Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P436805

Luminaire Tested: **TT-D3-740-U-5MQ-PM-HSS**

Issue Date: 12/2/2020

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P436805
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-1)
Test Lab:	INNOVATION CENTER
Issue Date:	12/2/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D3-740-U-5MQ-PM-HSS
Description:	TOPTIER LED SITE LUMINAIRE
	4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5658.9 lumens
Efficiency:	N/A
Efficacy:	119.9 lumens/watt
Luminous Opening:	Circular (Dia: 1.12' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U2 - G2

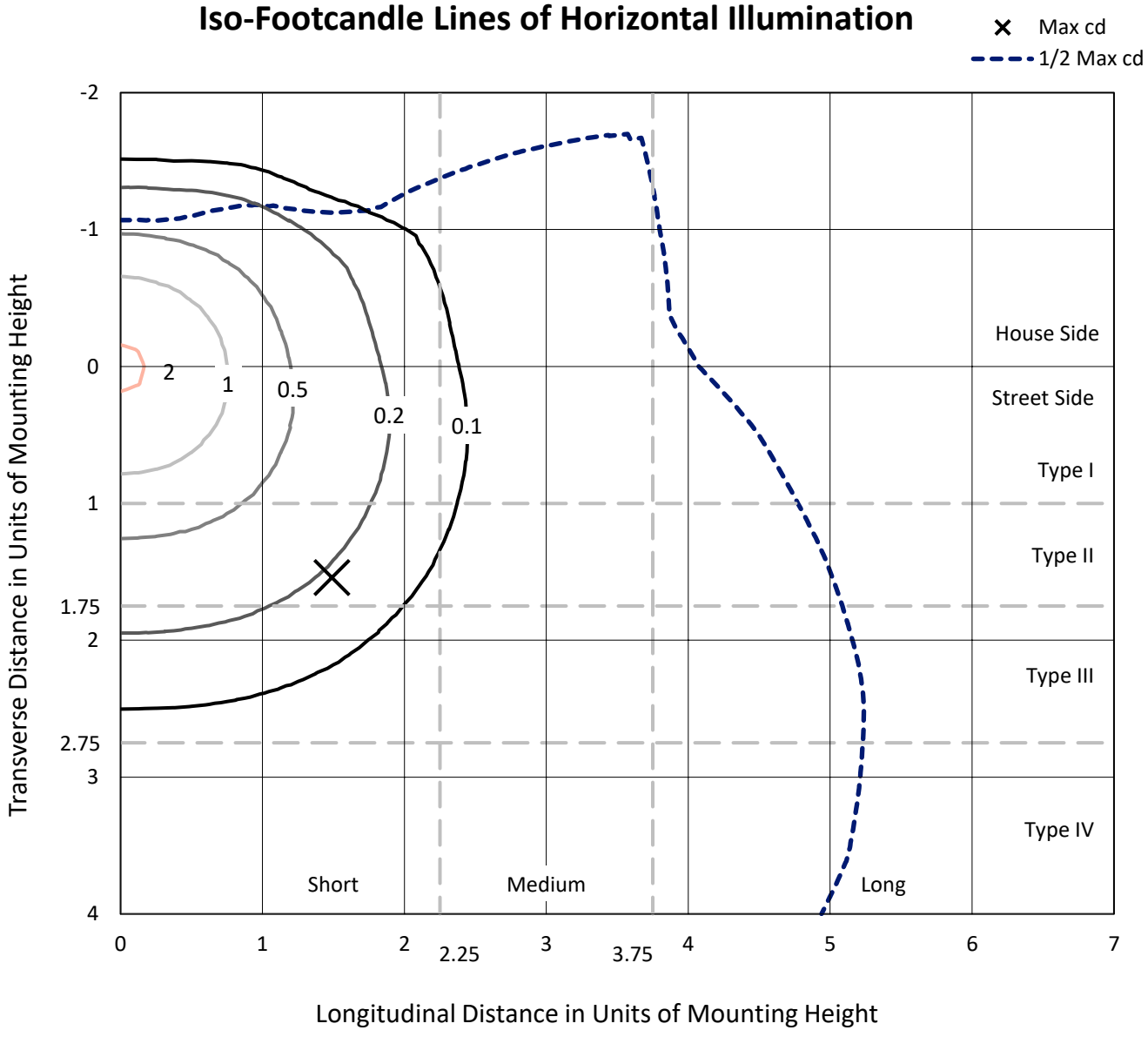
Input Watts (W):	47.2
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P436805
CATALOG NUMBER: TT-D3-740-U-5MQ-PM-HSS

