1.3917
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.0378	0.0331	0.0421	0.7610	1.0000	1.0000	0.6292	1.4239
Image-driven with LPIPS ( $\gamma = 2.9$ )	0.0379	0.0332	0.0422	0.7602	1.0000	1.0000	0.6272	1.4218



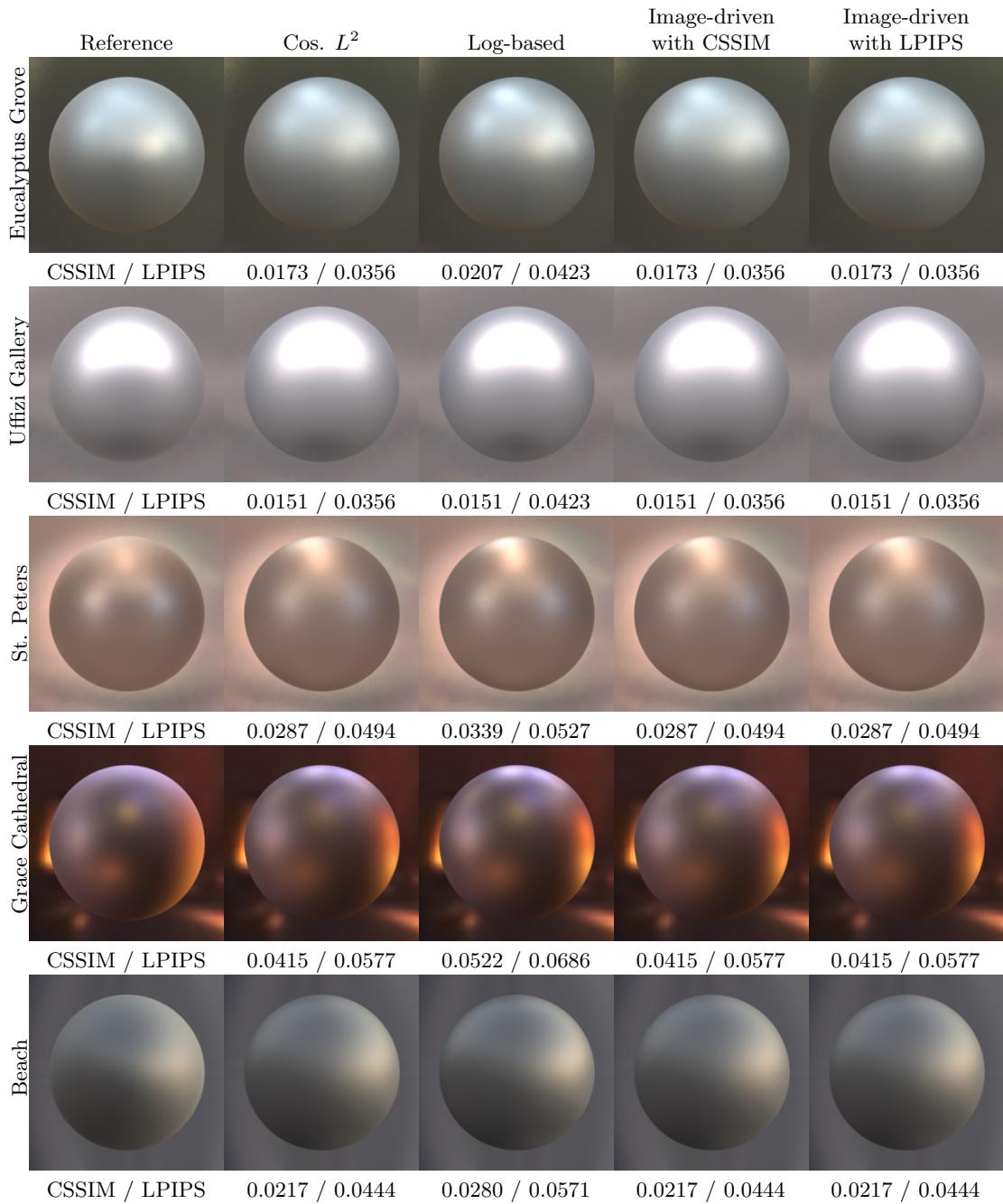
# yellow-phenolic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.3067	0.2230	0.1082	0.0228	0.0266	0.0275	0.0072	3.3028
Log-based	0.2999	0.2189	0.1041	0.2395	0.2289	0.2271	0.0182	1.4438
Image-driven with CSSIM ( $\gamma = 1.5$ )	0.3016	0.2188	0.1052	0.0605	0.0646	0.0658	0.0102	2.1388
Image-driven with LPIPS ( $\gamma = 2.5$ )	0.2954	0.2132	0.1011	0.1869	0.1883	0.1979	0.0227	1.5968



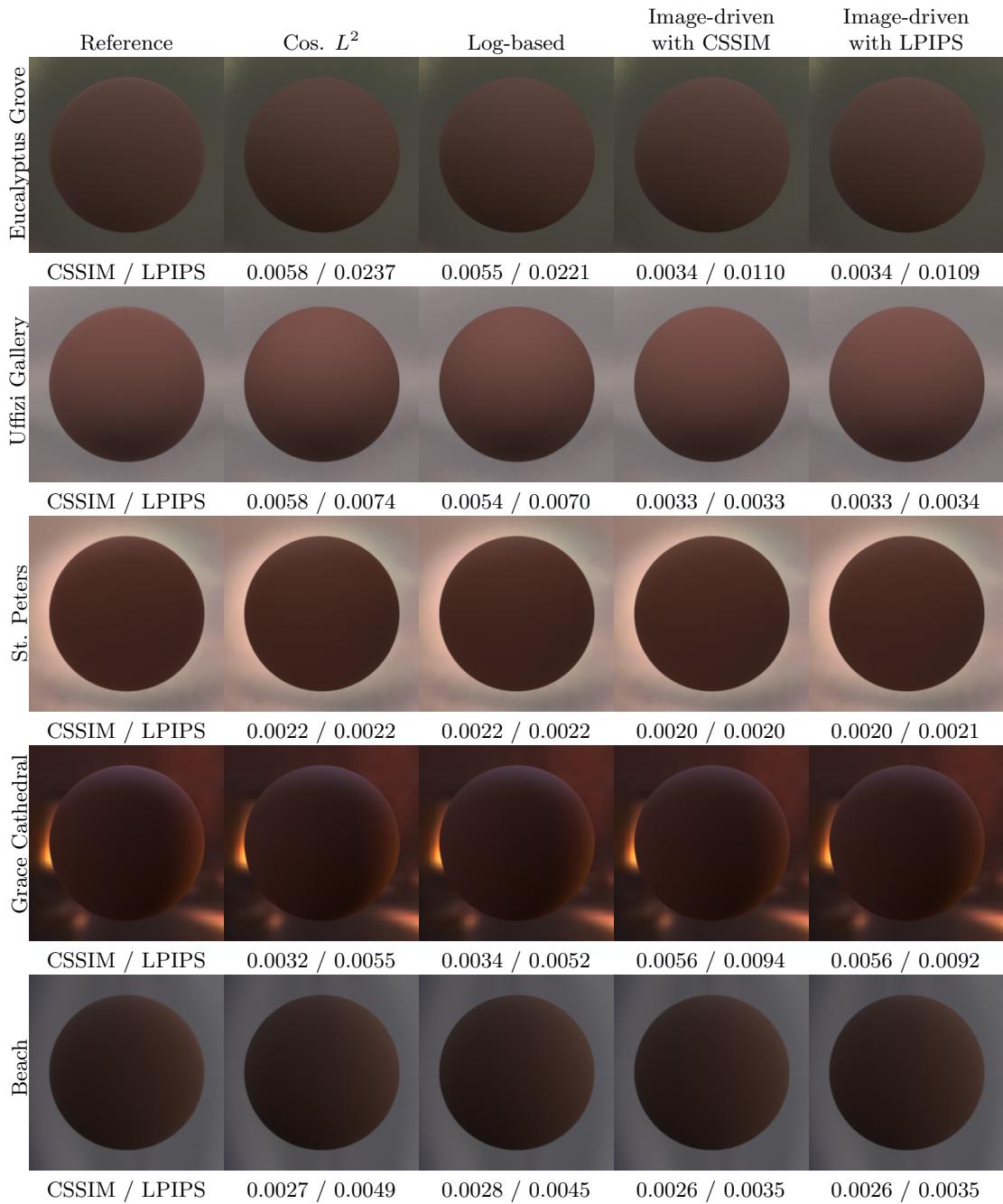
# silver-metallic-paint2

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0479	0.0586	0.0659	0.6835	0.6166	0.5481	0.2613	4.9960
Log-based	0.0482	0.0594	0.0659	0.6603	0.5960	0.5349	0.2270	4.9960
Image-driven with CSSIM ( $\gamma = 1.0$ )	0.0479	0.0586	0.0659	0.6835	0.6166	0.5481	0.2613	4.9960
Image-driven with LPIPS ( $\gamma = 1.0$ )	0.0479	0.0586	0.0659	0.6835	0.6166	0.5481	0.2613	4.9960



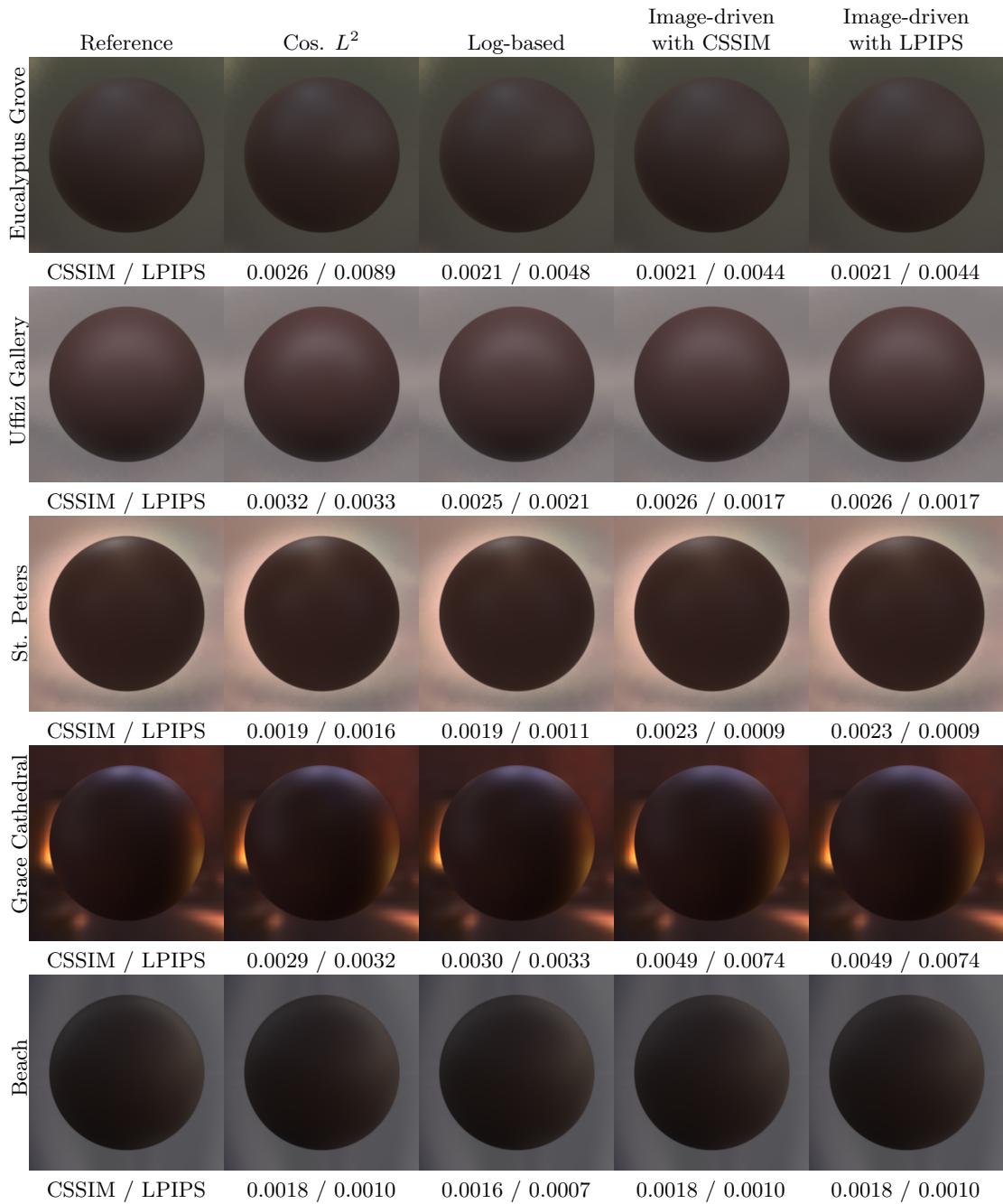
# light-brown-fabric

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0399	0.0126	0.0075	0.9999	0.7748	0.6728	0.7111	1.3248
Log-based	0.0368	0.0102	0.0063	0.9999	0.8085	0.6645	0.7406	1.3688
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.0360	0.0078	0.0036	1.0000	0.8705	0.7457	0.9148	1.4812
Image-driven with LPIPS ( $\gamma = 2.9$ )	0.0361	0.0079	0.0037	1.0000	0.8720	0.7481	0.9123	1.4775



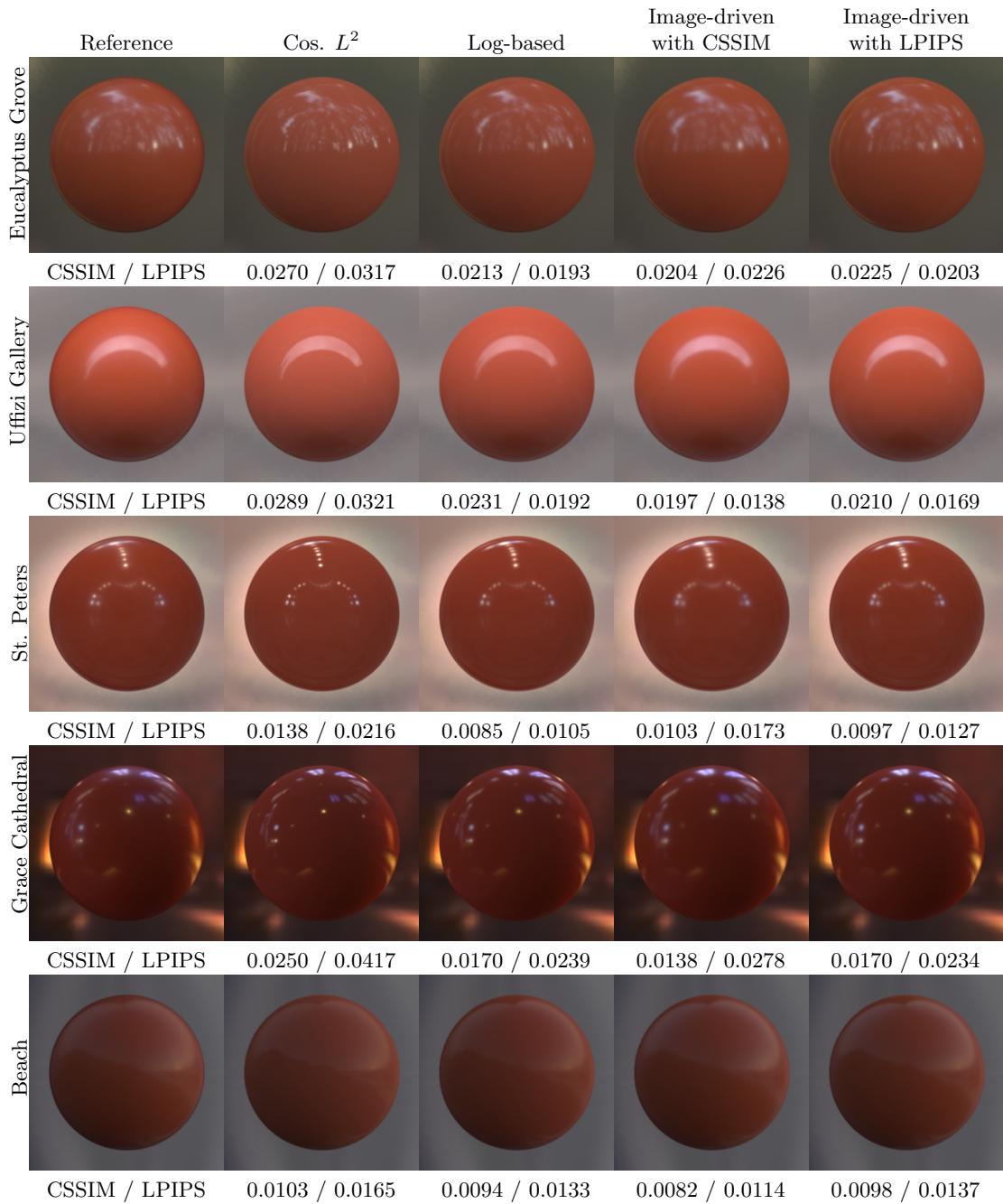
# dark-specular-fabric

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0198	0.0078	0.0061	0.4605	0.4337	0.4264	0.2659	1.3287
Log-based	0.0213	0.0095	0.0078	0.5428	0.5104	0.4956	0.2600	1.2696
Image-driven with CSSIM ( $\gamma = 2.6$ )	0.0187	0.0073	0.0057	0.6012	0.5428	0.5292	0.3141	1.3035
Image-driven with LPIPS ( $\gamma = 2.6$ )	0.0187	0.0073	0.0057	0.6012	0.5428	0.5292	0.3141	1.3035



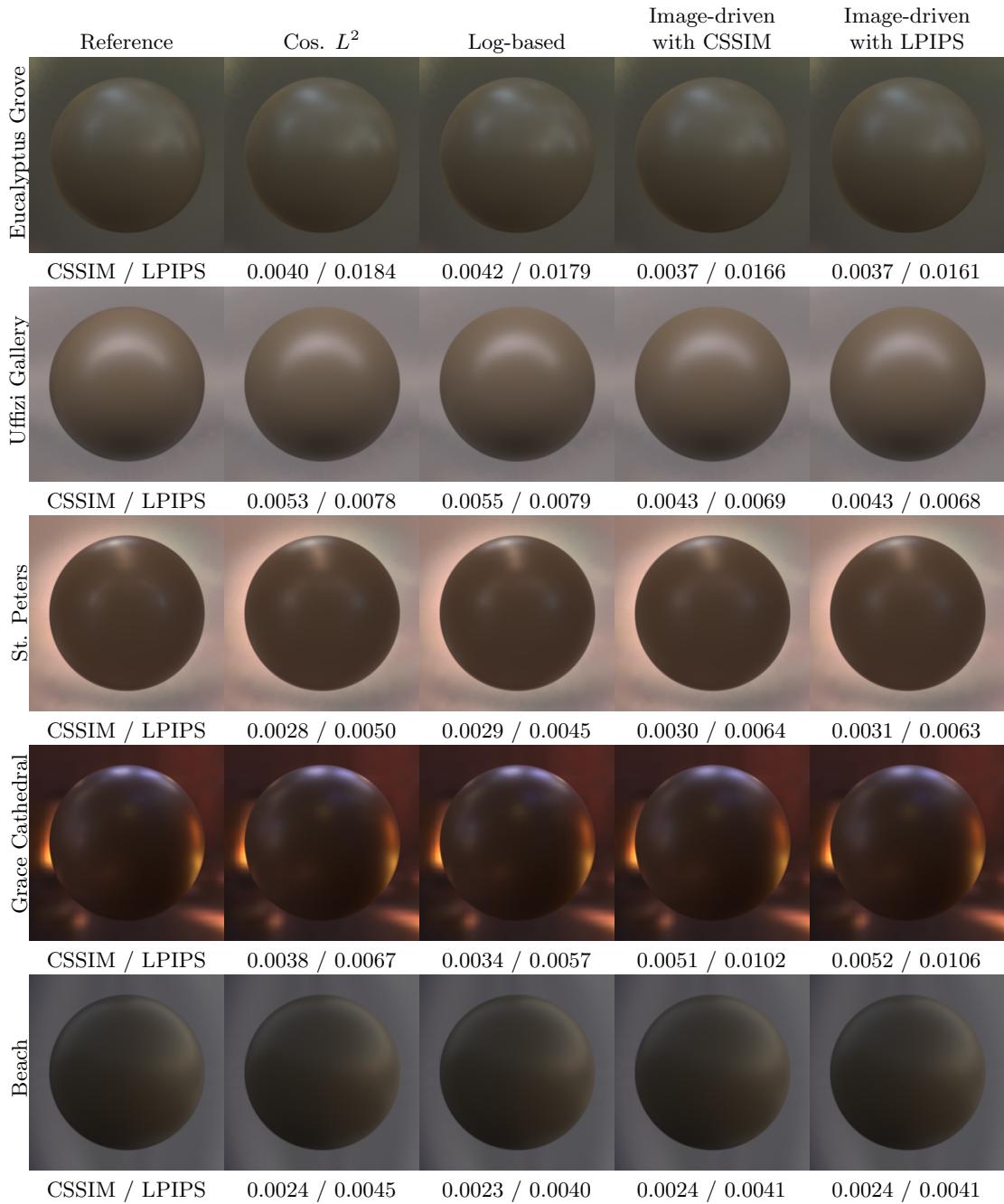
# red-phenolic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1738	0.0320	0.0162	0.1022	0.1005	0.0996	0.0093	1.8032
Log-based	0.1682	0.0276	0.0126	0.1717	0.1648	0.1663	0.0175	1.5777
Image-driven with CSSIM ( $\gamma = 2.7$ )	0.1663	0.0253	0.0088	0.1711	0.1840	0.2144	0.0292	1.6846
Image-driven with LPIPS ( $\gamma = 2.3$ )	0.1675	0.0260	0.0094	0.1971	0.2115	0.2315	0.0222	1.6118



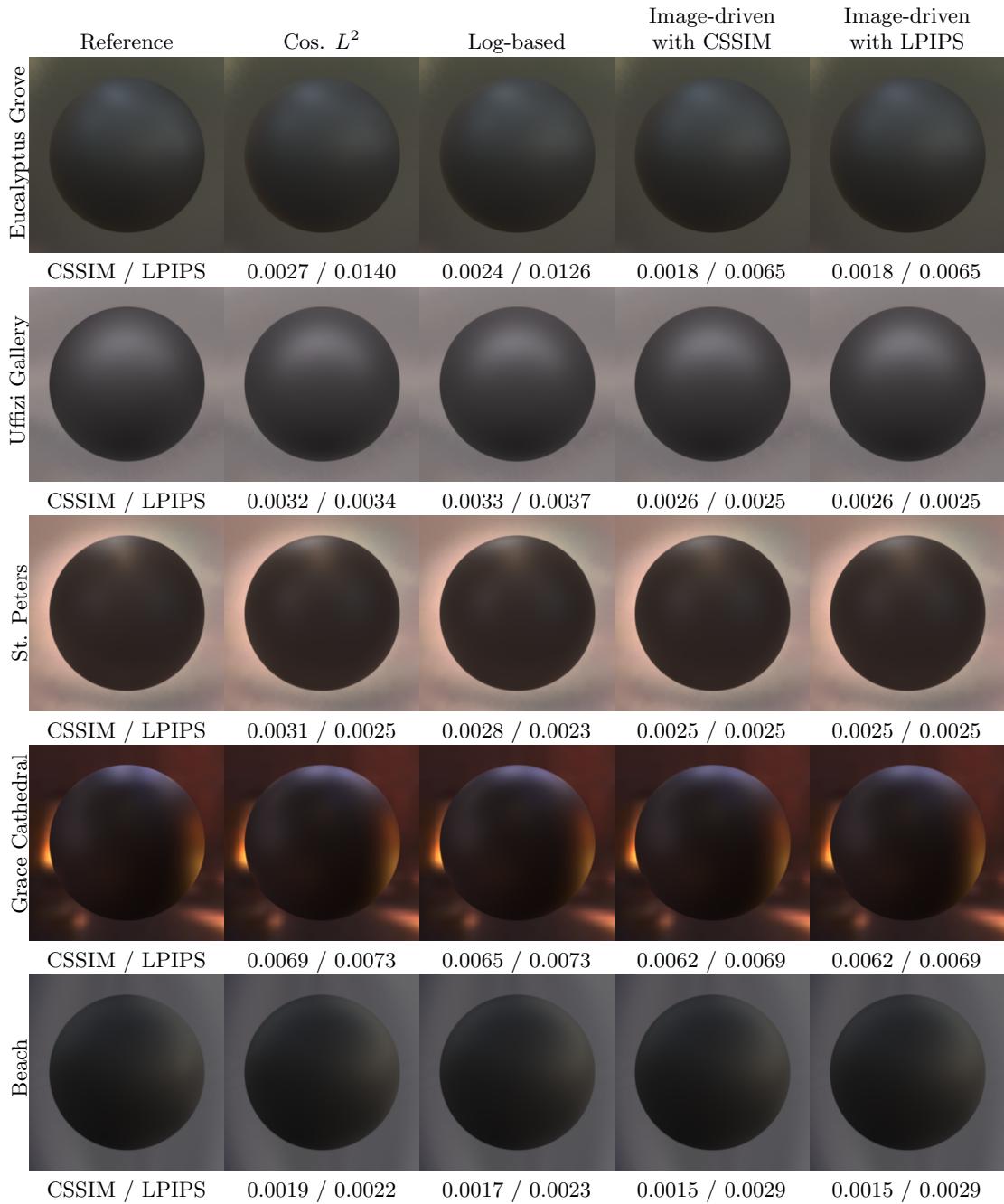
# fruitwood-241

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0491	0.0352	0.0200	0.4158	0.3967	0.3858	0.1354	1.4645
Log-based	0.0492	0.0351	0.0201	0.4100	0.3902	0.3754	0.1265	1.4549
Image-driven with CSSIM ( $\gamma = 2.9$ )	0.0483	0.0340	0.0186	0.3789	0.3708	0.3696	0.1497	1.5117
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.0482	0.0339	0.0186	0.3759	0.3681	0.3671	0.1501	1.5153



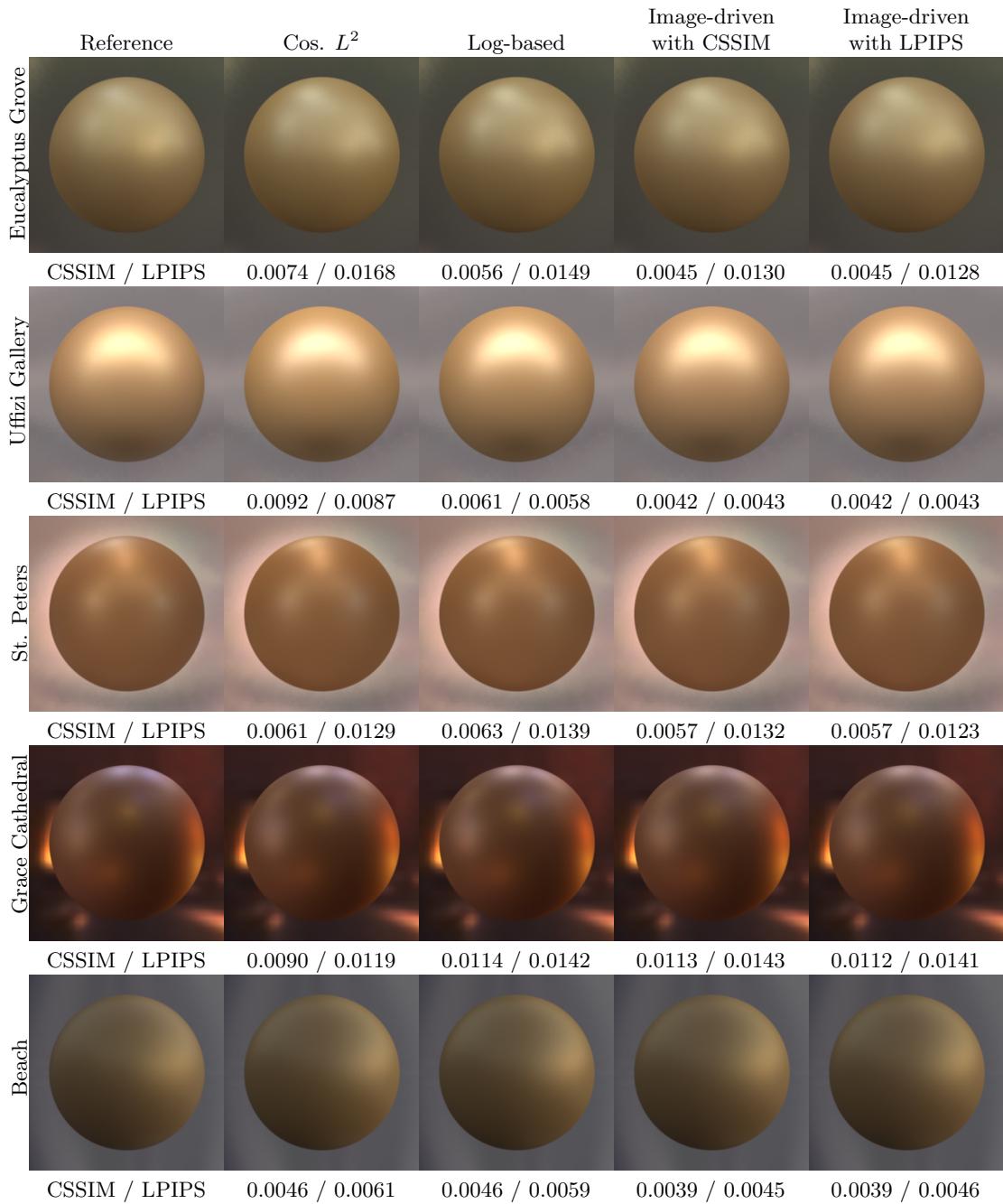
# black-oxidized-steel

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0114	0.0105	0.0100	0.5427	0.5166	0.4969	0.2684	1.4424
Log-based	0.0122	0.0109	0.0104	0.4658	0.4482	0.4316	0.2658	1.4906
Image-driven with CSSIM ( $\gamma = 2.9$ )	0.0098	0.0083	0.0075	0.4181	0.4127	0.4060	0.2849	1.5637
Image-driven with LPIPS ( $\gamma = 2.9$ )	0.0098	0.0083	0.0075	0.4181	0.4127	0.4060	0.2849	1.5637



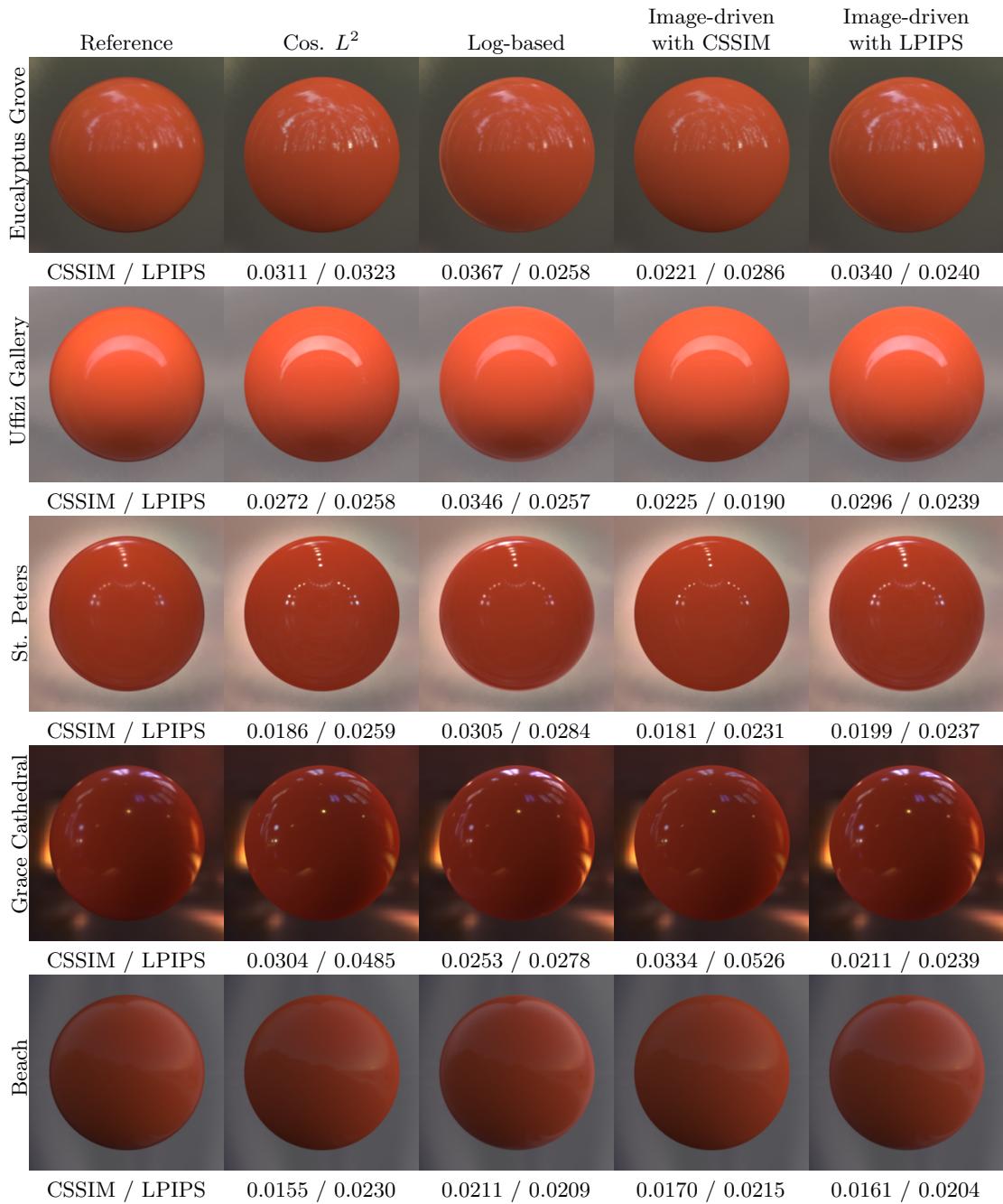
# gold-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1496	0.0782	0.0198	0.3625	0.2920	0.1817	0.2271	3.7221
Log-based	0.1384	0.0727	0.0210	0.3048	0.2371	0.1346	0.2215	4.9960
Image-driven with CSSIM ( $\gamma = 2.9$ )	0.1311	0.0662	0.0224	0.3559	0.2811	0.1484	0.2441	4.3899
Image-driven with LPIPS ( $\gamma = 2.6$ )	0.1318	0.0666	0.0225	0.3530	0.2790	0.1482	0.2431	4.4007



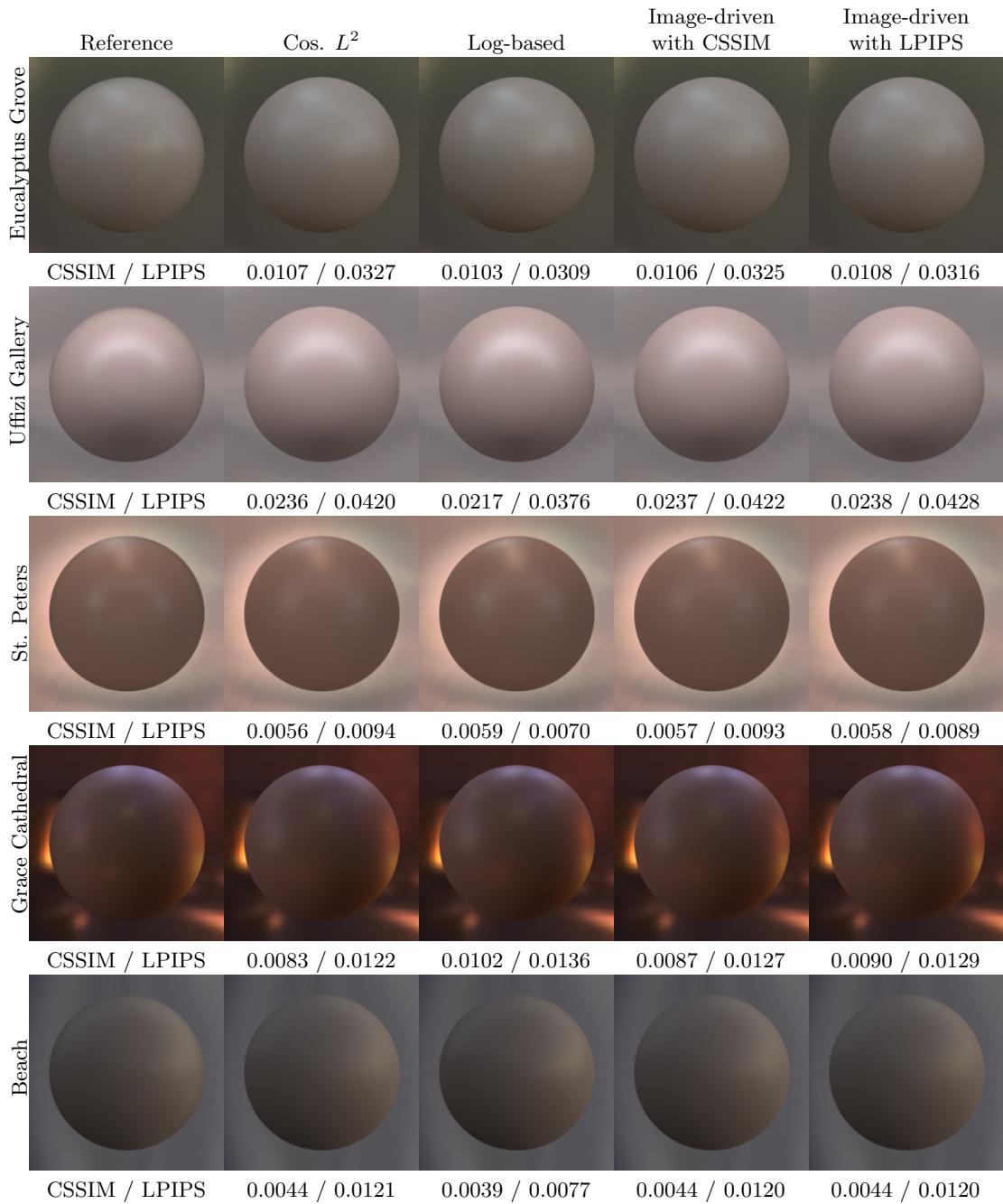
# specular-red-phenolic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.3115	0.0334	0.0091	0.0215	0.0274	0.0246	0.0039	4.9959
Log-based	0.3045	0.0347	0.0095	0.5023	0.3997	0.4229	0.0072	1.2867
Image-driven with CSSIM ( $\gamma = 1.2$ )	0.3122	0.0368	0.0105	0.0138	0.0173	0.0154	0.0031	4.9960
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.3046	0.0347	0.0085	0.2277	0.2179	0.2533	0.0078	1.5624



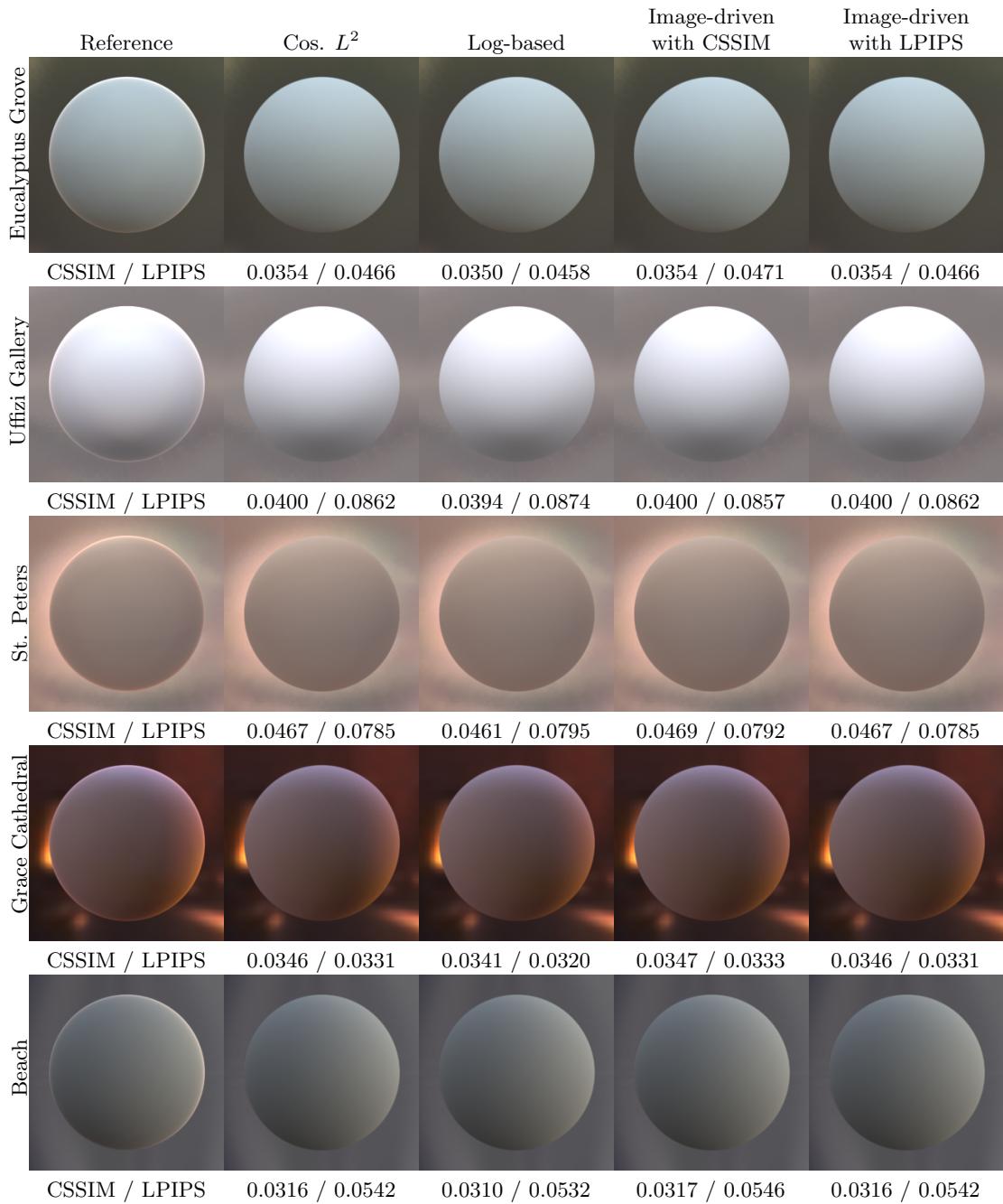
# pickled-oak-260

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1328	0.0976	0.0813	0.1674	0.1676	0.1637	0.2014	2.3846
Log-based	0.1271	0.0937	0.0774	0.1309	0.1271	0.1233	0.1814	2.8314
Image-driven with CSSIM ( $\gamma = 1.1$ )	0.1336	0.0985	0.0822	0.1652	0.1650	0.1609	0.1963	2.3536
Image-driven with LPIPS ( $\gamma = 1.3$ )	0.1345	0.0996	0.0833	0.1658	0.1651	0.1606	0.1899	2.2909



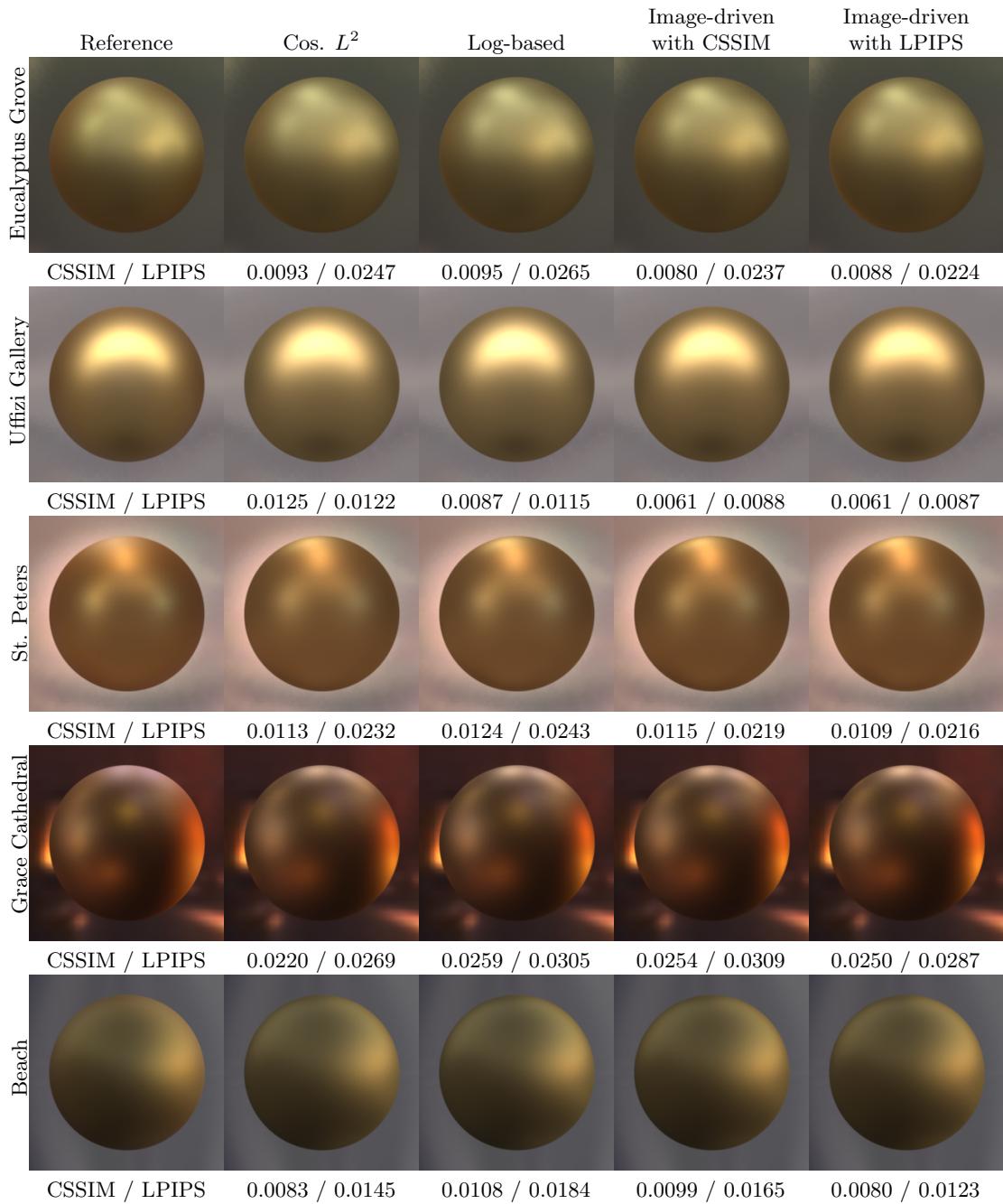
# polyethylene

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0710	0.0801	0.0748	1.0000	1.0000	1.0000	0.7978	4.9960
Log-based	0.0788	0.0861	0.0791	1.0000	1.0000	1.0000	0.8113	4.9960
Image-driven with CSSIM ( $\gamma = 1.1$ )	0.0699	0.0793	0.0742	1.0000	1.0000	1.0000	0.7974	4.9960
Image-driven with LPIPS ( $\gamma = 1.0$ )	0.0710	0.0801	0.0748	1.0000	1.0000	1.0000	0.7978	4.9960



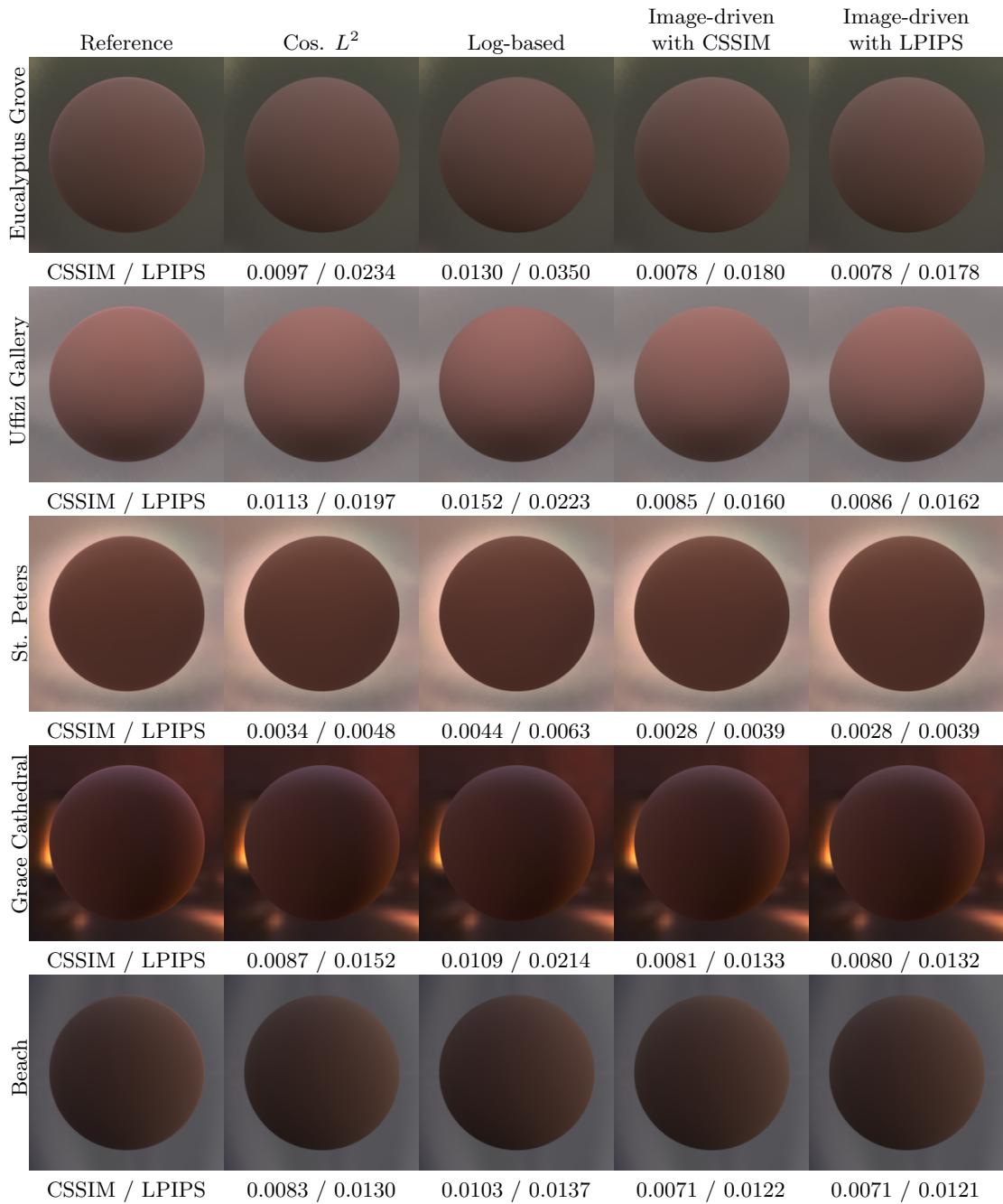
# gold-metallic-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0000	0.0000	0.0000	0.5680	0.3877	0.1341	0.2443	4.9960
Log-based	0.0005	0.0000	0.0000	0.5482	0.3802	0.1342	0.2288	4.9960
Image-driven with CSSIM ( $\gamma = 2.1$ )	0.0000	0.0000	0.0000	0.5675	0.3754	0.1244	0.2293	4.8192
Image-driven with LPIPS ( $\gamma = 2.7$ )	0.0000	0.0000	0.0000	0.8363	0.5441	0.1786	0.2270	3.3074