Iso-Footcandle Lines of Horizontal Illumination



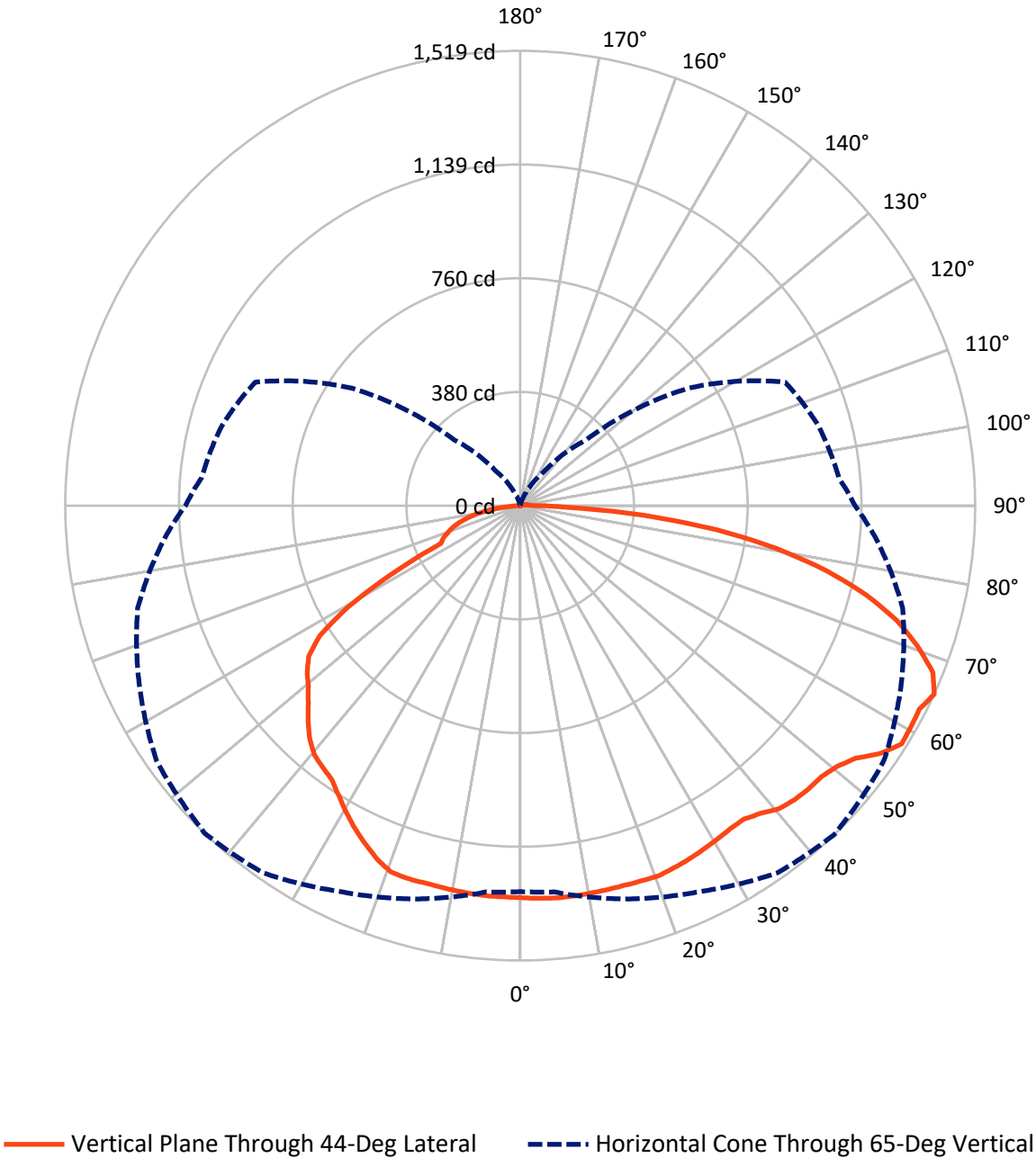
Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Short - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P436805
CATALOG NUMBER: TT-D3-740-U-5MQ-PM-HSS