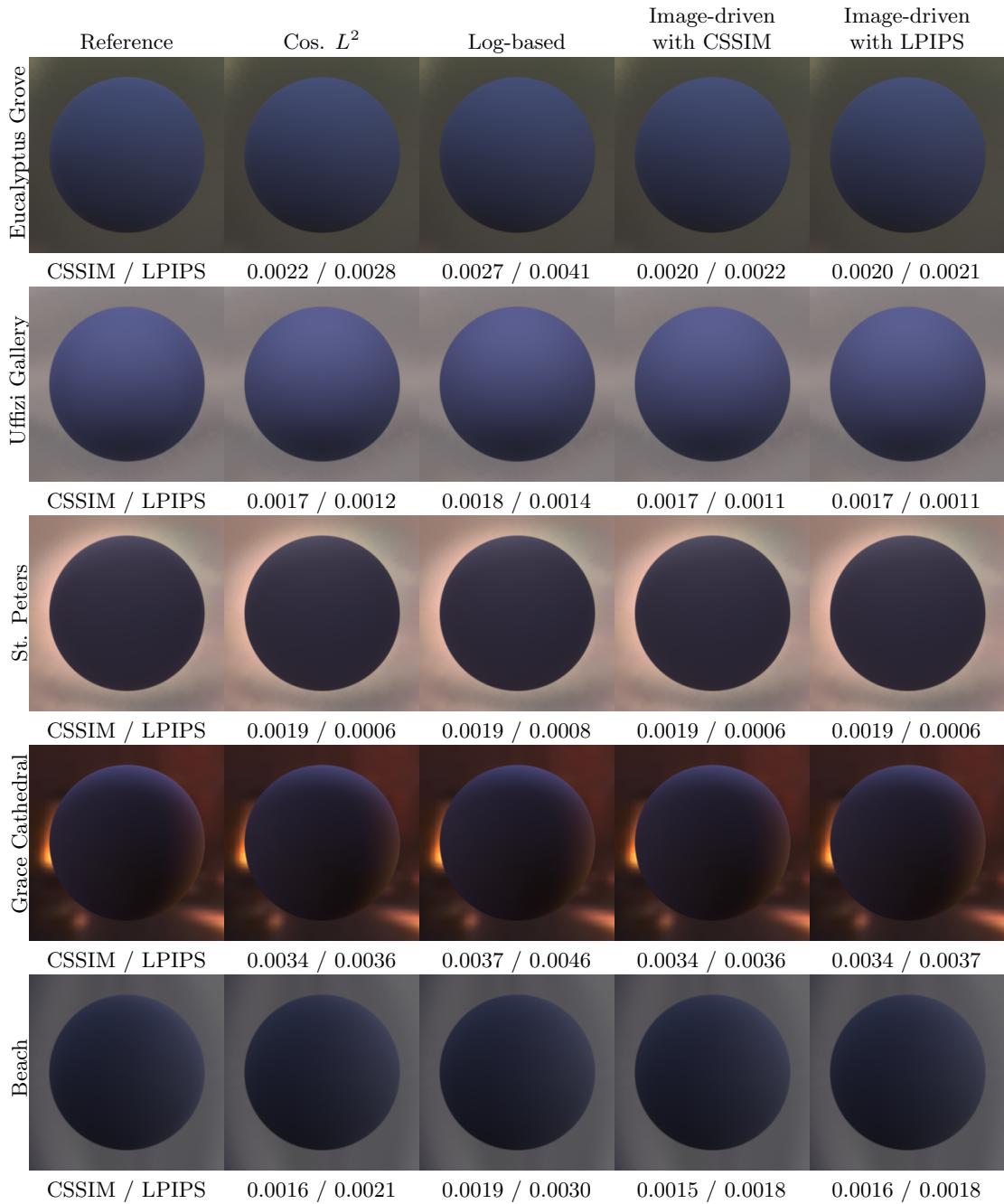
# polyurethane-foam

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0590	0.0121	0.0053	0.9994	0.9447	0.8617	0.8871	1.7125
Log-based	0.0727	0.0238	0.0180	0.9994	0.9662	0.7904	0.8510	1.4508
Image-driven with CSSIM ( $\gamma = 1.7$ )	0.0443	0.0000	0.0000	1.0000	0.8955	0.6921	0.9104	1.9906
Image-driven with LPIPS ( $\gamma = 1.6$ )	0.0442	0.0000	0.0000	1.0000	0.8936	0.6910	0.9089	1.9906



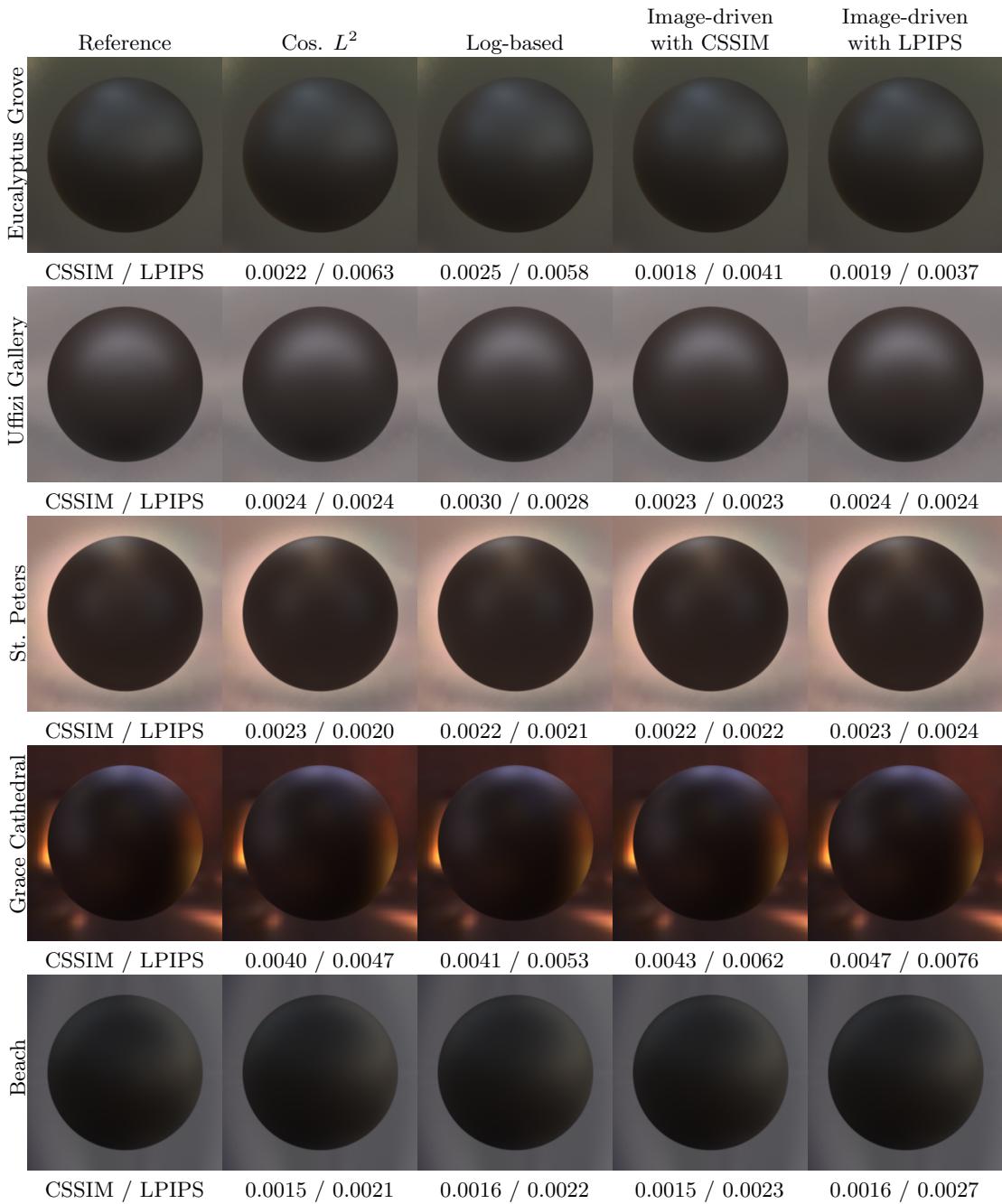
# blue-fabric

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0060	0.0072	0.0326	0.6134	0.6754	0.9999	0.7194	1.6314
Log-based	0.0092	0.0104	0.0360	0.5812	0.6503	0.9999	0.6945	1.5592
Image-driven with CSSIM ( $\gamma = 1.7$ )	0.0039	0.0045	0.0290	0.6102	0.6830	1.0000	0.7372	1.6913
Image-driven with LPIPS ( $\gamma = 2.0$ )	0.0040	0.0045	0.0291	0.6095	0.6847	1.0000	0.7381	1.6907



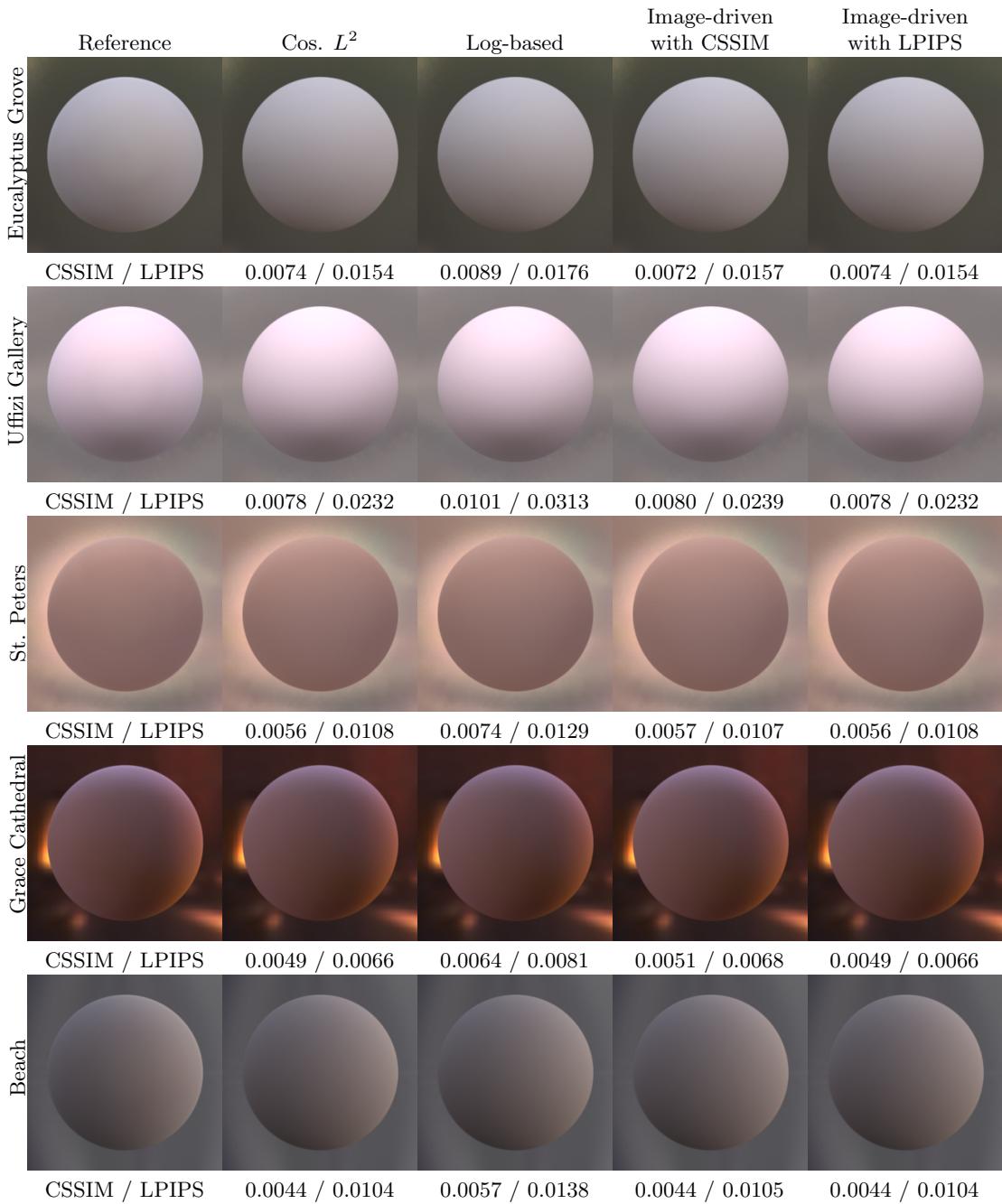
# special-walnut-224

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0054	0.0022	0.0010	0.4008	0.3924	0.3827	0.2808	1.5854
Log-based	0.0061	0.0028	0.0014	0.3447	0.3391	0.3324	0.2778	1.6630
Image-driven with CSSIM ( $\gamma = 1.9$ )	0.0059	0.0024	0.0006	0.3270	0.3245	0.3249	0.2673	1.6572
Image-driven with LPIPS ( $\gamma = 2.8$ )	0.0059	0.0025	0.0006	0.3025	0.3006	0.3027	0.2636	1.6922



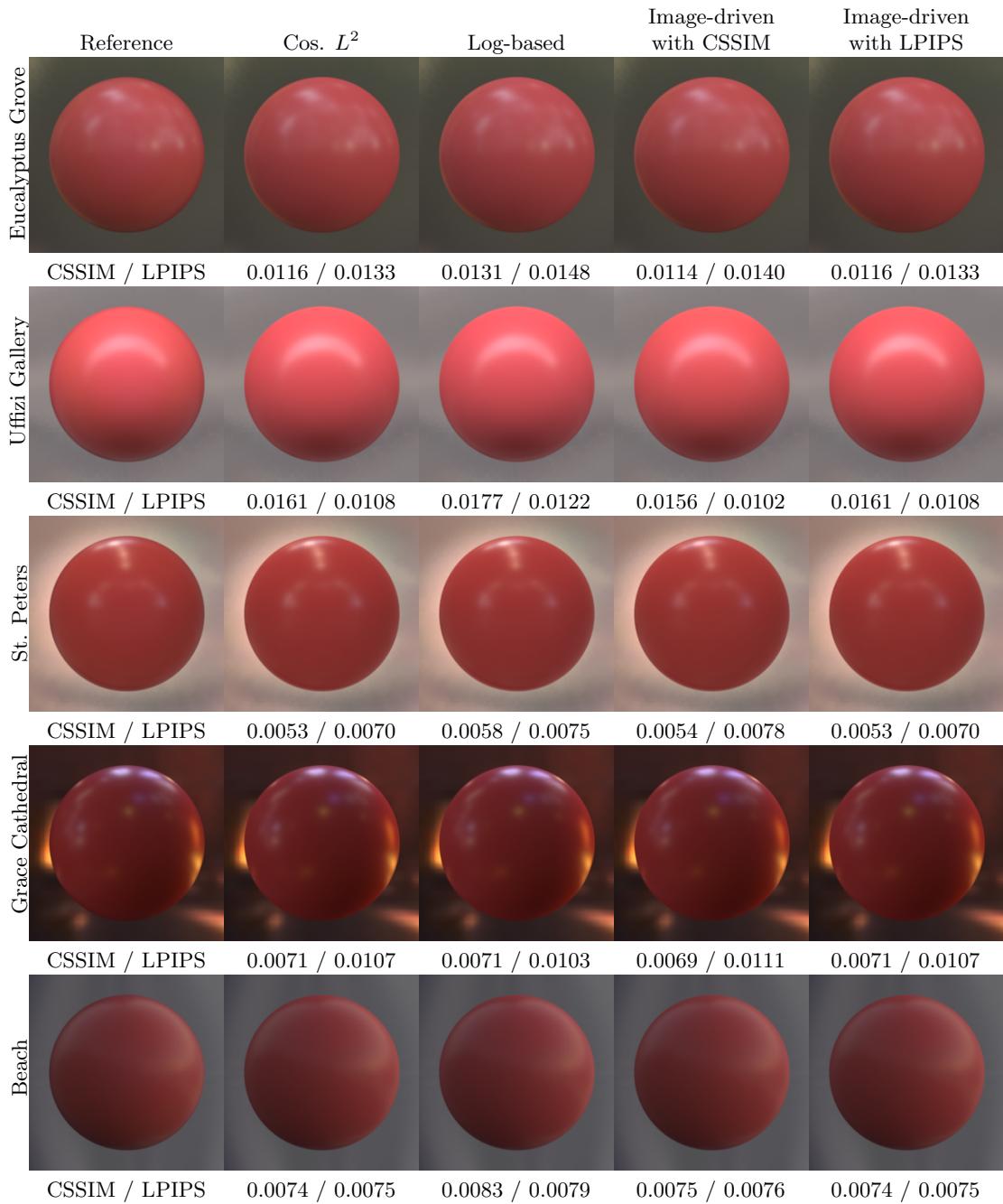
# pink-fabric

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1869	0.1264	0.1313	0.9984	0.9975	0.9955	0.7992	2.8922
Log-based	0.1879	0.1156	0.1078	0.6762	0.7641	0.8344	0.7641	3.5328
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.1998	0.1393	0.1448	1.0000	1.0000	1.0000	0.8089	2.7098
Image-driven with LPIPS ( $\gamma = 1.0$ )	0.1869	0.1264	0.1313	0.9984	0.9975	0.9955	0.7992	2.8922



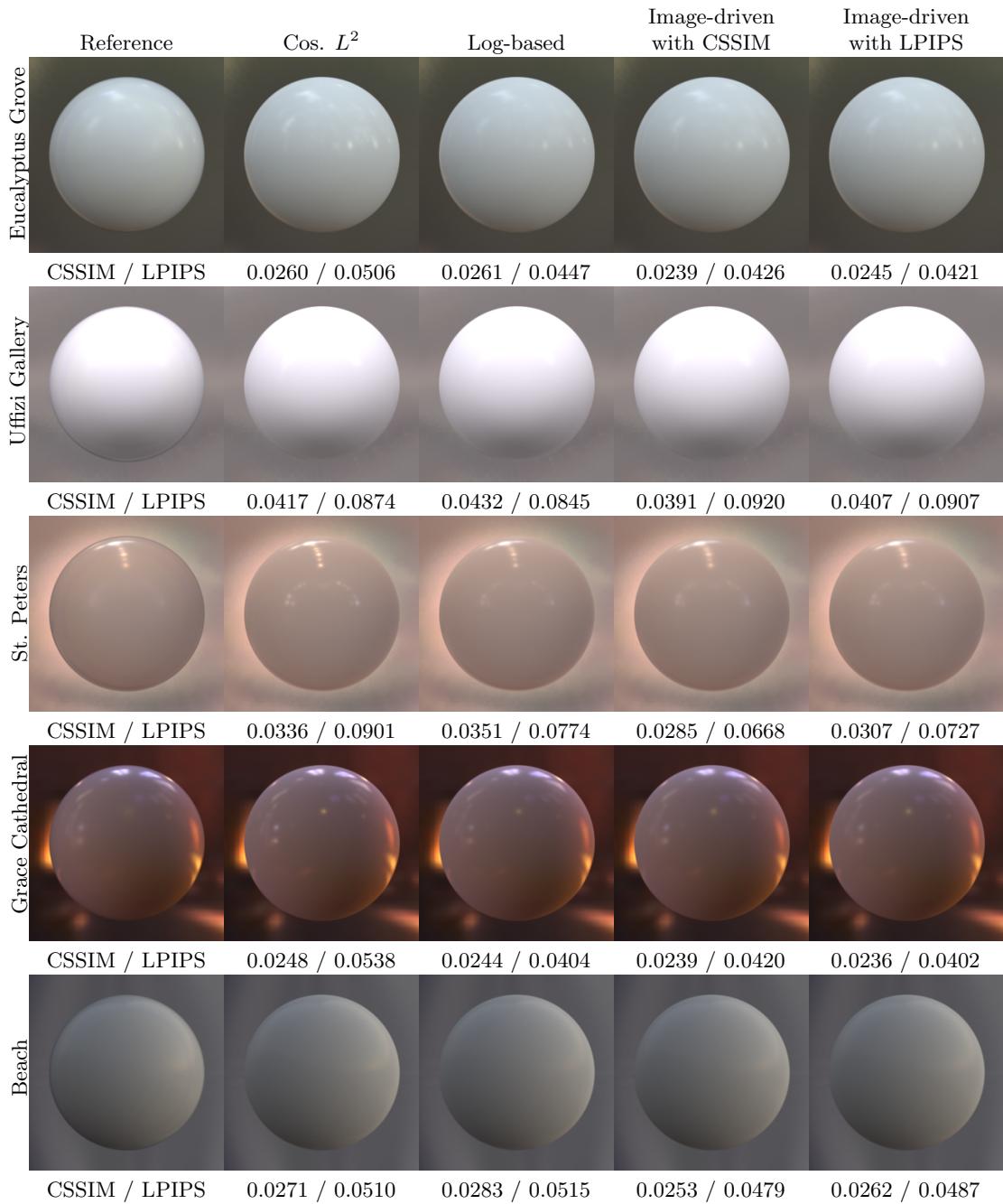
# purple-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2816	0.0304	0.0307	0.3072	0.3023	0.2989	0.0803	1.5408
Log-based	0.2810	0.0313	0.0332	0.3535	0.3407	0.3417	0.0794	1.4738
Image-driven with CSSIM ( $\gamma = 2.9$ )	0.2776	0.0313	0.0297	0.3340	0.3110	0.3372	0.0836	1.5003
Image-driven with LPIPS ( $\gamma = 1.0$ )	0.2816	0.0304	0.0307	0.3072	0.3023	0.2989	0.0803	1.5408



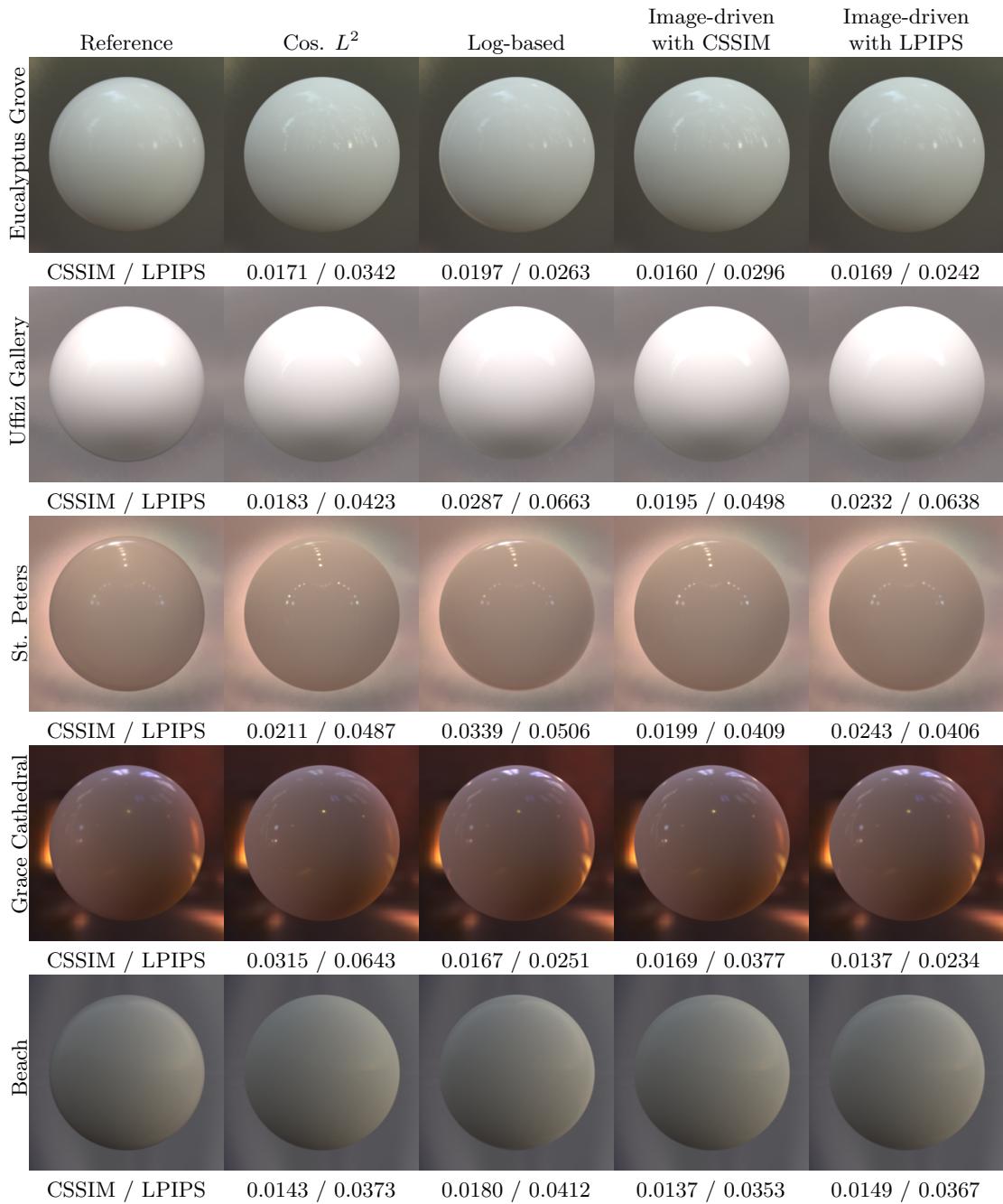
# white-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.3248	0.3175	0.3091	0.3432	0.2959	0.2566	0.0272	1.3638
Log-based	0.3192	0.3115	0.3047	0.4848	0.4271	0.4077	0.0341	1.2286
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.3170	0.3096	0.3004	0.3144	0.2815	0.2733	0.0427	1.3832
Image-driven with LPIPS ( $\gamma = 2.6$ )	0.3183	0.3109	0.3017	0.3679	0.3258	0.3137	0.0394	1.3341



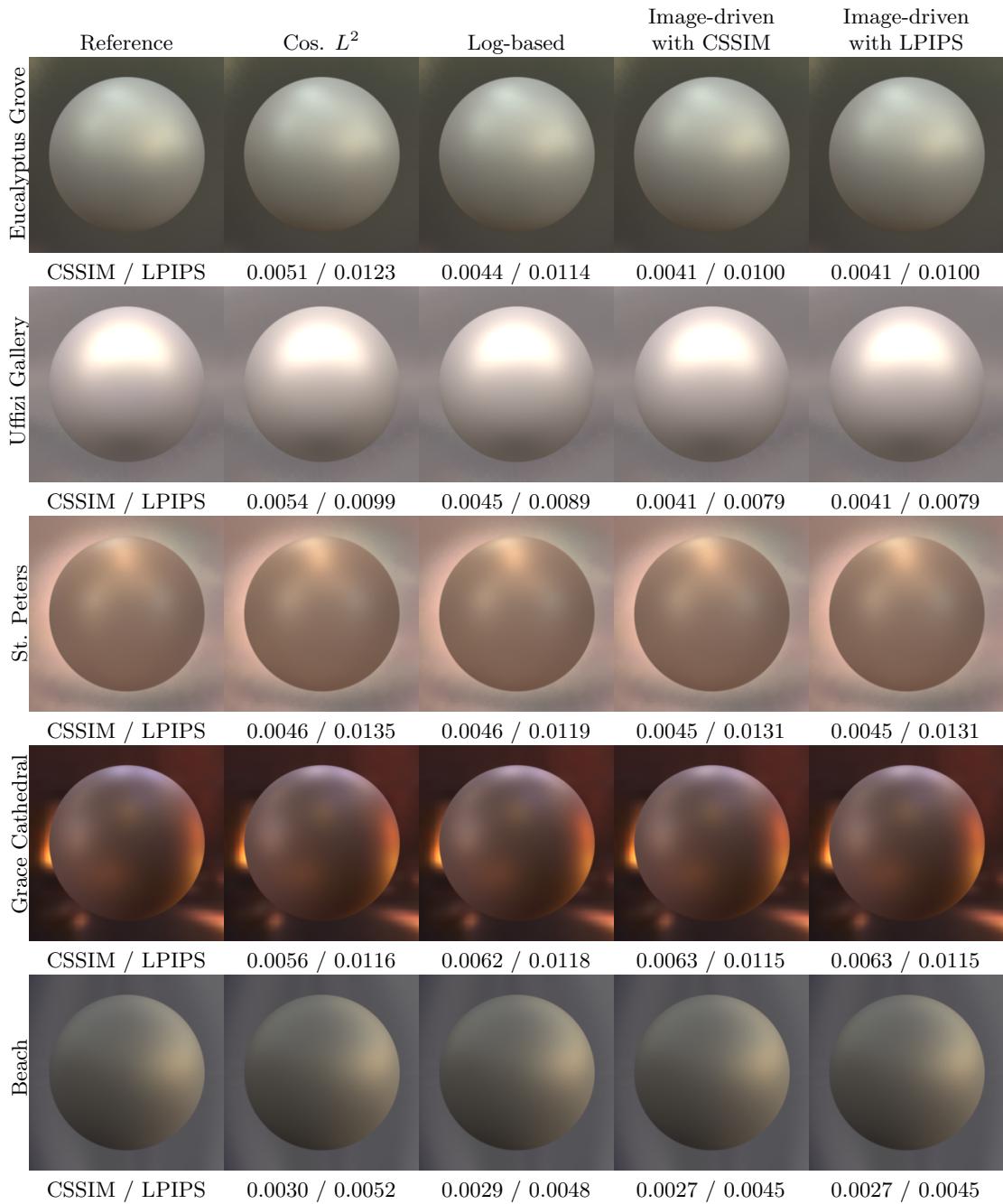
# white-acrylic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.3252	0.3099	0.2703	0.0130	0.0150	0.0111	0.0045	4.9959
Log-based	0.3190	0.3031	0.2660	0.3998	0.3859	0.3876	0.0092	1.2096
Image-driven with CSSIM ( $\gamma = 2.2$ )	0.3210	0.3053	0.2651	0.0886	0.0937	0.0837	0.0076	1.7134
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.3192	0.3034	0.2633	0.2089	0.2101	0.2132	0.0112	1.3798



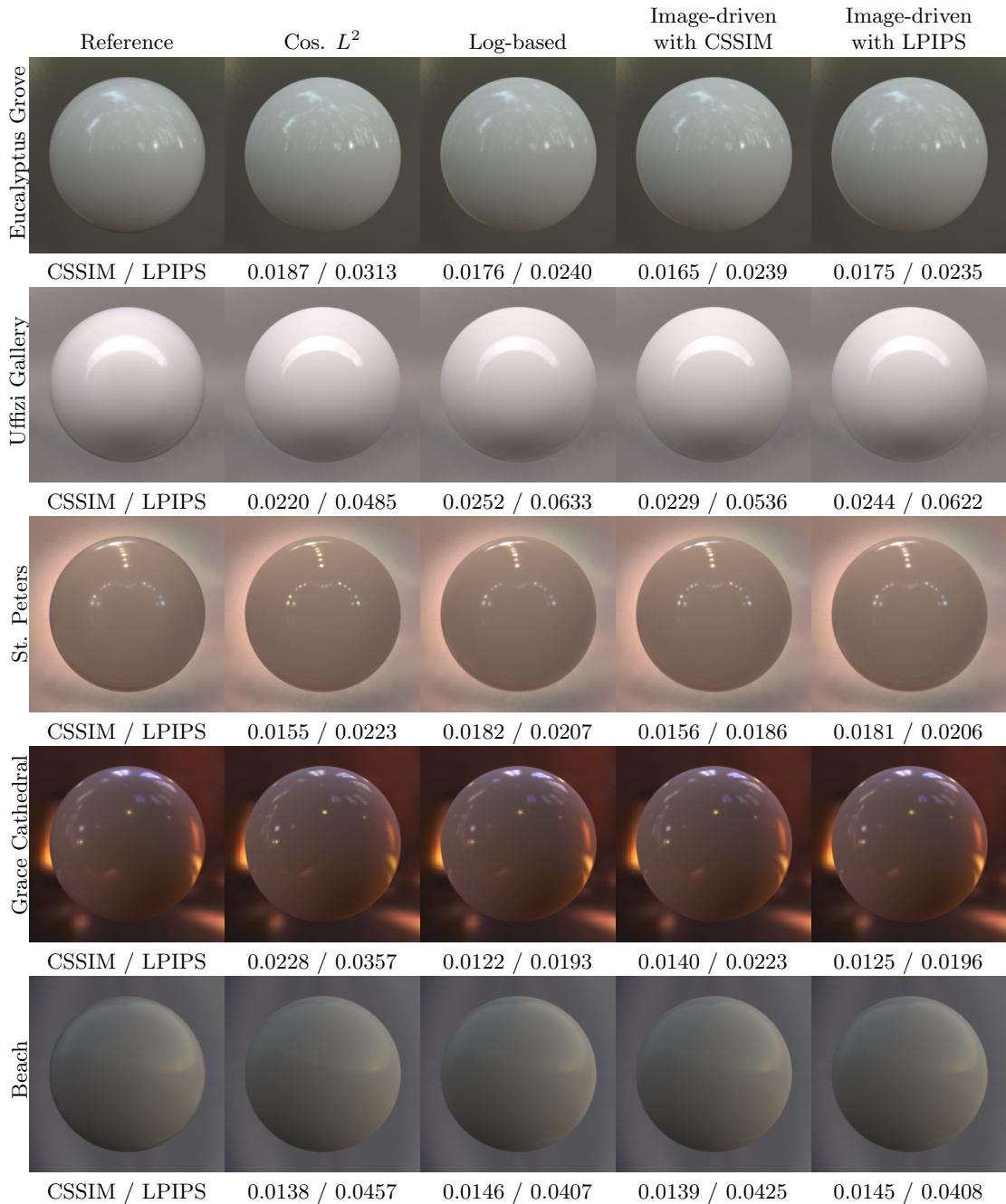
# pearl-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1604	0.1440	0.1234	0.3687	0.3113	0.2143	0.2616	4.8919
Log-based	0.1554	0.1421	0.1254	0.3741	0.3115	0.2063	0.2590	4.9960
Image-driven with CSSIM ( $\gamma = 2.9$ )	0.1535	0.1381	0.1261	0.3803	0.3220	0.2065	0.2664	4.9960
Image-driven with LPIPS ( $\gamma = 2.9$ )	0.1535	0.1381	0.1261	0.3803	0.3220	0.2065	0.2664	4.9960



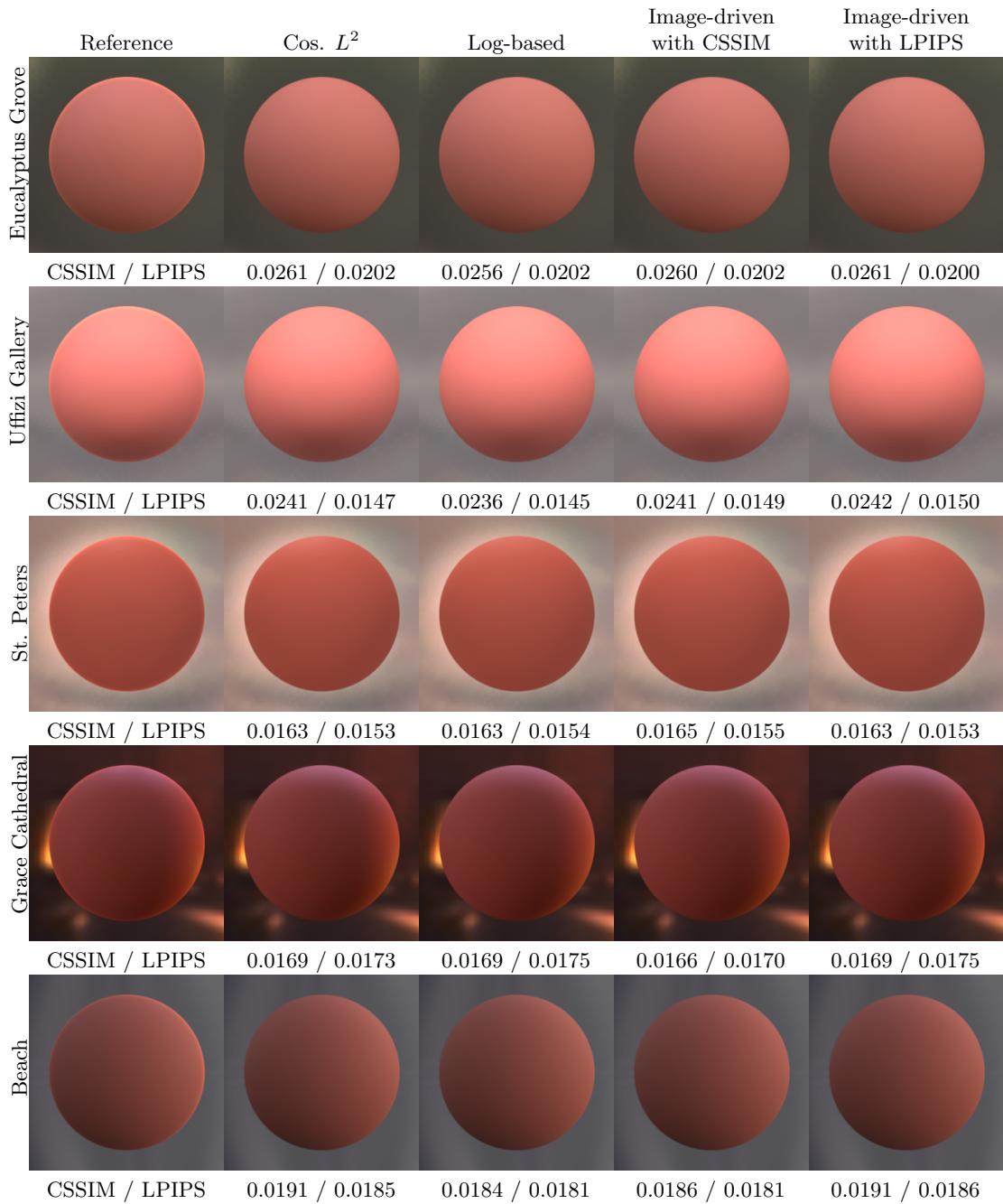
# white-marble

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2350	0.2189	0.1959	0.0854	0.0965	0.0694	0.0092	2.1238
Log-based	0.2272	0.2133	0.1877	0.2586	0.2405	0.2322	0.0160	1.5087
Image-driven with CSSIM ( $\gamma = 1.7$ )	0.2312	0.2171	0.1916	0.1681	0.1670	0.1483	0.0120	1.6947
Image-driven with LPIPS ( $\gamma = 2.2$ )	0.2293	0.2152	0.1898	0.2394	0.2309	0.2192	0.0154	1.5676



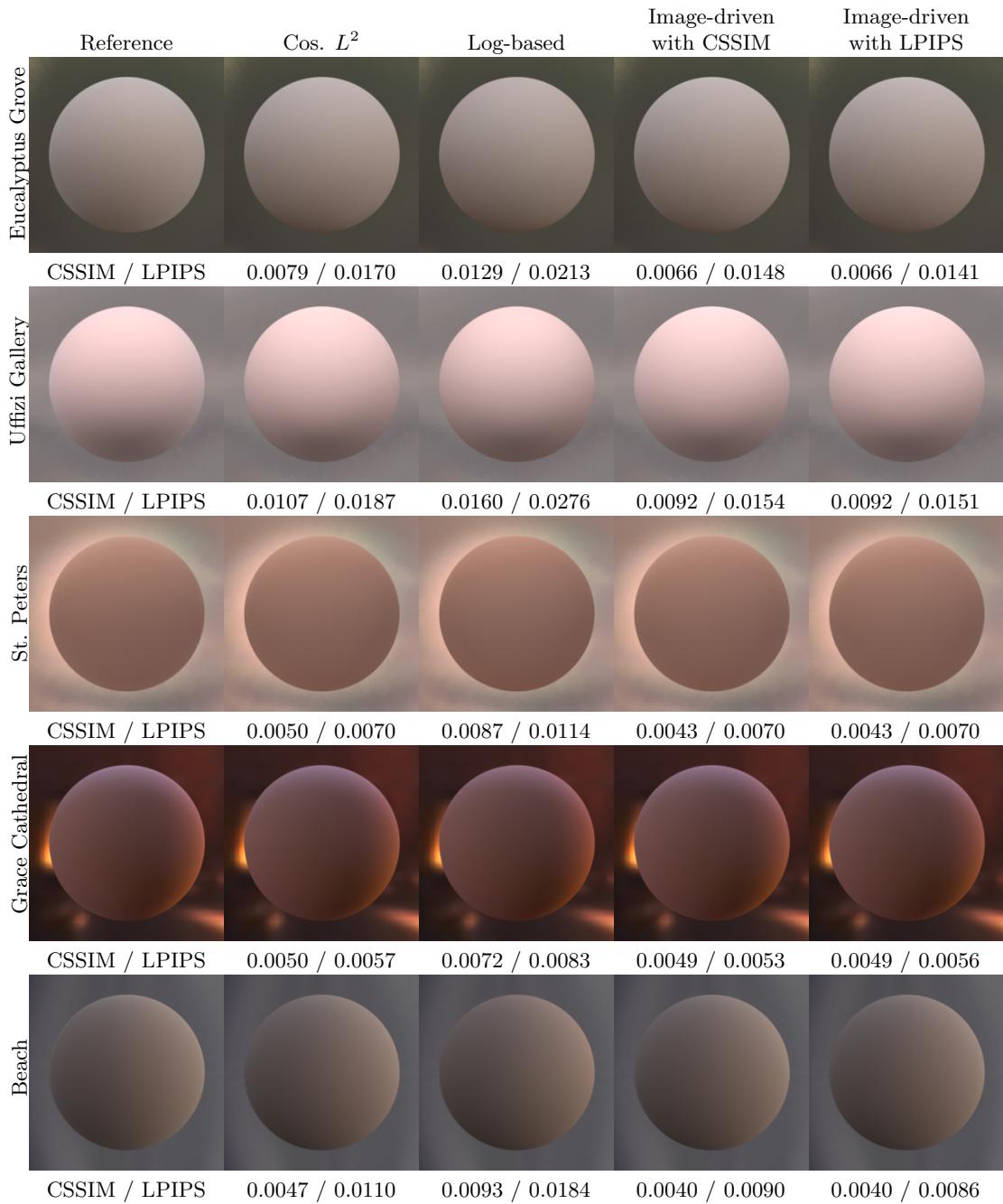
# pink-plastic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.3742	0.0862	0.0612	1.0000	0.7666	0.7699	0.4592	1.3115
Log-based	0.3656	0.0766	0.0512	0.9994	0.8900	0.8676	0.6225	1.4938
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.3643	0.0788	0.0541	1.0000	0.7470	0.7420	0.5935	1.4924
Image-driven with LPIPS ( $\gamma = 1.1$ )	0.3730	0.0856	0.0605	1.0000	0.7587	0.7627	0.4733	1.3286



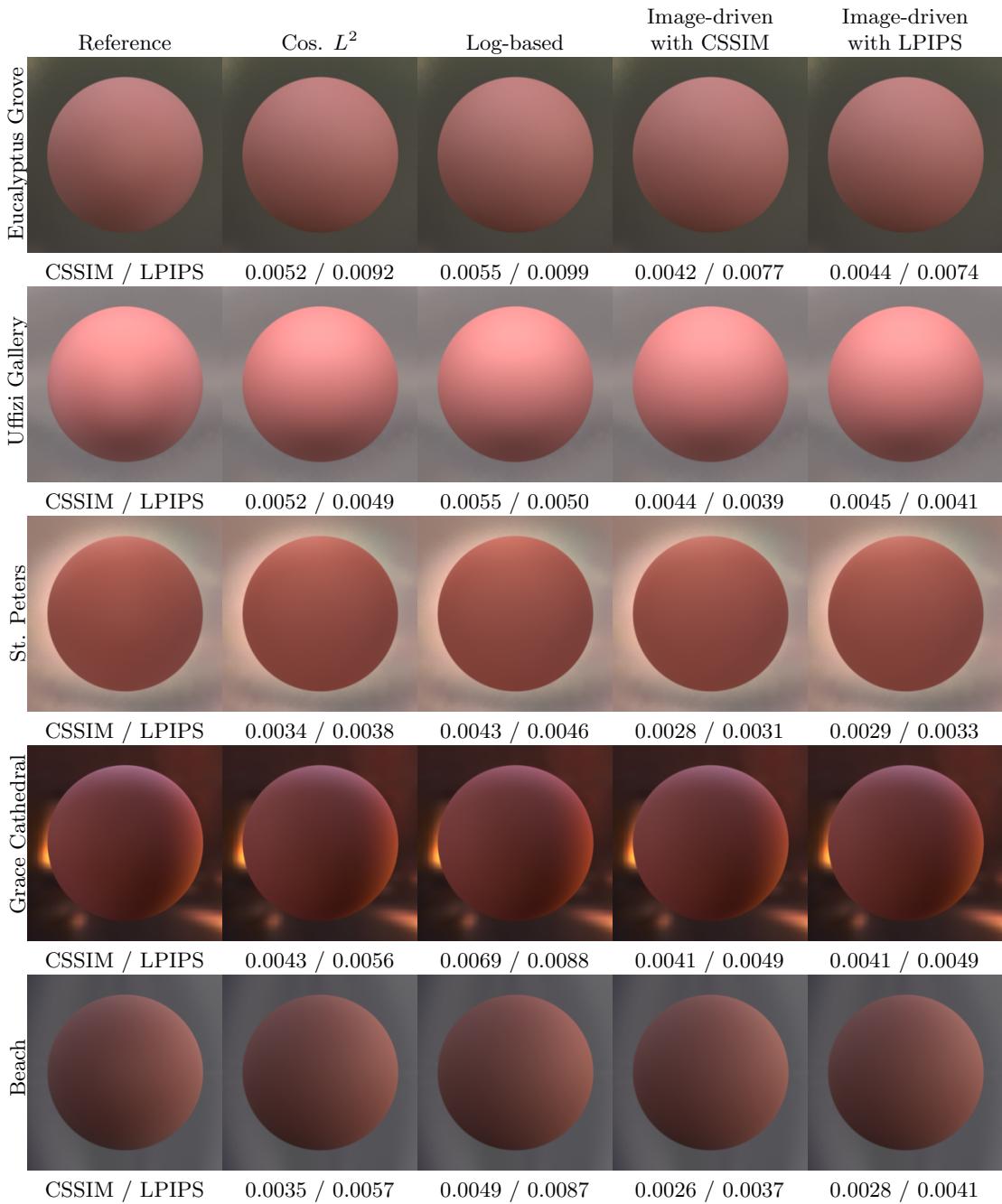
# beige-fabric

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1603	0.0823	0.0586	0.9999	0.9999	0.9665	0.8162	2.9596
Log-based	0.1264	0.1000	0.0844	0.9965	0.6449	0.5609	0.7738	3.3219
Image-driven with CSSIM ( $\gamma = 2.9$ )	0.1479	0.0704	0.0435	1.0000	1.0000	1.0000	0.8380	3.2677
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.1475	0.0699	0.0431	1.0000	1.0000	1.0000	0.8383	3.2777



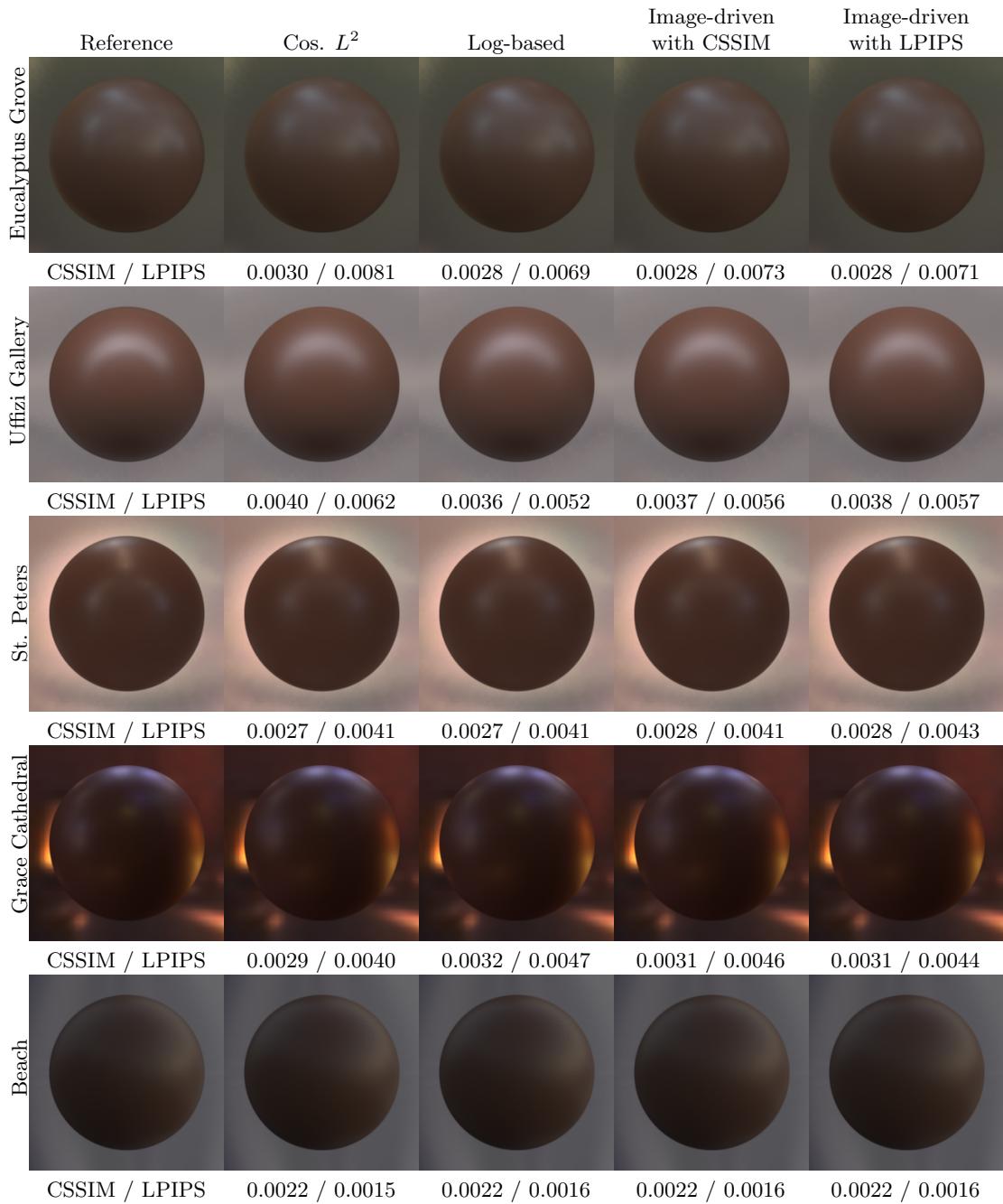
# pink-fabric2

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1913	0.0304	0.0221	0.9999	0.6789	0.6264	0.6286	2.3824
Log-based	0.1557	0.0297	0.0238	0.8578	0.4437	0.3891	0.6352	3.1969
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.1912	0.0204	0.0142	1.0000	0.8014	0.7313	0.6730	2.4314
Image-driven with LPIPS ( $\gamma = 2.4$ )	0.1914	0.0228	0.0164	1.0000	0.7744	0.7062	0.6650	2.4213