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

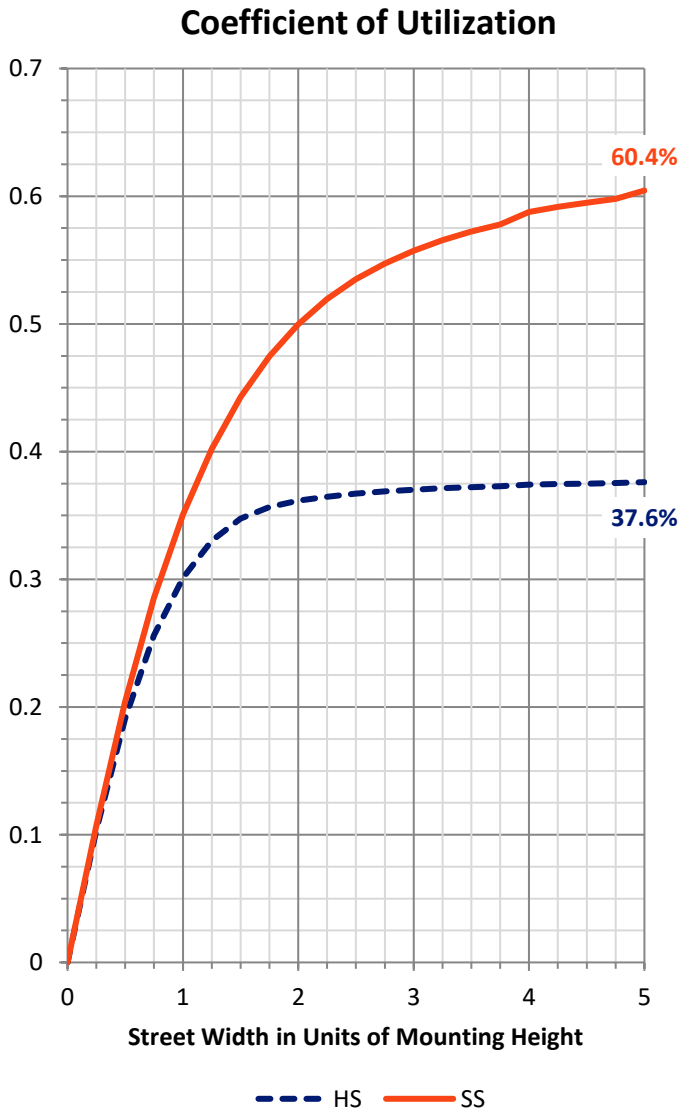
REPORT NUMBER: P436805
CATALOG NUMBER: TT-D3-740-U-5MQ-PM-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2142.7	1.5	2144.2
	% Fixture	37.9	0.0	37.9
Street Side	Lumens	3495.5	19.2	3514.7
	% Fixture	61.8	0.3	62.1
Total	Lumens	5638.2	20.7	5658.9
	% Fixture	99.6	0.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	2.2
10°-20°	370.3	6.5
20°-30°	589.3	10.4
30°-40°	755.0	13.3
40°-50°	894.5	15.8
50°-60°	979.6	17.3
60°-70°	931.2	16.5
70°-80°	741.4	13.1
80°-90°	251.9	4.5
90°-100°	13.3	0.2
100°-110°	4.4	0.1
110°-120°	1.0	0.0
120°-130°	0.6	0.0
130°-140°	0.5	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-90°	5638.2	99.6
0°-180°	5658.9	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