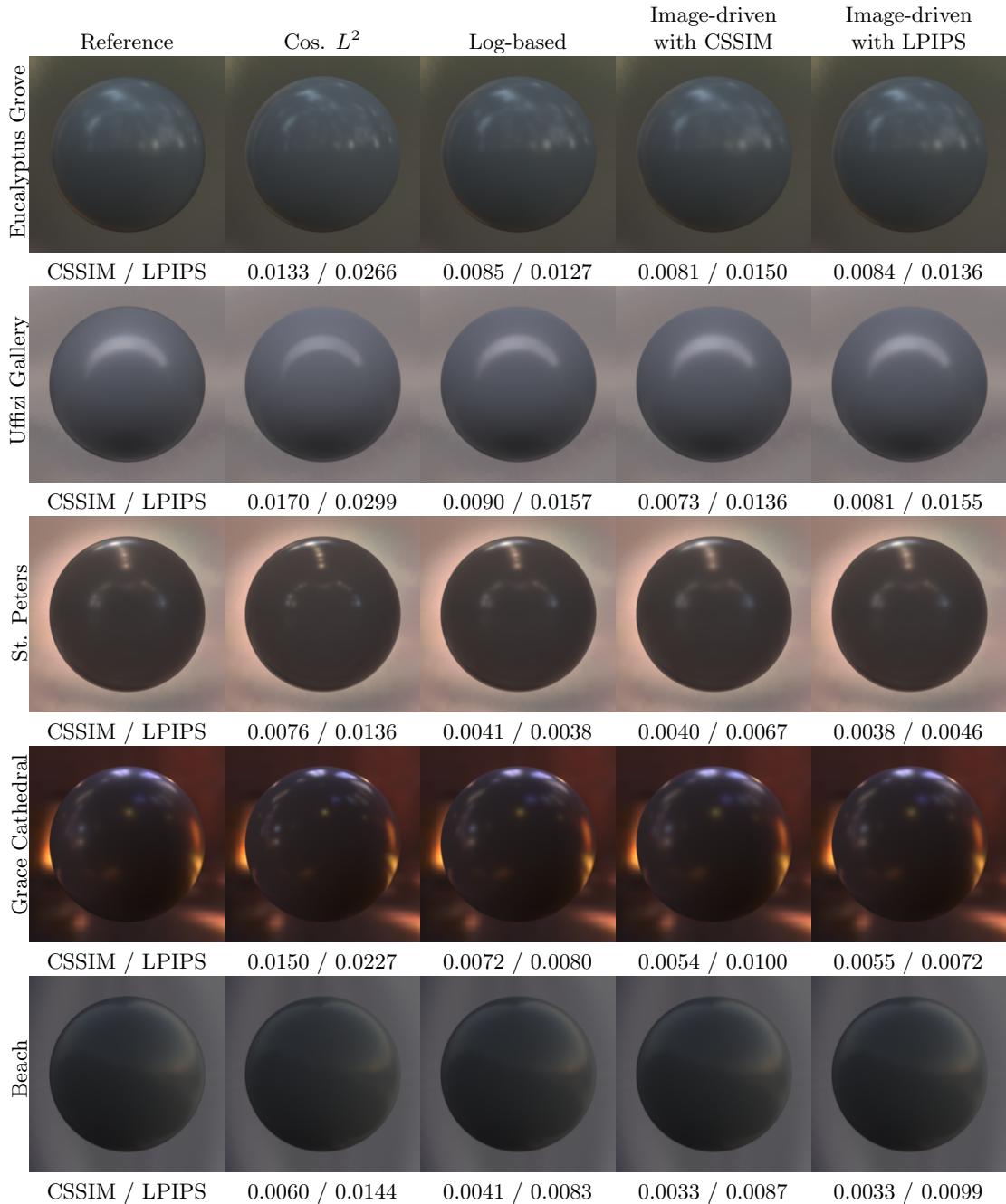
# cherry-235

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0383	0.0154	0.0076	0.2675	0.2632	0.2658	0.1665	1.6551
Log-based	0.0375	0.0154	0.0081	0.2638	0.2576	0.2560	0.1602	1.6674
Image-driven with CSSIM ( $\gamma = 1.9$ )	0.0384	0.0156	0.0083	0.2573	0.2526	0.2485	0.1619	1.6658
Image-driven with LPIPS ( $\gamma = 2.8$ )	0.0383	0.0155	0.0083	0.2639	0.2589	0.2527	0.1633	1.6573



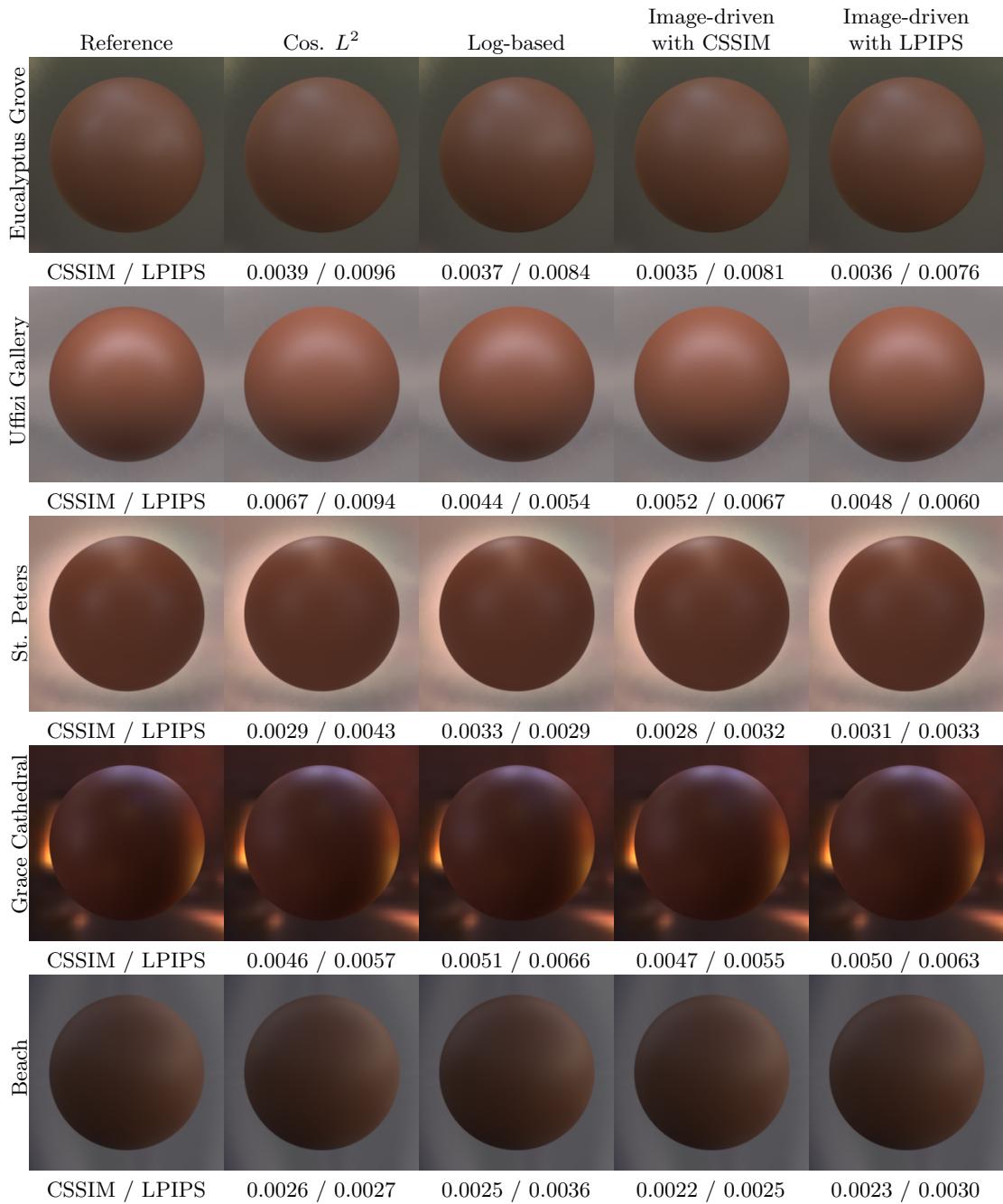
# pvc

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0381	0.0413	0.0456	0.2719	0.2731	0.2555	0.0357	1.3388
Log-based	0.0325	0.0361	0.0401	0.2920	0.2776	0.2685	0.0511	1.4281
Image-driven with CSSIM ( $\gamma = 2.3$ )	0.0318	0.0353	0.0392	0.3022	0.2981	0.2967	0.0655	1.4761
Image-driven with LPIPS ( $\gamma = 1.9$ )	0.0324	0.0359	0.0399	0.3137	0.3066	0.3018	0.0586	1.4478



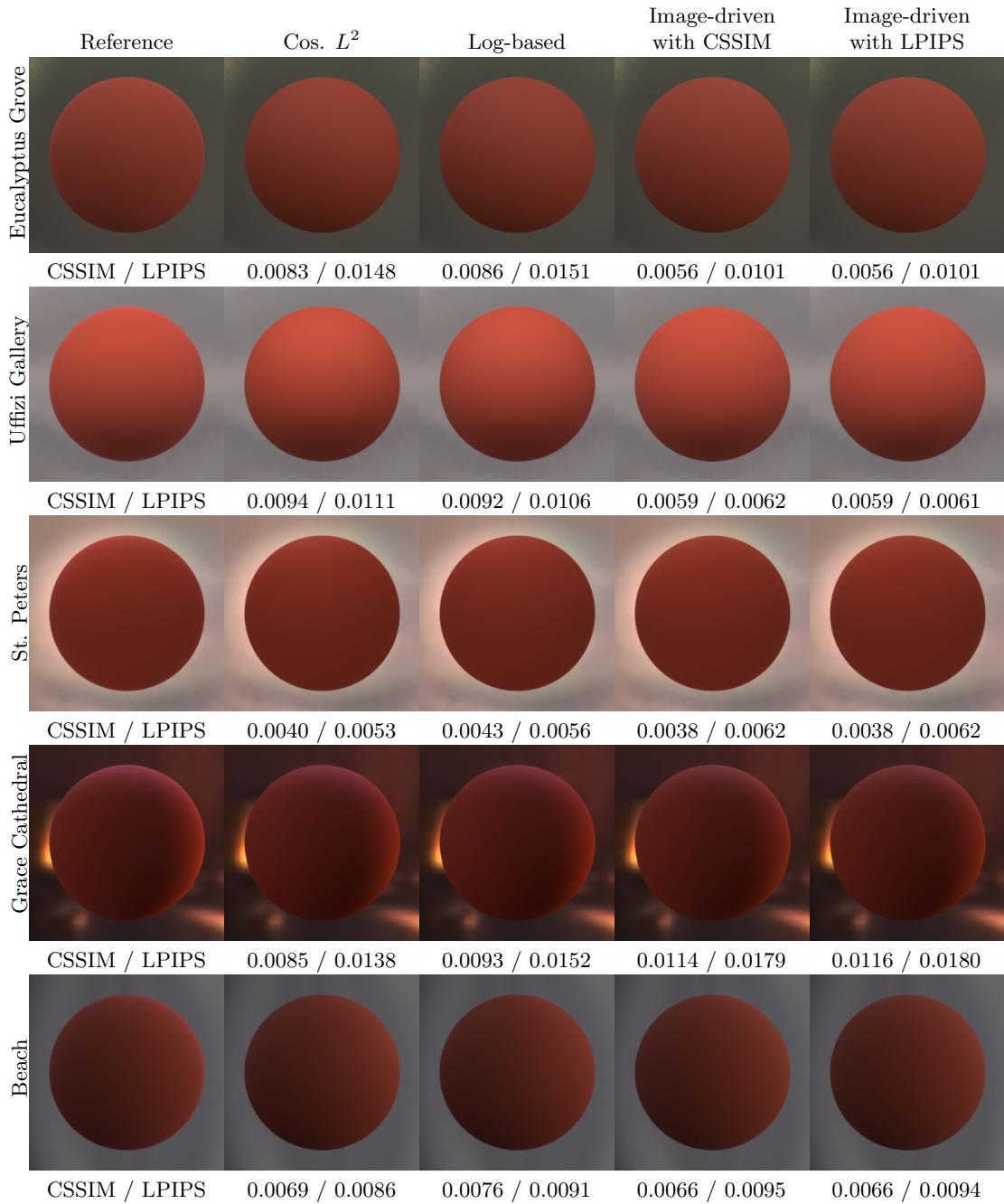
# colonial-maple-223

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0858	0.0264	0.0112	0.5512	0.5207	0.5073	0.2469	1.4281
Log-based	0.0795	0.0230	0.0085	0.3875	0.3514	0.3427	0.2412	1.6211
Image-driven with CSSIM ( $\gamma = 1.3$ )	0.0837	0.0250	0.0097	0.4620	0.4255	0.4169	0.2422	1.5180
Image-driven with LPIPS ( $\gamma = 1.9$ )	0.0829	0.0249	0.0096	0.4112	0.3681	0.3607	0.2390	1.5791



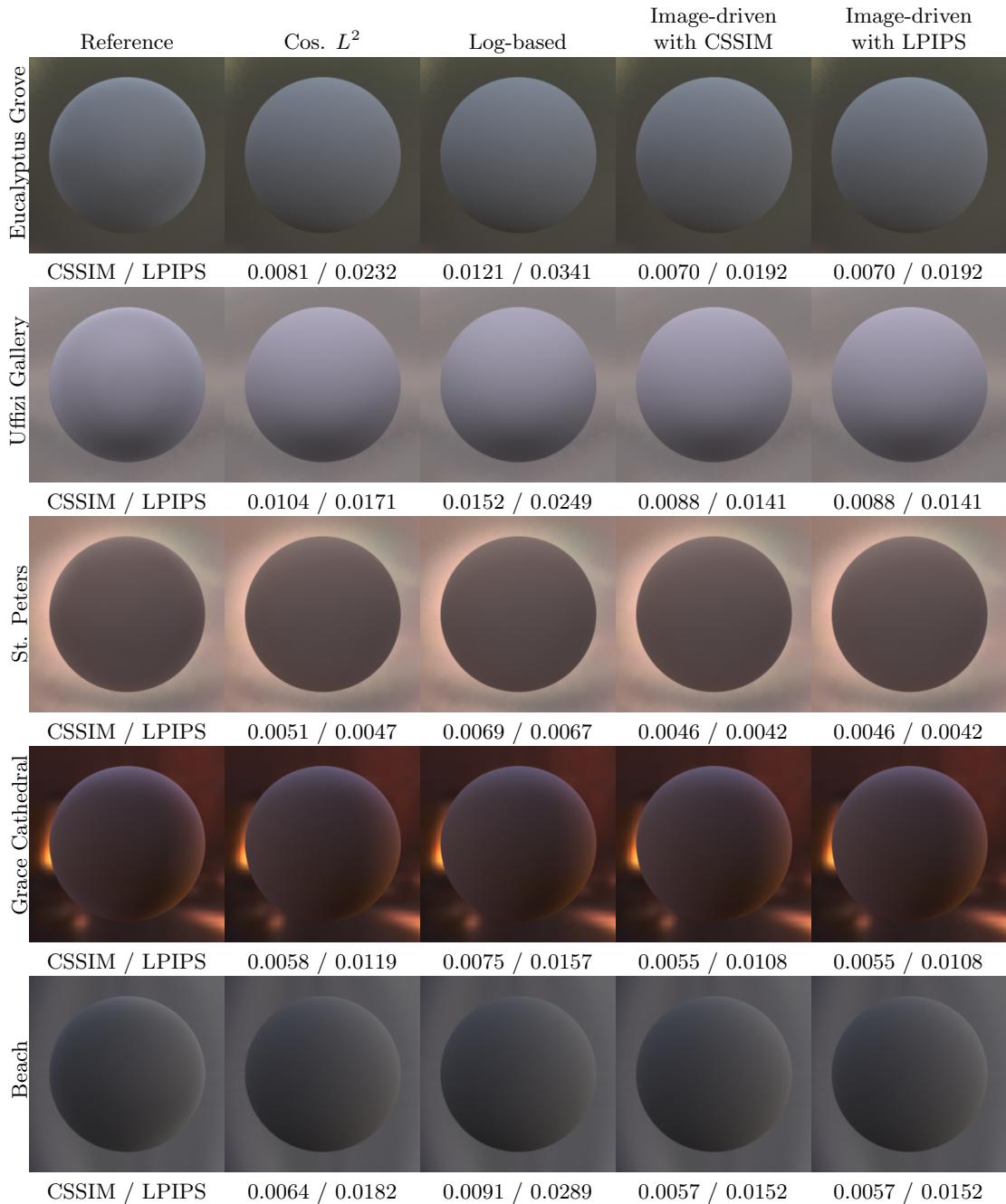
# red-fabric2

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1198	0.0113	0.0009	0.9999	0.2970	0.2732	0.6482	1.6571
Log-based	0.1220	0.0141	0.0033	0.9994	0.2514	0.2421	0.6444	1.6129
Image-driven with CSSIM ( $\gamma = 2.9$ )	0.1222	0.0061	0.0000	1.0000	0.4569	0.3149	0.8174	1.7587
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.1233	0.0061	0.0000	1.0000	0.4677	0.3237	0.8216	1.7463



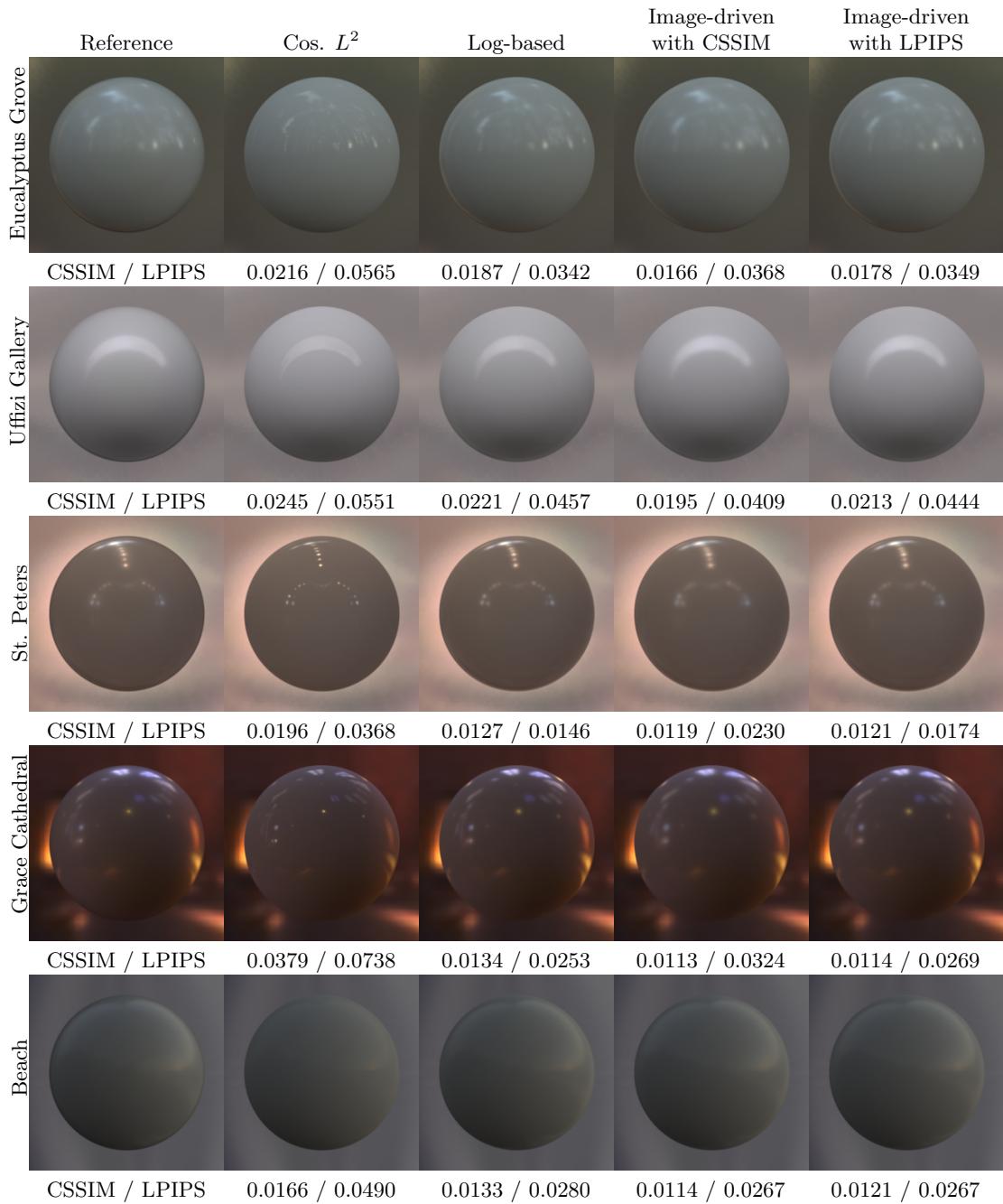
# white-fabric2

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0354	0.0310	0.0426	1.0000	1.0000	1.0000	0.9165	2.3607
Log-based	0.0619	0.0580	0.0688	0.9867	0.9994	0.9994	0.9223	1.9117
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.0271	0.0227	0.0343	1.0000	1.0000	1.0000	0.9256	2.5319
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.0271	0.0227	0.0343	1.0000	1.0000	1.0000	0.9256	2.5319



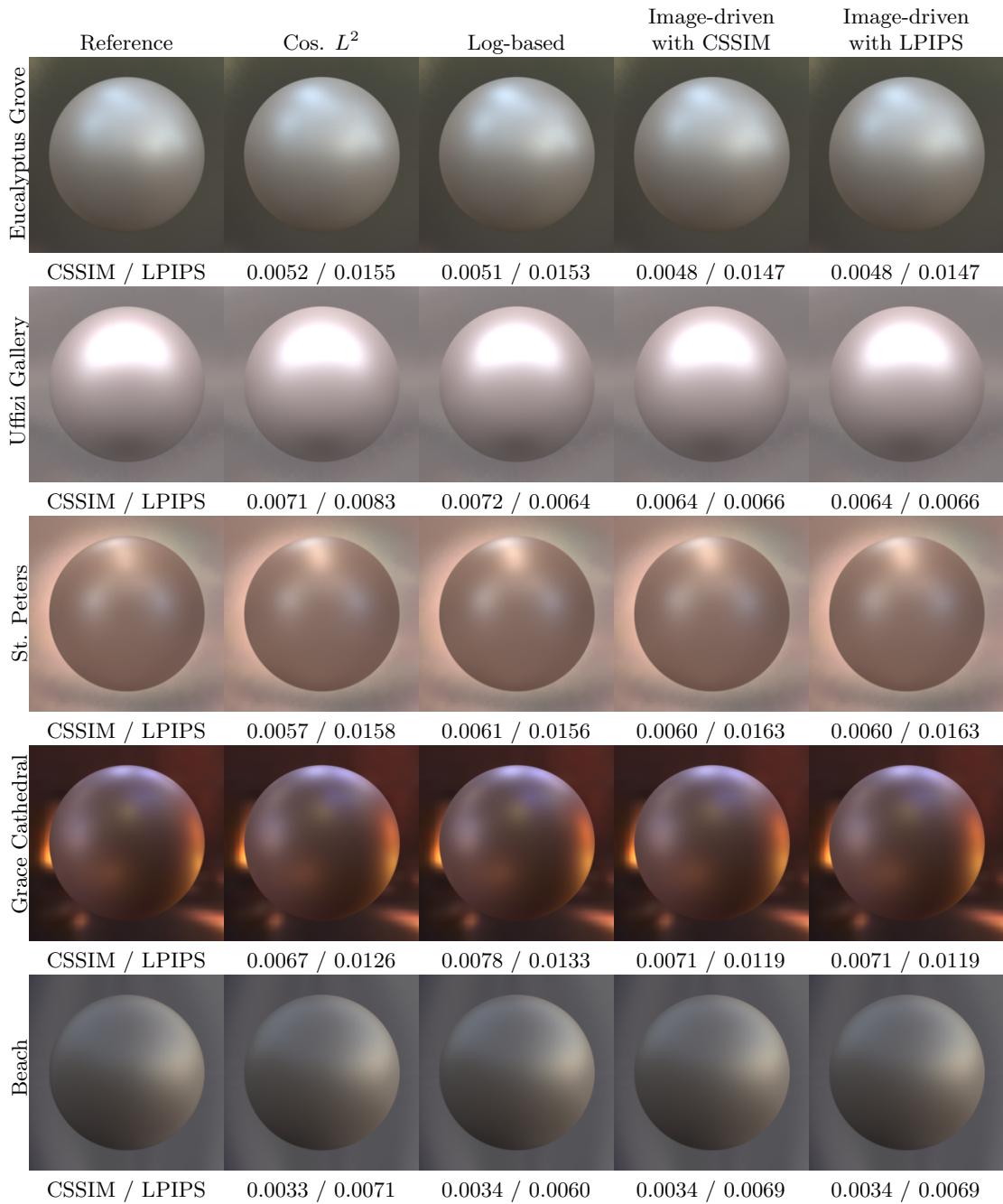
# gray-plastic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1122	0.1123	0.1051	0.0416	0.0404	0.0332	0.0069	1.8874
Log-based	0.1037	0.1039	0.0954	0.2215	0.2146	0.2078	0.0265	1.4317
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.1026	0.1026	0.0953	0.1971	0.2002	0.2008	0.0439	1.5822
Image-driven with LPIPS ( $\gamma = 2.3$ )	0.1038	0.1039	0.0966	0.2179	0.2174	0.2145	0.0346	1.5198



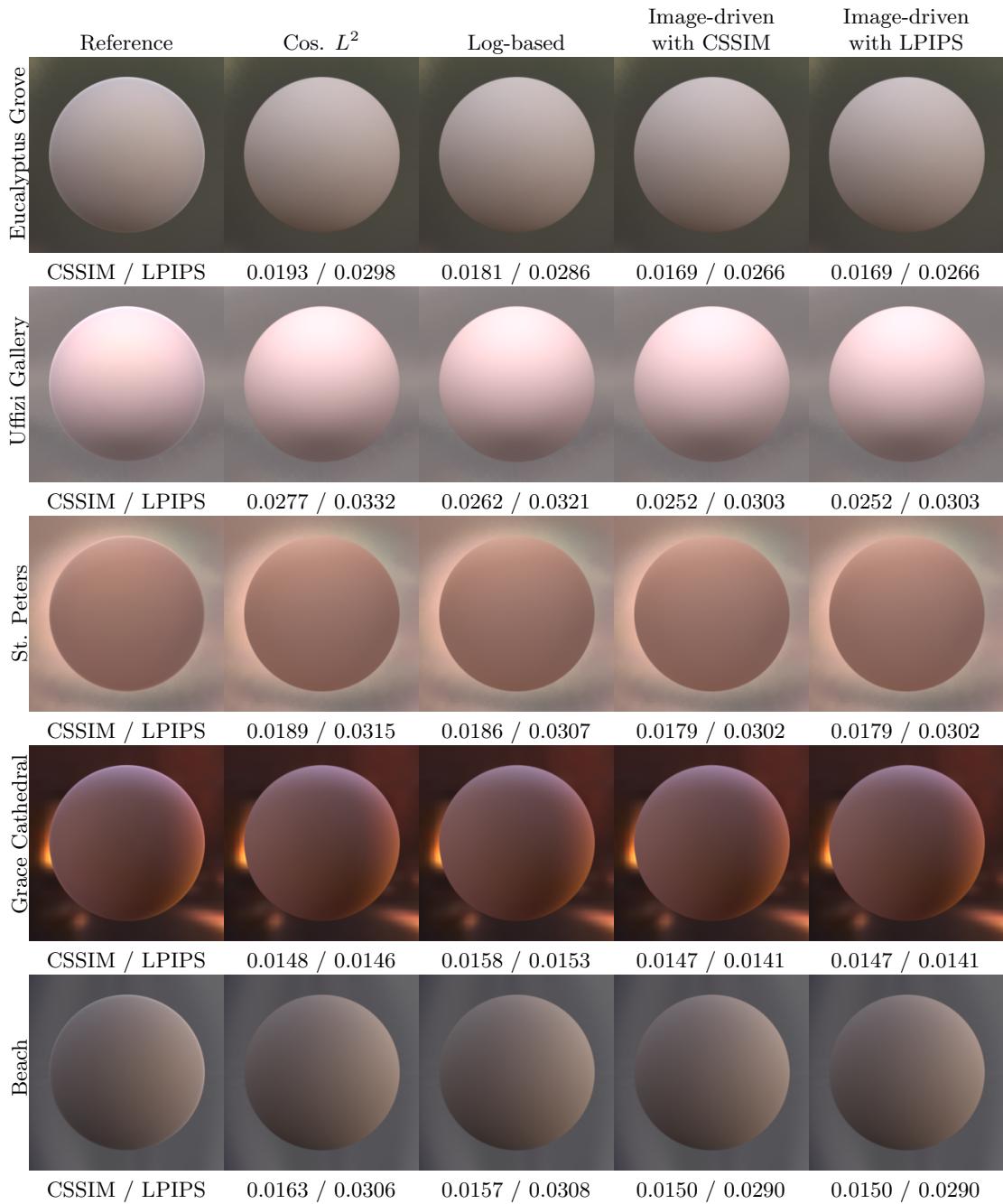
# silver-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1506	0.1174	0.0969	0.3548	0.3729	0.3866	0.2317	4.8131
Log-based	0.1387	0.1066	0.0870	0.3649	0.3821	0.3947	0.2253	4.9960
Image-driven with CSSIM ( $\gamma = 2.4$ )	0.1351	0.1021	0.0841	0.3832	0.3997	0.4066	0.2453	4.9960
Image-driven with LPIPS ( $\gamma = 2.4$ )	0.1351	0.1021	0.0841	0.3832	0.3997	0.4066	0.2453	4.9960



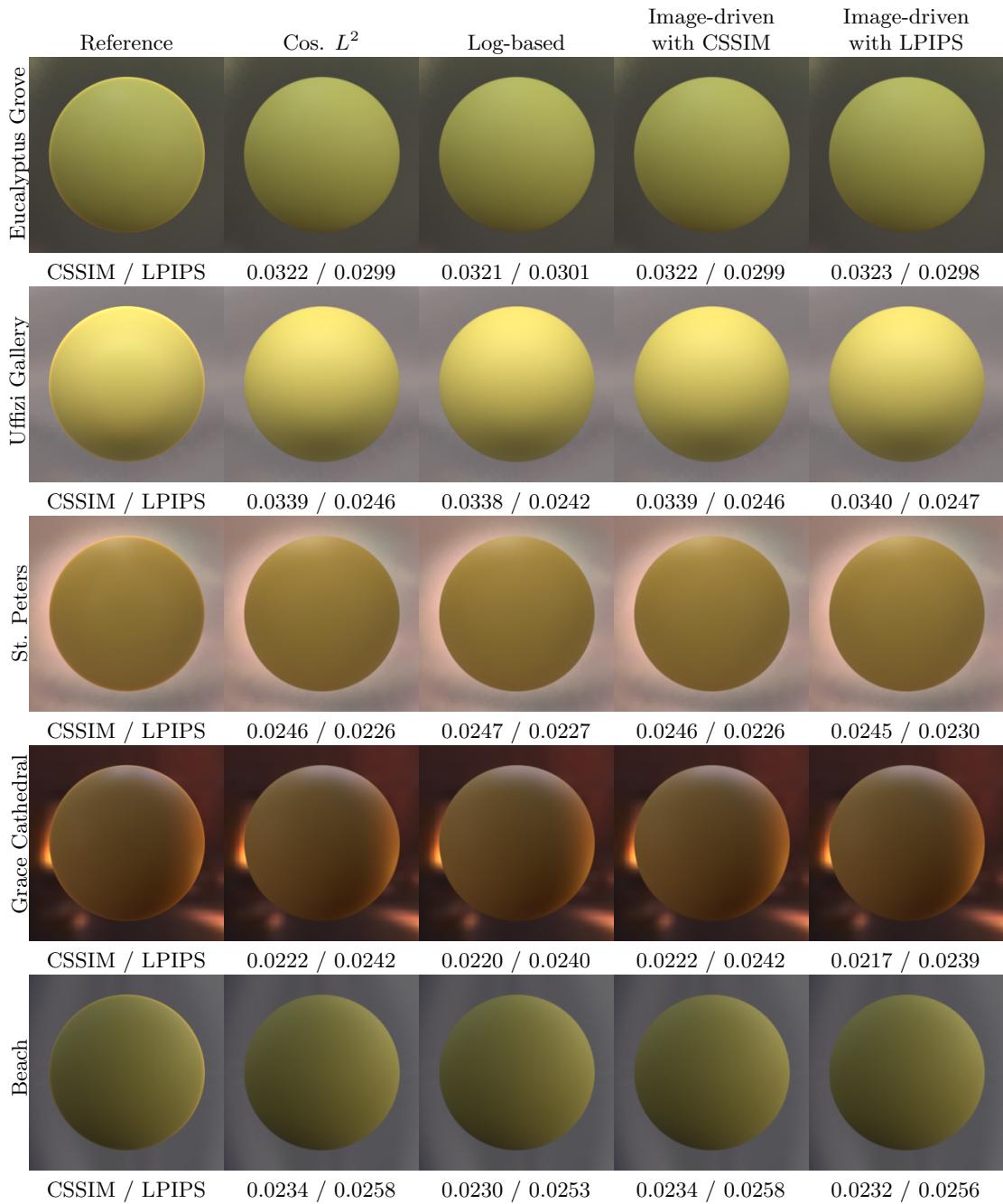
# pink-felt

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2394	0.1486	0.1237	0.9999	0.9999	0.9999	0.6696	2.2828
Log-based	0.2211	0.1176	0.1000	0.8793	0.9984	0.9418	0.7055	2.7437
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.2116	0.1220	0.0998	1.0000	1.0000	1.0000	0.7195	2.7362
Image-driven with LPIPS ( $\gamma = 3.0$ )	0.2116	0.1220	0.0998	1.0000	1.0000	1.0000	0.7195	2.7362



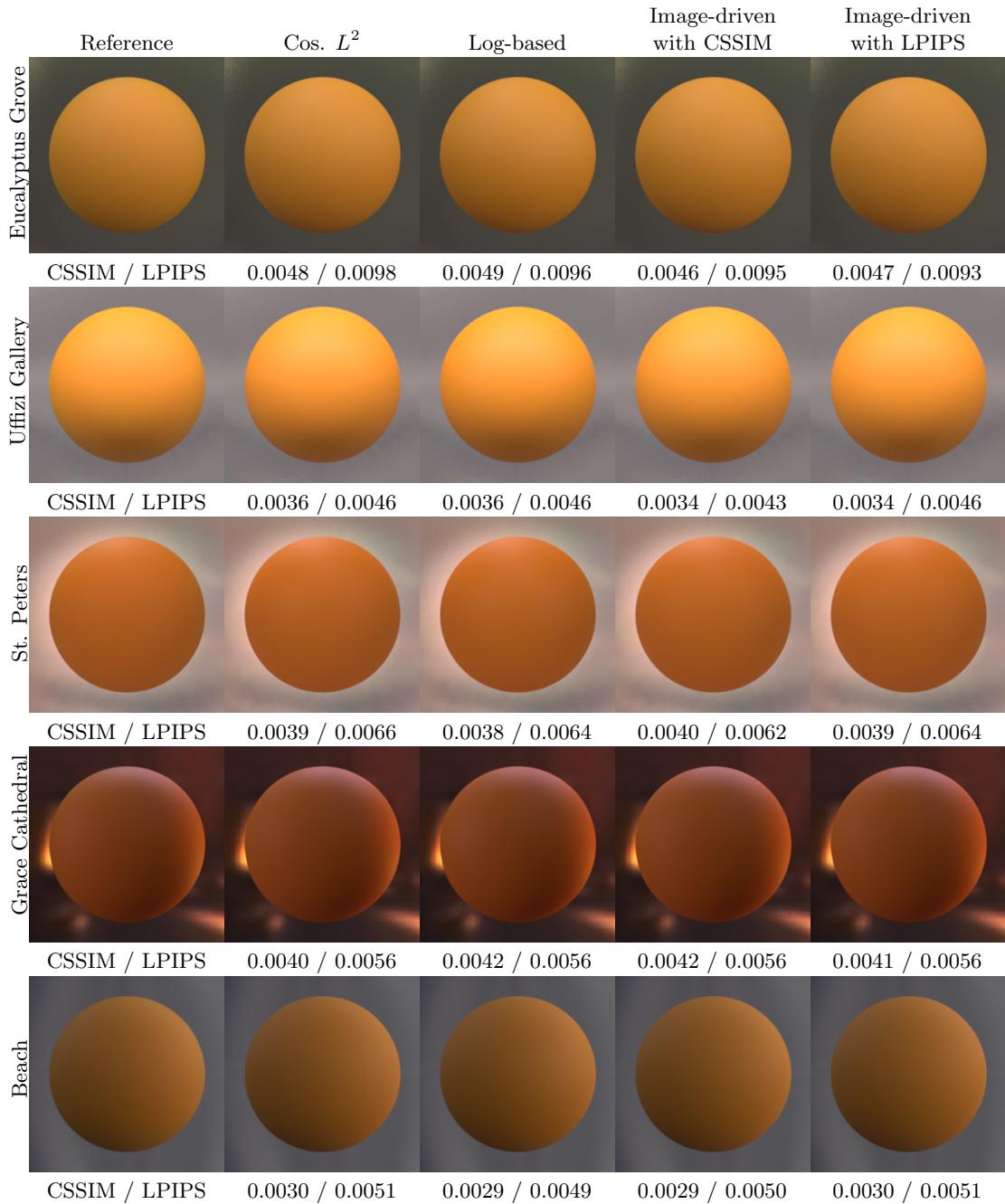
# yellow-plastic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2433	0.2095	0.0358	0.9777	0.9253	0.7832	0.3562	1.2752
Log-based	0.2449	0.2094	0.0348	0.9999	0.9999	0.8478	0.3930	1.2838
Image-driven with CSSIM ( $\gamma = 1.0$ )	0.2433	0.2095	0.0358	0.9777	0.9253	0.7832	0.3562	1.2752
Image-driven with LPIPS ( $\gamma = 1.2$ )	0.2415	0.2077	0.0353	1.0000	0.9600	0.7689	0.3726	1.2917



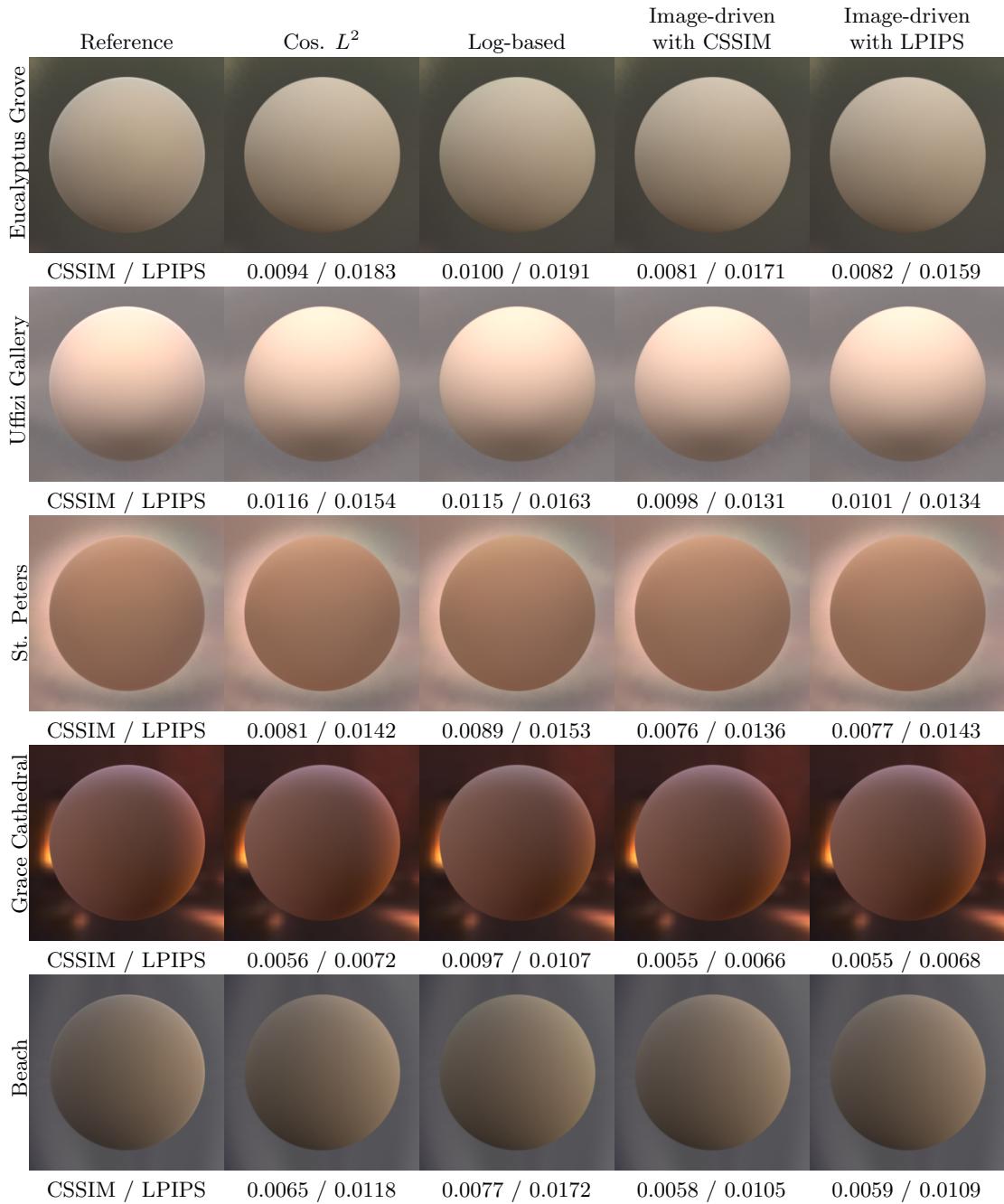
# orange-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.4149	0.1340	0.0052	0.5528	0.4800	0.4575	0.3546	1.4419
Log-based	0.4027	0.1283	0.0004	0.4955	0.3754	0.3598	0.3764	1.6461
Image-driven with CSSIM ( $\gamma = 2.1$ )	0.4106	0.1335	0.0033	0.6414	0.5210	0.5179	0.3917	1.4527
Image-driven with LPIPS ( $\gamma = 1.5$ )	0.4125	0.1337	0.0041	0.6227	0.5204	0.5081	0.3797	1.4395



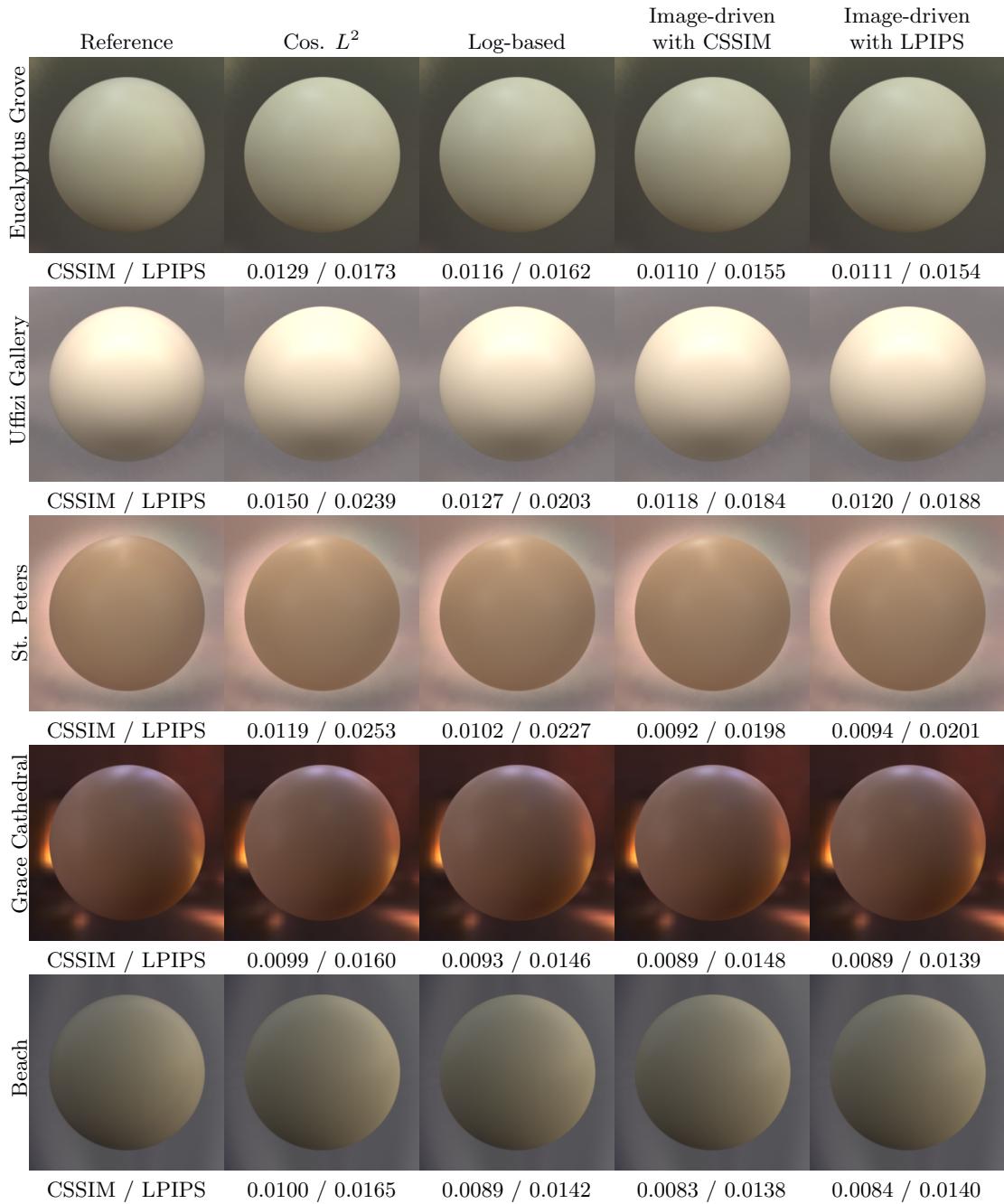
# white-fabric

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2648	0.1656	0.0910	0.9999	0.9999	0.9999	0.7968	2.2789
Log-based	0.2855	0.1303	0.0902	0.4047	0.8793	0.5980	0.7914	3.0719
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.2510	0.1529	0.0800	1.0000	1.0000	1.0000	0.8308	2.5280
Image-driven with LPIPS ( $\gamma = 2.4$ )	0.2535	0.1552	0.0820	1.0000	1.0000	1.0000	0.8267	2.4844



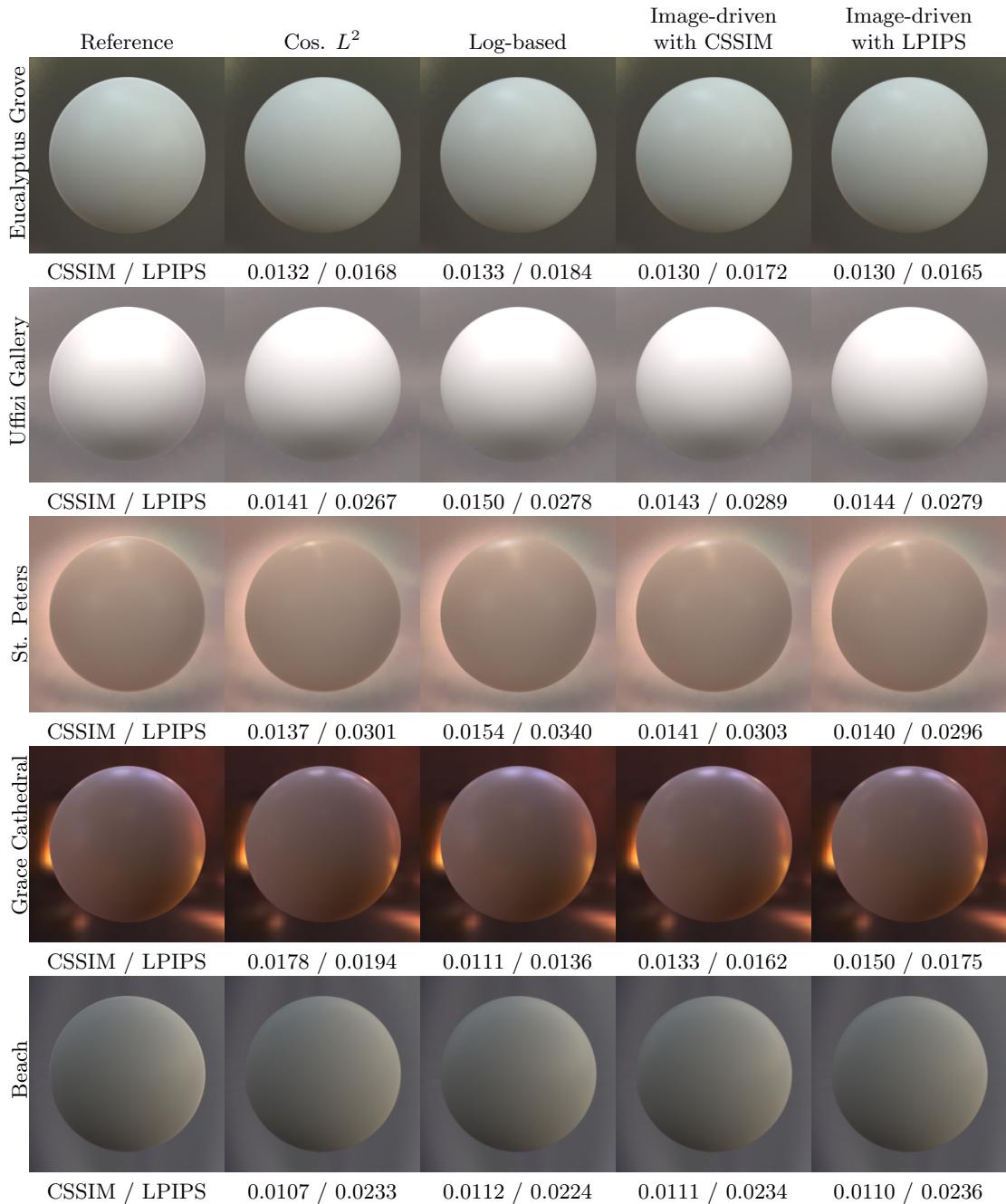
# white-diffuse-bball

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.3248	0.2775	0.1798	0.3739	0.3593	0.3485	0.1580	1.4300
Log-based	0.3202	0.2731	0.1781	0.3025	0.2999	0.2845	0.1665	1.5718
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.3186	0.2700	0.1758	0.2645	0.2678	0.2528	0.1637	1.6114
Image-driven with LPIPS ( $\gamma = 2.7$ )	0.3191	0.2706	0.1761	0.2708	0.2737	0.2595	0.1629	1.5960