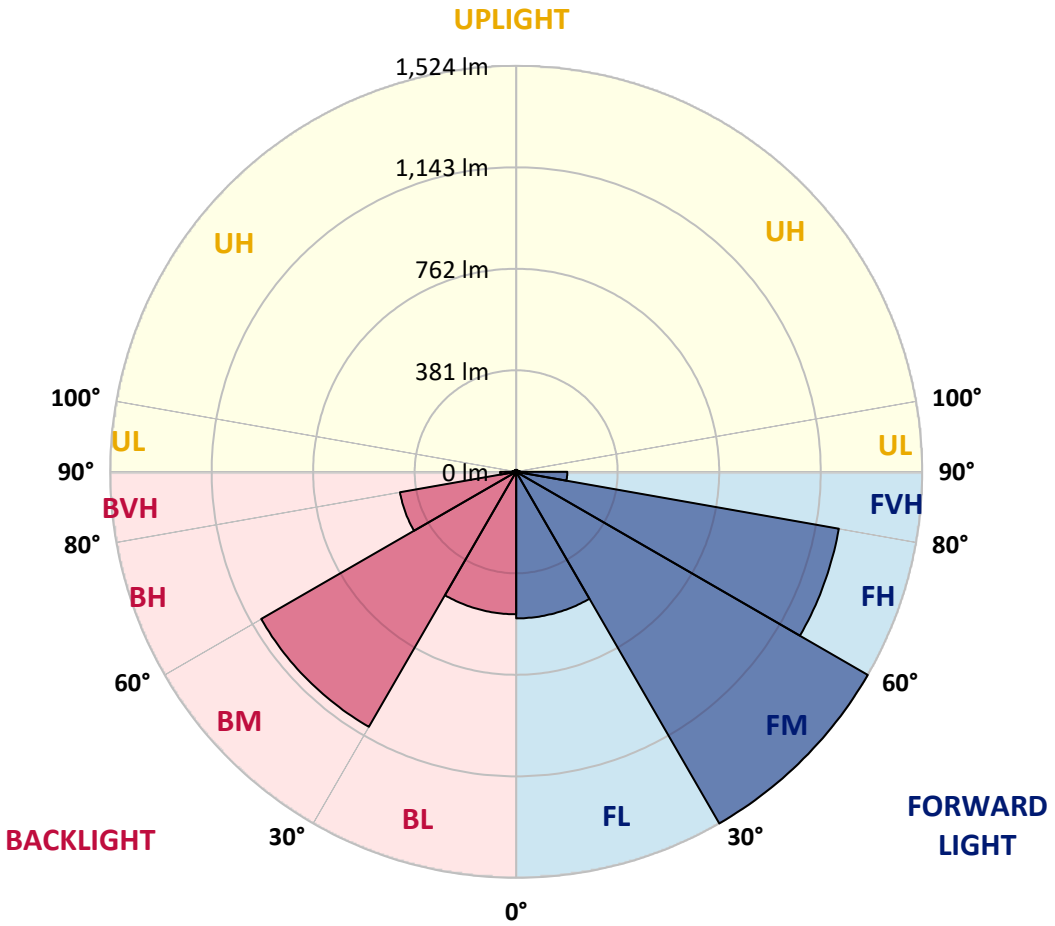
Scaled Data Report

REPORT NUMBER: P436805
CATALOG NUMBER: TT-D3-740-U-5MQ-PM-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	550.0	9.7			
FM	(30°-60°)	1523.9	26.9			
FH	(60°-80°)	1229.7	21.7			G1/1800
FVH	(80°-90°)	191.8	3.4			G2/225
BL	(0°-30°)	534.7	9.4	B2/1000		
BM	(30°-60°)	1105.2	19.5	B2/2500		
BH	(60°-80°)	442.8	7.8	B1/500		G1/500
BVH	(80°-90°)	60.0	1.1			G1/100
UL	(90°-100°)	13.3	0.2		U2/50	
UH	(100°-180°)	7.4	0.1		U1/10	