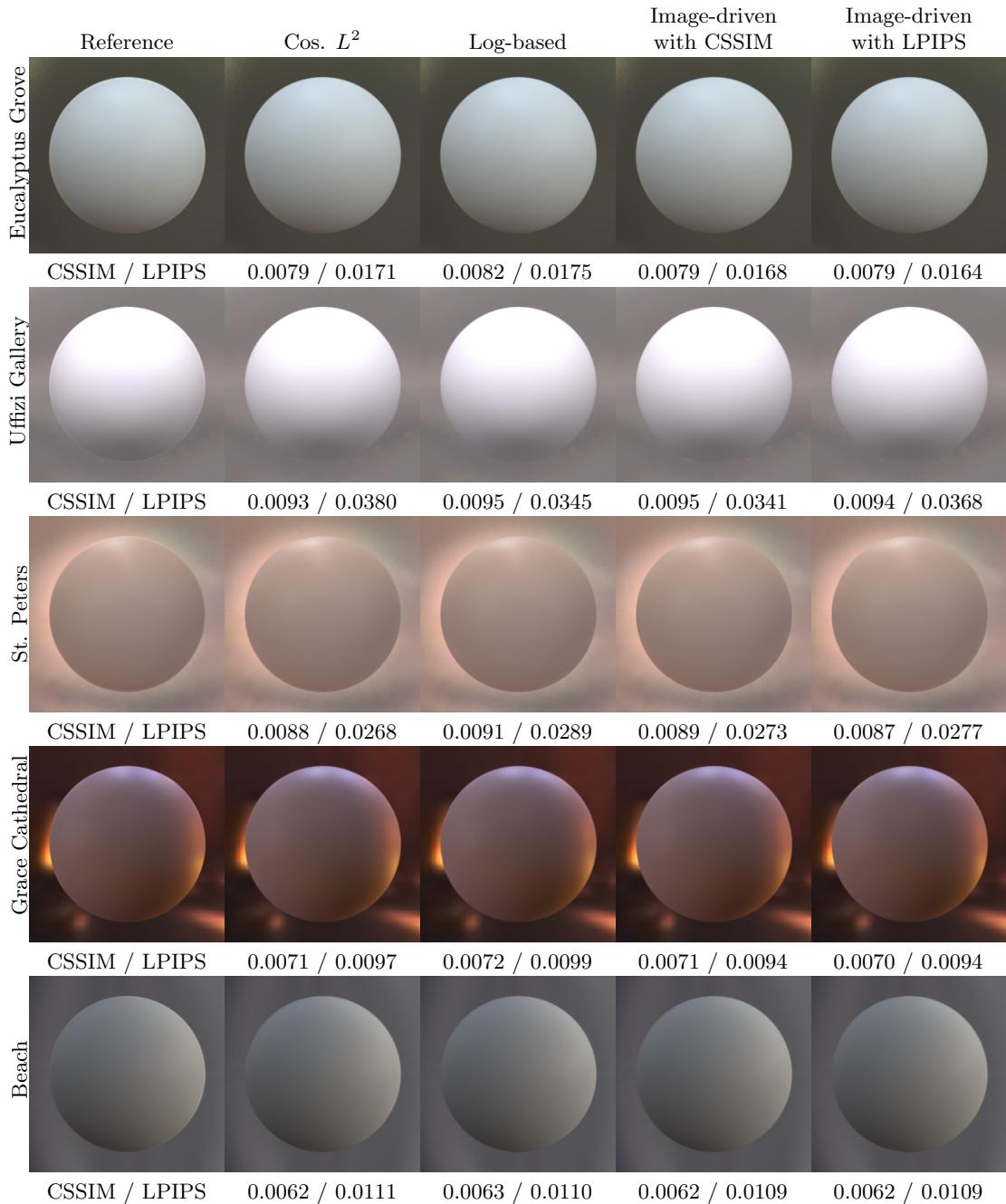
# delrin

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.3144	0.3036	0.2655	0.4757	0.3789	0.3044	0.0626	1.1297
Log-based	0.3051	0.2928	0.2544	0.3282	0.3204	0.3302	0.1363	1.4742
Image-driven with CSSIM ( $\gamma = 1.3$ )	0.3081	0.2971	0.2590	0.3873	0.3486	0.3299	0.0971	1.3012
Image-driven with LPIPS ( $\gamma = 1.2$ )	0.3104	0.2996	0.2616	0.3954	0.3402	0.3068	0.0816	1.2423



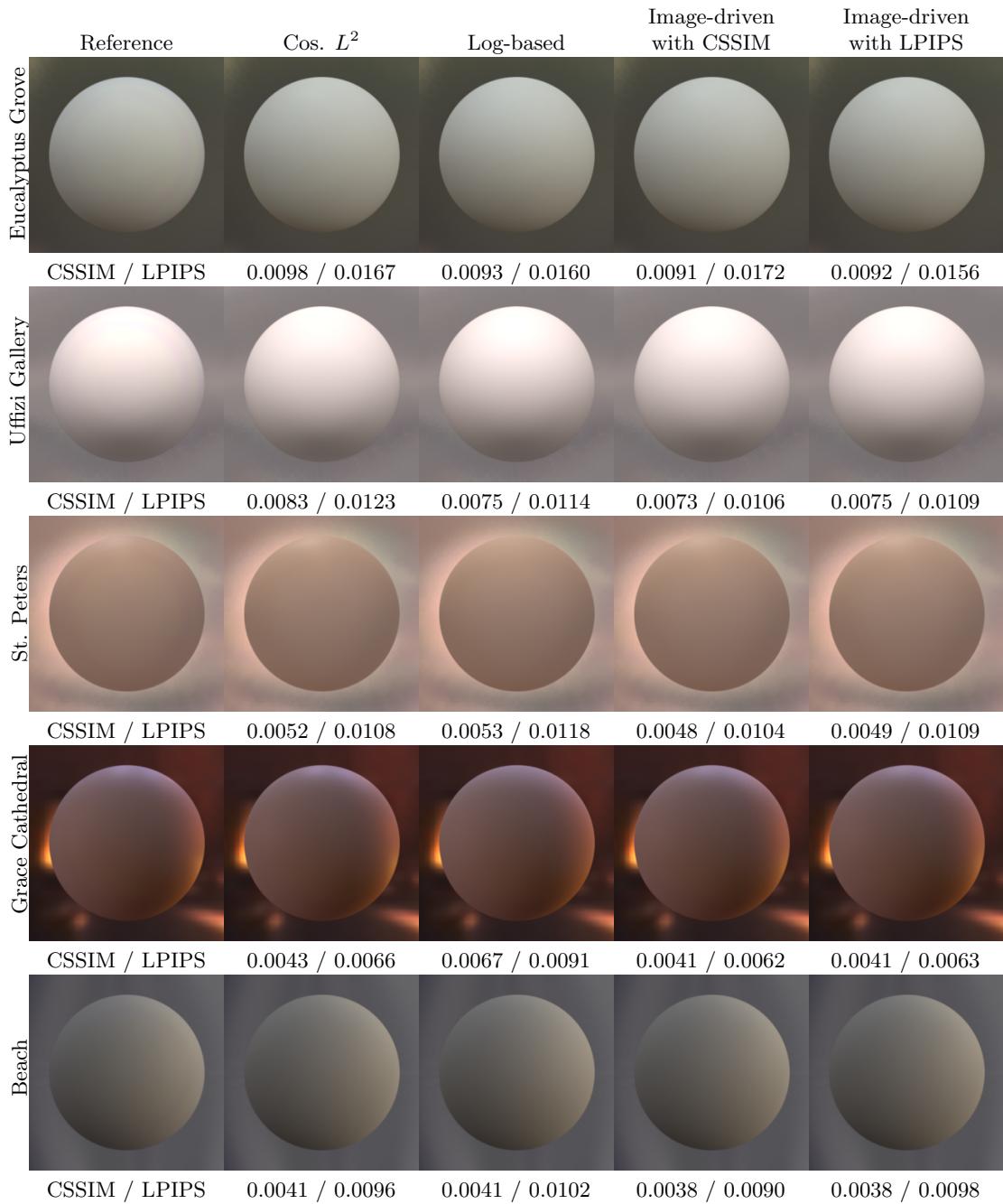
# teflon

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.3222	0.3163	0.3071	0.5760	0.5666	0.5692	0.2108	1.3863
Log-based	0.3227	0.3151	0.3073	0.4262	0.4361	0.4515	0.2069	1.4830
Image-driven with CSSIM ( $\gamma = 2.0$ )	0.3206	0.3136	0.3029	0.4480	0.4555	0.4755	0.2122	1.4765
Image-driven with LPIPS ( $\gamma = 1.3$ )	0.3217	0.3154	0.3054	0.5118	0.5118	0.5243	0.2089	1.4204



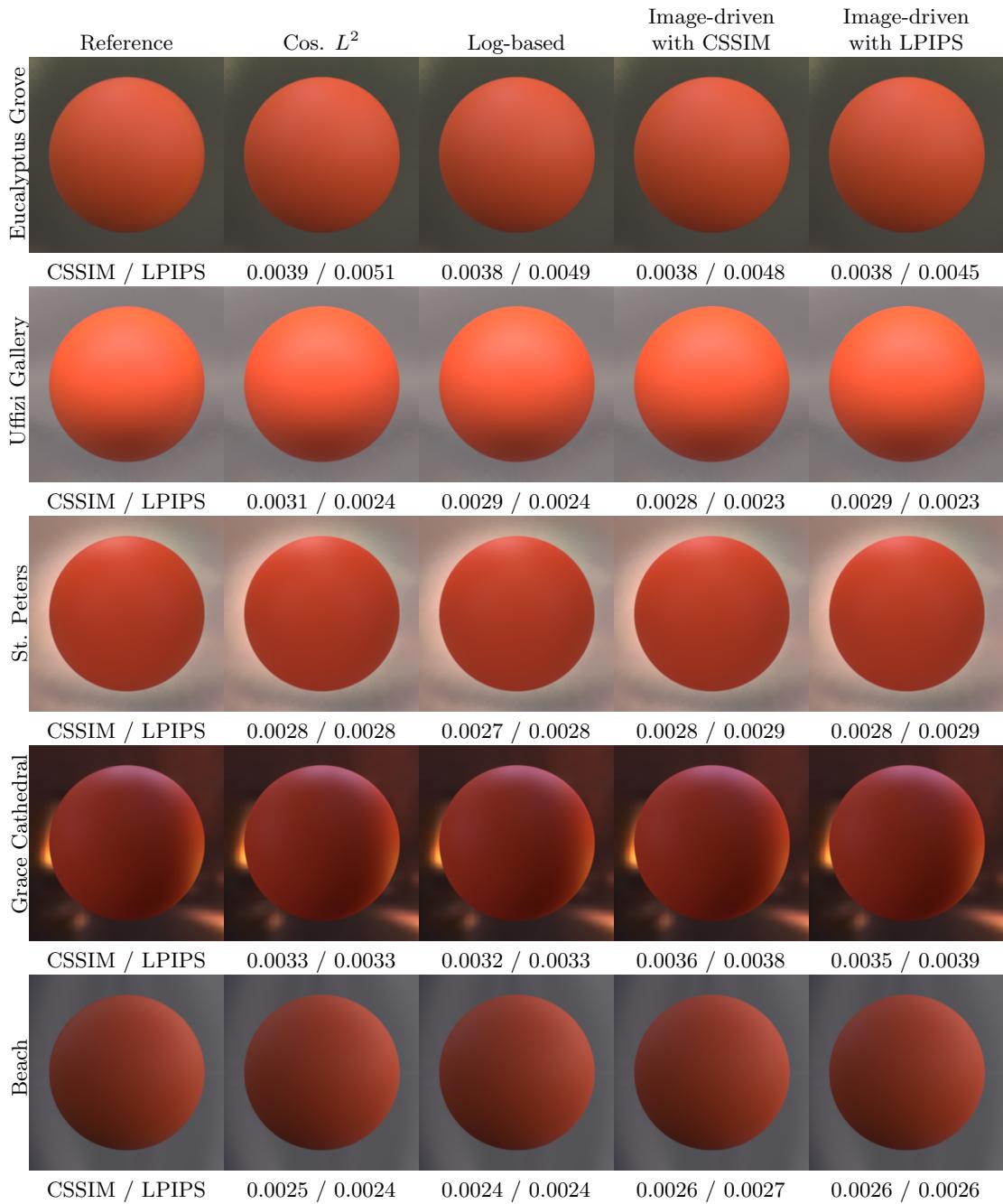
# pure-rubber

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2935	0.2587	0.2159	0.3985	0.3735	0.3511	0.2352	1.3003
Log-based	0.2230	0.1859	0.1469	0.4281	0.4320	0.4125	0.6273	3.5562
Image-driven with CSSIM ( $\gamma = 2.9$ )	0.2873	0.2522	0.2122	0.3853	0.3771	0.3353	0.2982	1.4368
Image-driven with LPIPS ( $\gamma = 2.2$ )	0.2885	0.2533	0.2128	0.3938	0.3843	0.3455	0.2887	1.4081



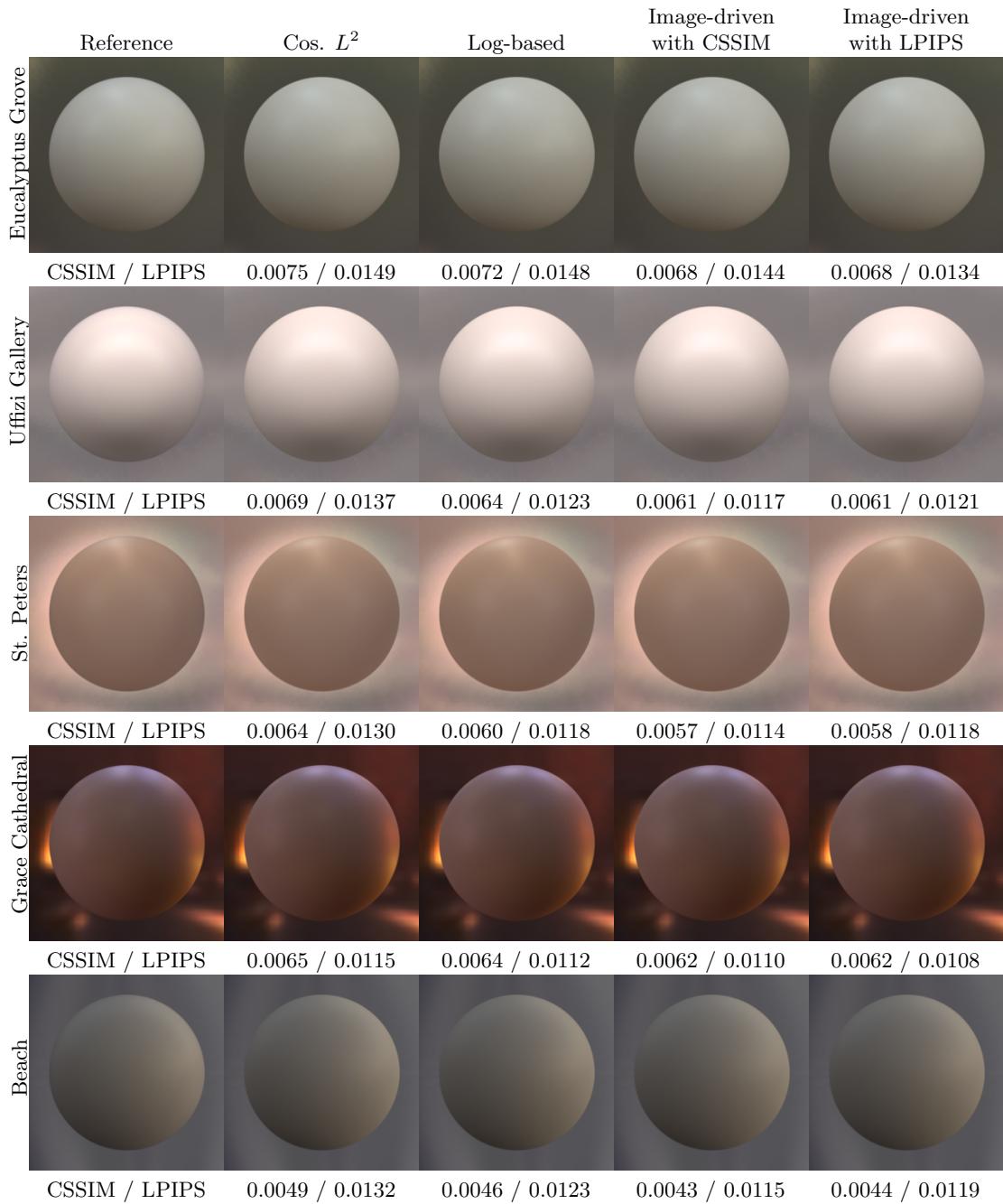
# light-red-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.4183	0.0394	0.0074	0.5531	0.5084	0.5238	0.3295	1.4158
Log-based	0.4075	0.0382	0.0056	0.5348	0.4534	0.4796	0.3402	1.4935
Image-driven with CSSIM ( $\gamma = 2.6$ )	0.4152	0.0391	0.0041	0.5775	0.4872	0.5776	0.3559	1.4499
Image-driven with LPIPS ( $\gamma = 2.3$ )	0.4155	0.0391	0.0042	0.5788	0.4931	0.5785	0.3540	1.4452



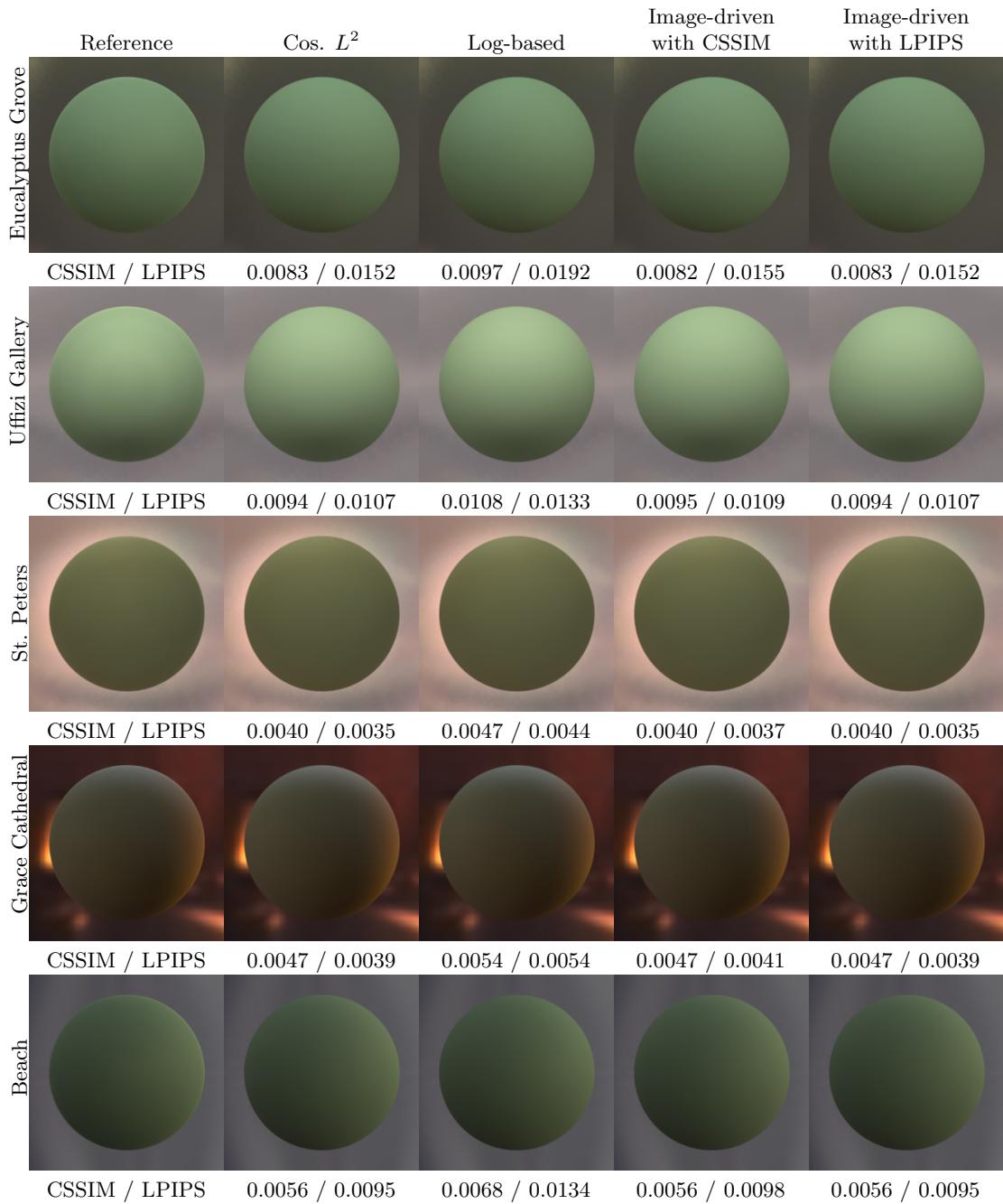
# neoprene-rubber

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2511	0.2130	0.1711	0.3032	0.2969	0.2834	0.2007	1.6717
Log-based	0.2489	0.2112	0.1701	0.2691	0.2664	0.2483	0.1994	1.7685
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.2487	0.2101	0.1706	0.2616	0.2660	0.2459	0.2018	1.7615
Image-driven with LPIPS ( $\gamma = 2.9$ )	0.2487	0.2101	0.1706	0.2625	0.2666	0.2468	0.2017	1.7588



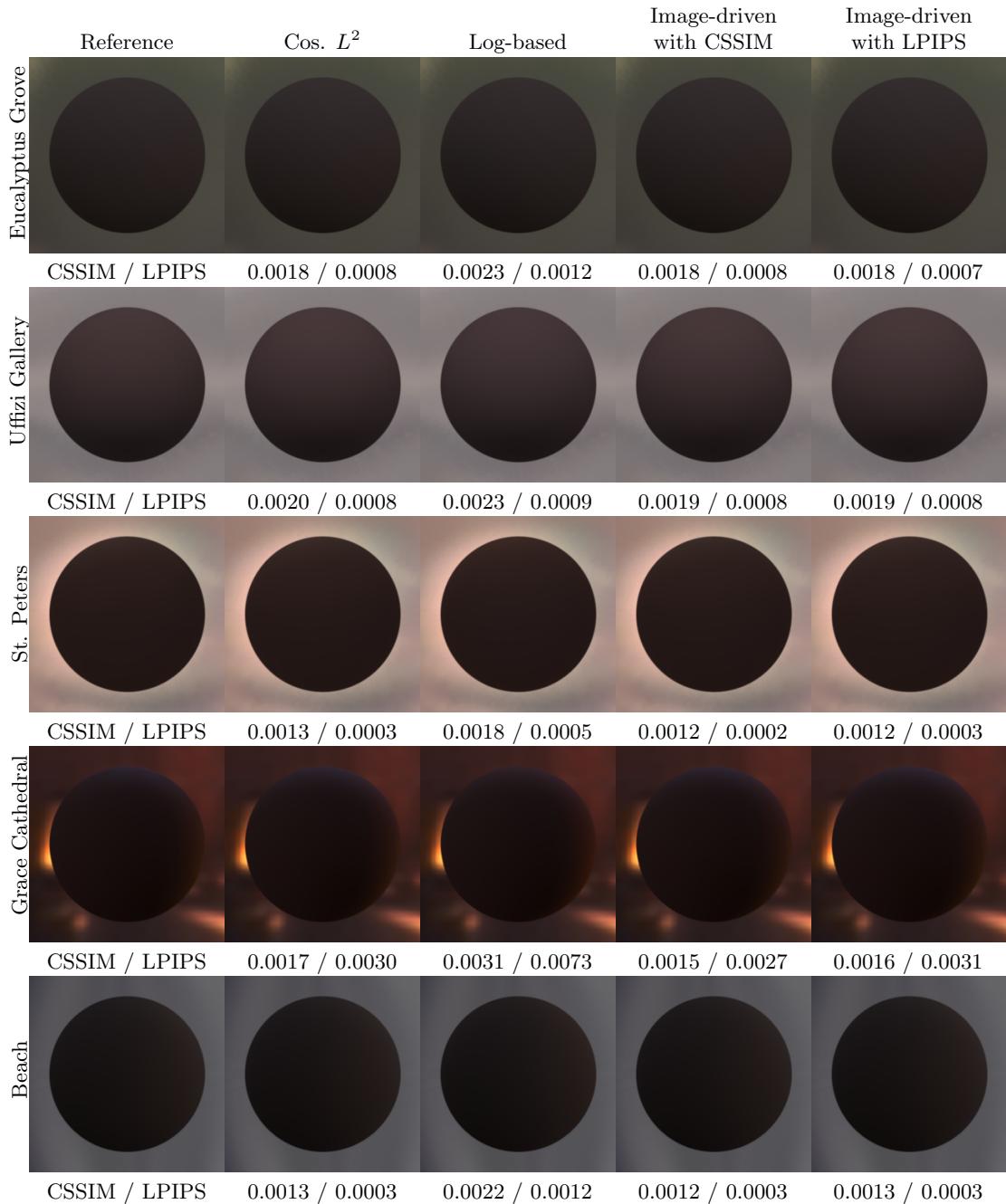
# green-latex

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0634	0.0978	0.0424	0.7184	0.8012	0.4875	0.6364	1.8385
Log-based	0.0746	0.1039	0.0453	0.4340	0.5629	0.3471	0.5629	1.9352
Image-driven with CSSIM ( $\gamma = 1.3$ )	0.0609	0.0951	0.0410	0.6937	0.7774	0.4661	0.6394	1.9005
Image-driven with LPIPS ( $\gamma = 1.0$ )	0.0634	0.0978	0.0424	0.7184	0.8012	0.4875	0.6364	1.8385



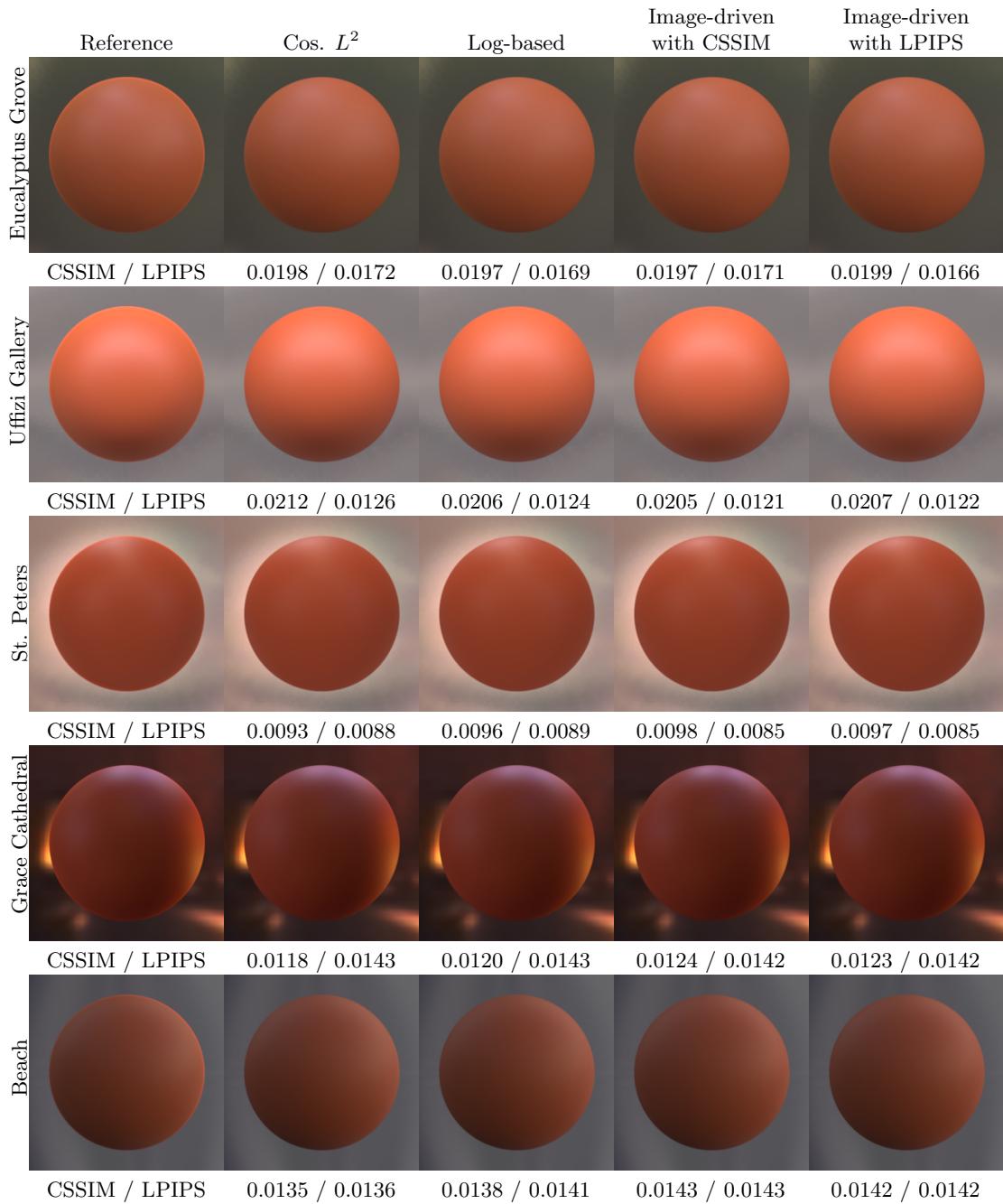
# black-fabric

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0124	0.0065	0.0060	0.3085	0.2616	0.2565	0.7257	1.2965
Log-based	0.0092	0.0063	0.0063	0.3041	0.1547	0.1283	0.7436	1.4469
Image-driven with CSSIM ( $\gamma = 1.7$ )	0.0129	0.0070	0.0065	0.3206	0.2658	0.2609	0.7042	1.2505
Image-driven with LPIPS ( $\gamma = 1.1$ )	0.0124	0.0066	0.0061	0.3167	0.2648	0.2630	0.7252	1.2853



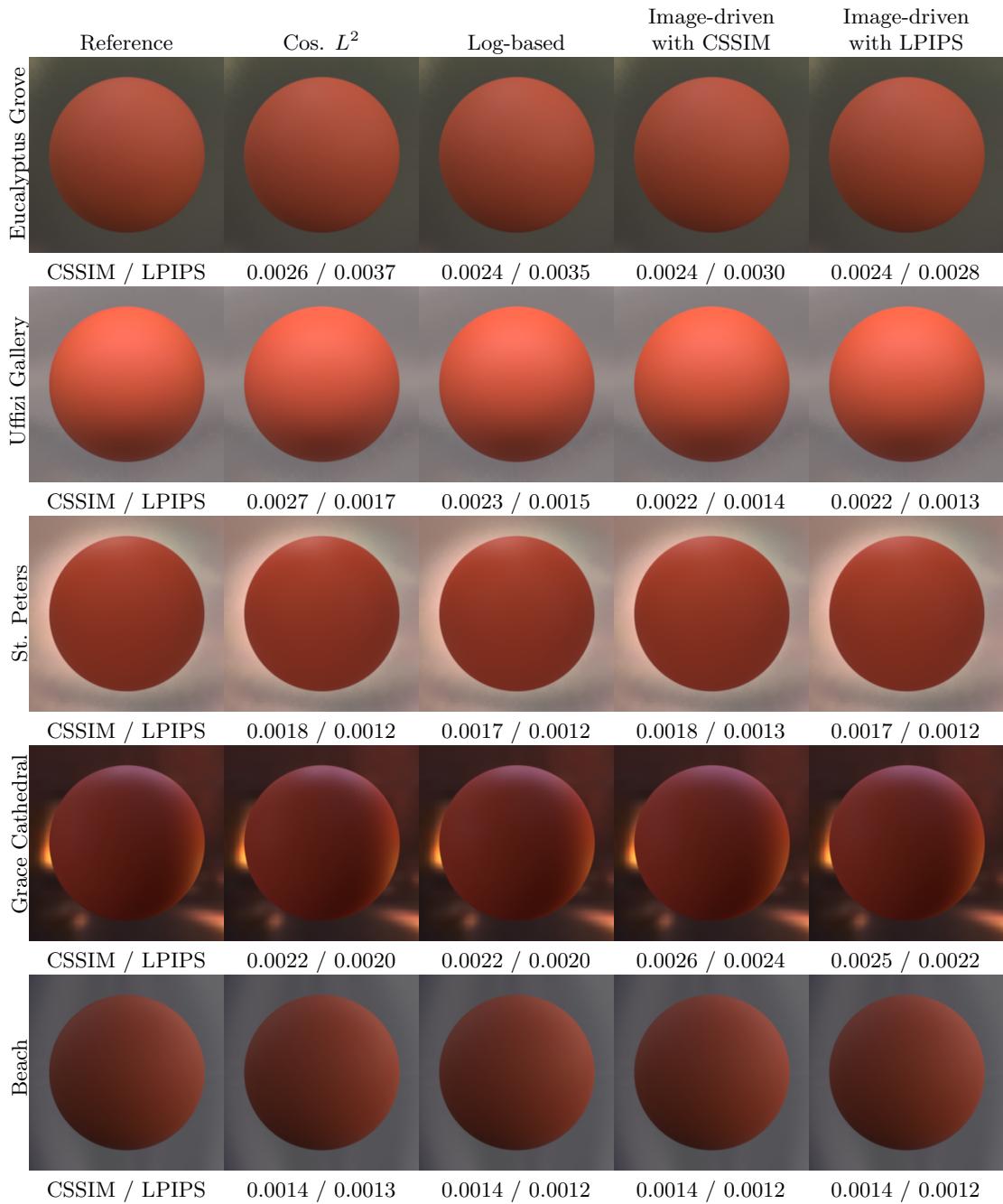
# red-plastic

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2653	0.0413	0.0083	0.6823	0.6337	0.6248	0.3164	1.4779
Log-based	0.2700	0.0444	0.0104	0.5995	0.5831	0.5824	0.2998	1.4579
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.2701	0.0464	0.0125	0.5485	0.4941	0.4971	0.2642	1.4653
Image-driven with LPIPS ( $\gamma = 2.0$ )	0.2690	0.0456	0.0120	0.5623	0.5103	0.5090	0.2738	1.4706



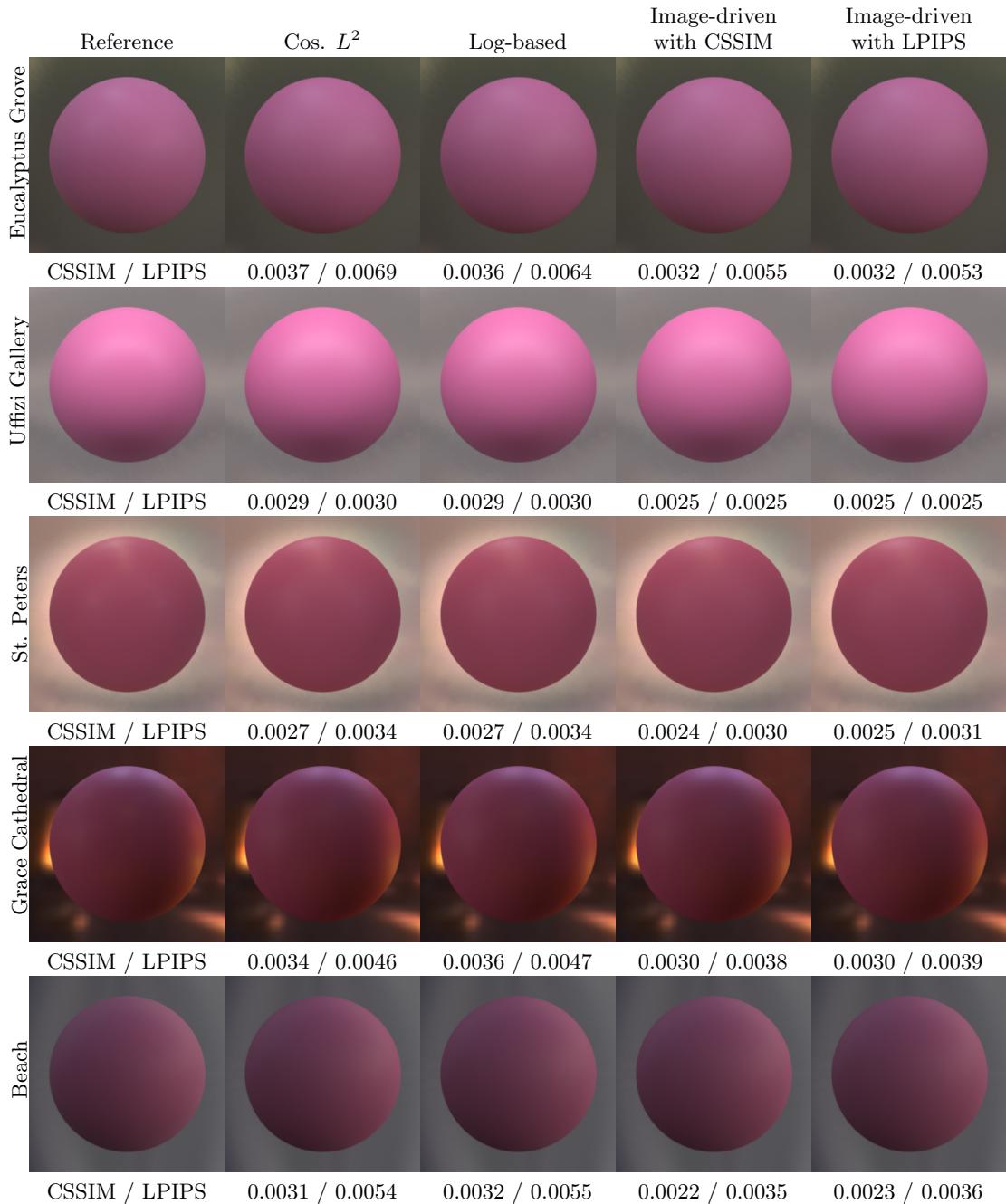
# dark-red-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2584	0.0345	0.0133	0.5873	0.5257	0.4994	0.3343	1.2784
Log-based	0.2539	0.0321	0.0107	0.5241	0.4505	0.4390	0.3659	1.3839
Image-driven with CSSIM ( $\gamma = 2.9$ )	0.2508	0.0300	0.0064	0.6375	0.5387	0.6009	0.4356	1.3999
Image-driven with LPIPS ( $\gamma = 2.3$ )	0.2518	0.0304	0.0071	0.6428	0.5504	0.6045	0.4248	1.3815



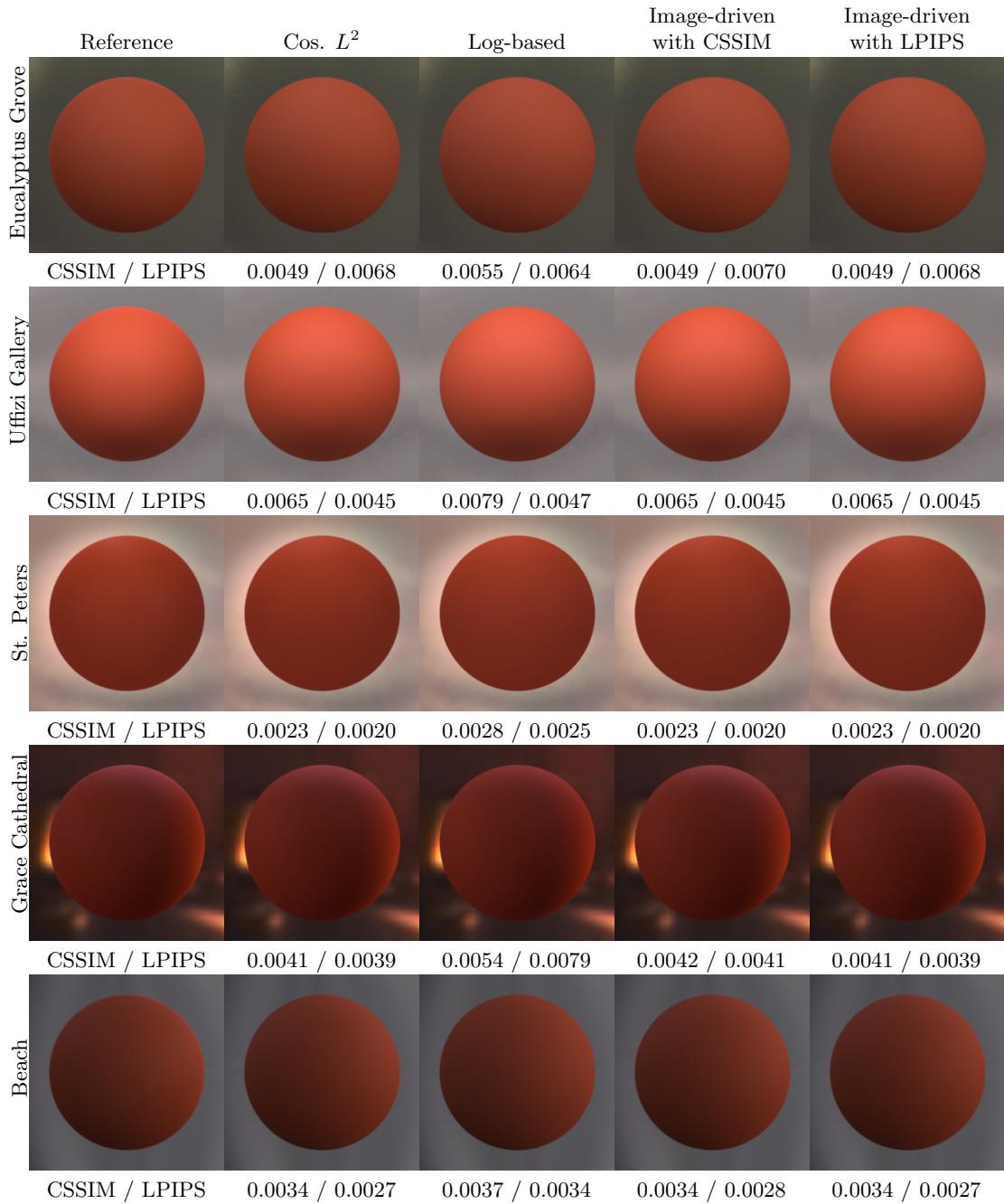
# violet-rubber

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.2433	0.0533	0.1181	0.2393	0.2254	0.2329	0.2519	1.7167
Log-based	0.2418	0.0542	0.1176	0.2416	0.2154	0.2285	0.2497	1.7127
Image-driven with CSSIM ( $\gamma = 2.9$ )	0.2423	0.0546	0.1184	0.3364	0.3019	0.3292	0.2763	1.5669
Image-driven with LPIPS ( $\gamma = 2.6$ )	0.2424	0.0546	0.1184	0.3273	0.2940	0.3199	0.2738	1.5766



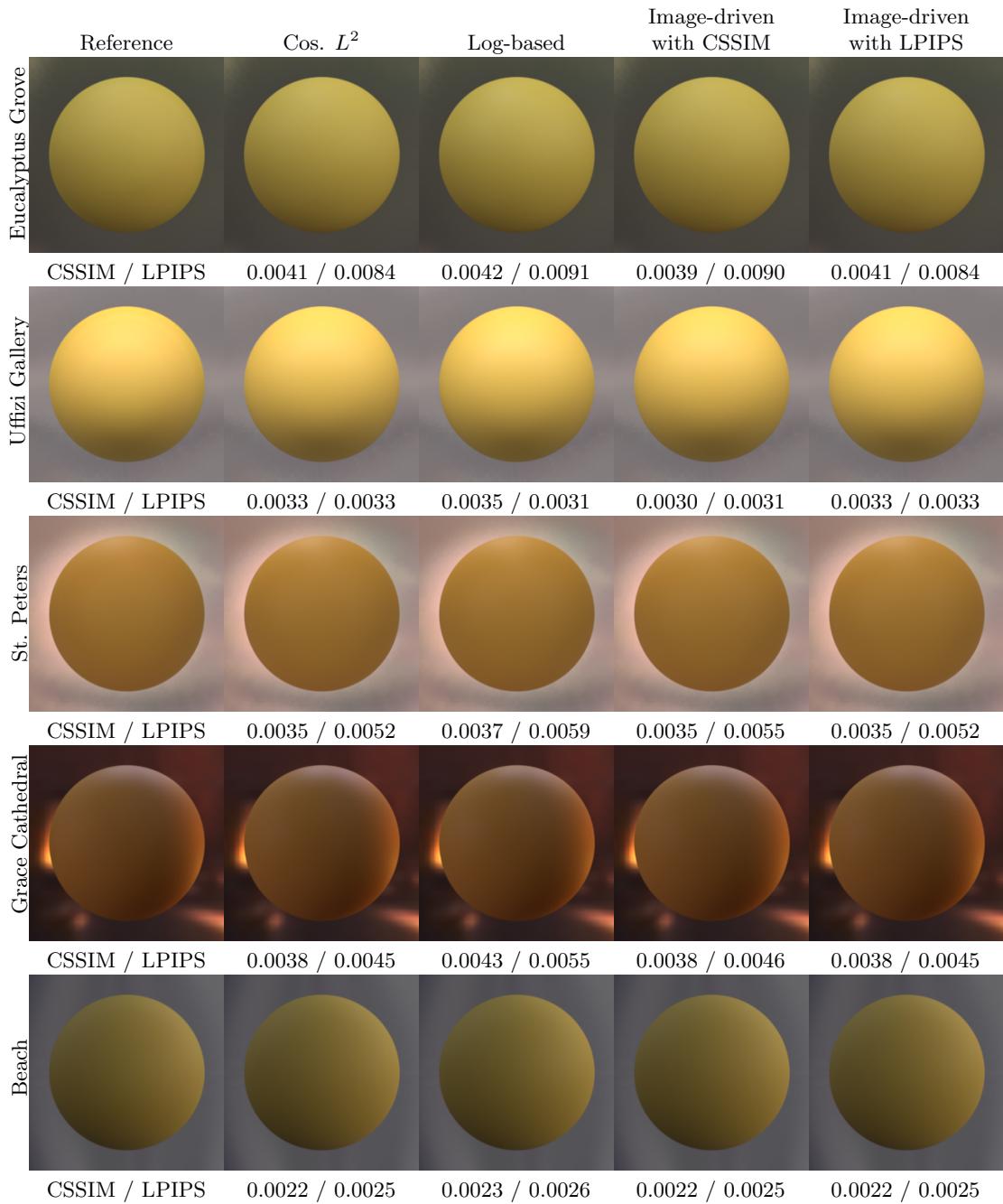
# red-fabric

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.1728	0.0163	0.0004	0.5512	0.1791	0.1532	0.5331	2.0641
Log-based	0.1557	0.0180	0.0043	0.4359	0.0941	0.0668	0.5824	2.9937
Image-driven with CSSIM ( $\gamma = 1.1$ )	0.1759	0.0177	0.0017	0.5307	0.1685	0.1425	0.5175	2.0133
Image-driven with LPIPS ( $\gamma = 1.0$ )	0.1728	0.0163	0.0004	0.5512	0.1791	0.1532	0.5331	2.0641



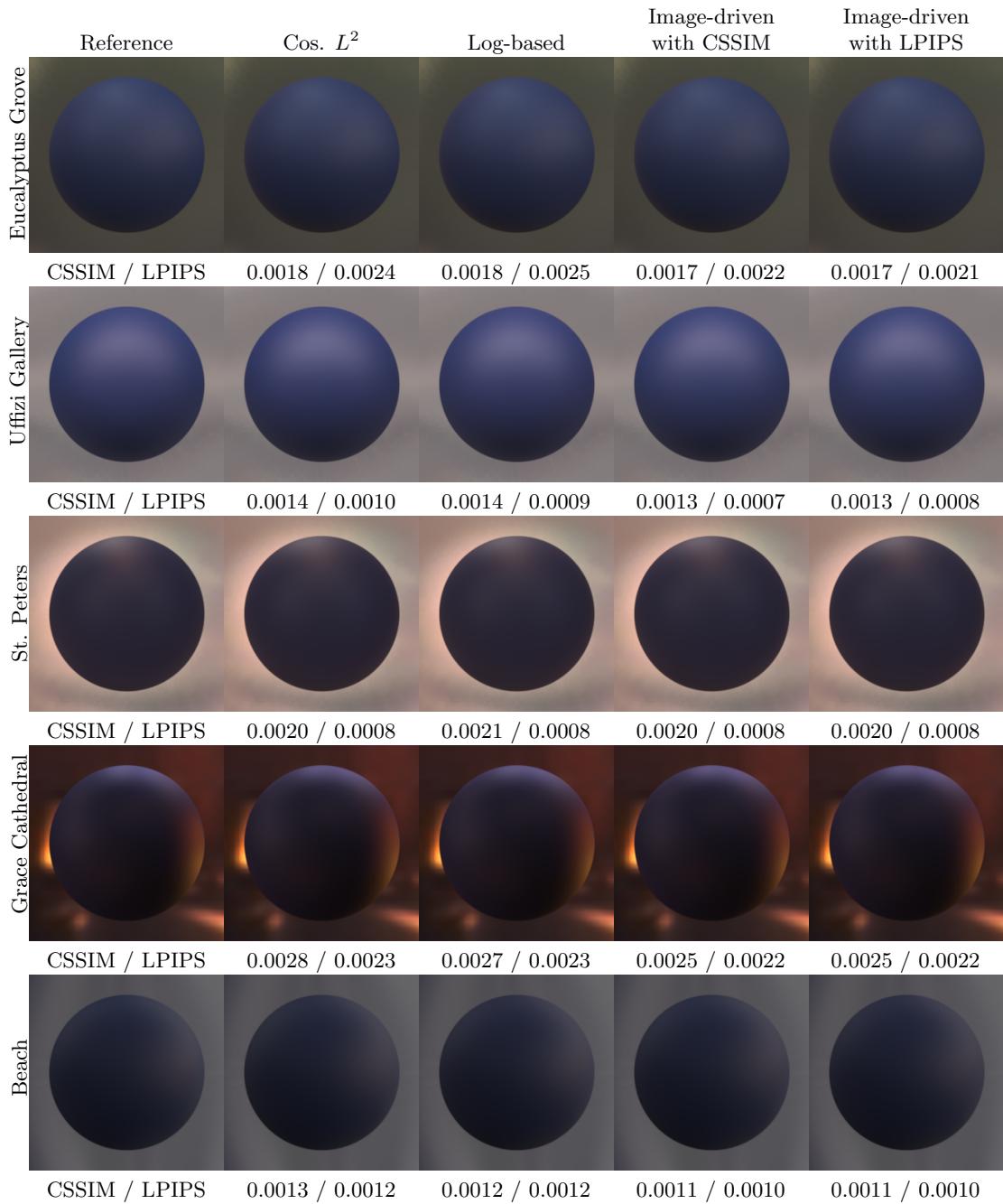
# yellow-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.3052	0.1987	0.0279	0.4237	0.4188	0.3796	0.3103	1.4135
Log-based	0.2997	0.1957	0.0248	0.3441	0.3500	0.2924	0.3275	1.6070
Image-driven with CSSIM ( $\gamma = 2.7$ )	0.2996	0.1925	0.0239	0.4565	0.4771	0.4214	0.3697	1.4925
Image-driven with LPIPS ( $\gamma = 1.0$ )	0.3052	0.1987	0.0279	0.4237	0.4188	0.3796	0.3103	1.4135



# dark-blue-paint

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0006	0.0058	0.0333	0.4969	0.4248	0.4418	0.3650	1.5839
Log-based	0.0023	0.0072	0.0346	0.4975	0.4252	0.4425	0.3588	1.5533
Image-driven with CSSIM ( $\gamma = 3.0$ )	0.0023	0.0082	0.0355	0.4820	0.3960	0.4249	0.3467	1.5511
Image-driven with LPIPS ( $\gamma = 1.9$ )	0.0023	0.0080	0.0352	0.4867	0.4038	0.4313	0.3495	1.5504



# blue-rubber

Metric	$D_r$	$D_g$	$D_b$	$S_r$	$S_g$	$S_b$	$\alpha$	IoR
Cos. $L^2$	0.0379	0.0768	0.1576	0.6136	0.5904	0.5752	0.2437	1.2785
Log-based	0.0357	0.0743	0.1549	0.6204	0.6142	0.6038	0.2677	1.3088
Image-driven with CSSIM ( $\gamma = 2.3$ )	0.0362	0.0742	0.1546	0.6006	0.6190	0.6123	0.2787	1.3218
Image-driven with LPIPS ( $\gamma = 1.1$ )	0.0375	0.0763	0.1570	0.6221	0.6052	0.5910	0.2497	1.2836