BUG Rating: B2-U2-G2
Type IV Short



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P436805
CATALOG NUMBER: TT-D3-740-U-5MQ-PM-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1310	1310	1310	1310	1310	*1310*	1310	1310	1310	1310	1310
2.5°	1315	1314	1314	1314	1314	*1313*	1314	1312	1313	1310	1310
5°	1318	1316	1317	1317	1317	*1316*	1317	1314	1315	1311	1310
7.5°	1319	1318	1318	1318	1318	*1316*	1317	1315	1314	1311	1309
10°	1319	1318	1318	1318	1317	*1315*	1316	1313	1313	1309	1307
12.5°	1319	1318	1319	1317	1317	*1315*	1315	1312	1312	1307	1305
15°	1318	1317	1317	1318	1317	*1315*	1315	1312	1311	1305	1303
17.5°	1317	1316	1317	1318	1319	*1317*	1318	1313	1311	1305	1302
20°	1318	1317	1318	1320	1320	*1320*	1320	1315	1311	1305	1300
22.5°	1315	1315	1315	1315	1317	*1314*	1314	1311	1306	1301	1296
25°	1308	1308	1309	1310	1310	*1308*	1307	1304	1300	1294	1288
27.5°	1300	1300	1301	1301	1303	*1301*	1300	1296	1292	1285	1278
30°	1291	1291	1291	1293	1294	*1294*	1293	1288	1283	1275	1266
32.5°	1281	1281	1284	1286	1287	*1287*	1287	1281	1275	1265	1252
35°	1273	1273	1277	1284	1288	*1286*	1285	1281	1272	1261	1240
37.5°	1278	1278	1287	1297	1306	*1304*	1304	1297	1285	1267	1241
40°	1290	1291	1305	1318	1329	*1331*	1331	1323	1305	1282	1246
42.5°	1293	1295	1309	1328	1338	*1343*	1343	1332	1313	1286	1244
45°	1293	1294	1310	1330	1346	*1350*	1350	1338	1314	1288	1237
47.5°	1293	1292	1306	1334	1350	*1353*	1353	1340	1317	1284	1227
50°	1290	1295	1316	1338	1366	*1370*	1369	1355	1323	1289	1219
52.5°	1297	1296	1324	1368	1393	*1402*	1403	1385	1352	1303	1214
55°	1326	1327	1354	1405	1443	*1460*	1458	1435	1388	1331	1228
57.5°	1336	1346	1385	1429	1487	*1502*	1502	1474	1417	1353	1238
60°	1316	1320	1368	1443	1496	*1499*	1500	1480	1420	1341	1218
62.5°	1311	1319	1356	1440	1474	*1496*	1495	1468	1417	1332	1211
65°	*1289*	*1295*	*1360*	*1422*	*1497*	*1519*	*1514*	*1483*	*1404*	*1322*	*1189*
67.5°	1244	1250	1310	1397	1465	*1486*	1491	1455	1373	1275	1142
70°	1169	1178	1239	1324	1396	*1408*	1406	1384	1302	1197	1073
72.5°	1064	1078	1155	1236	1298	*1316*	1308	1283	1216	1103	979
75°	953	966	1027	1118	1183	*1195*	1189	1159	1091	980	868
77.5°	832	843	895	988	1036	*1046*	1049	1009	945	845	745
80°	669	674	744	805	847	*867*	865	835	771	688	588
82.5°	494	498	552	604	642	*660*	650	620	569	498	422
85°	303	296	340	379	402	*414*	404	387	342	286	233
87.5°	109	103	123	129	155	*151*	160	129	104	74	52
90°	48	48	47	45	41	*37*	36	30	22	14	5
92.5°	44	44	43	41	37	*33*	33	27	20	13	5
95°	37	37	36	34	31	*28*	28	22	17	11	4
97.5°	29	29	28	27	24	*22*	22	18	13	8	3
100°	22	22	21	20	19	*17*	16	13	10	6	2
102.5°	16	16	16	15	13	*12*	12	10	7	5	2
105°	11	11	11	10	9	*8*	8	7	5	3	1
107.5°	7	7	7	7	6	*5*	5	4	3	2	1
110°	4	3	4	4	4	*3*	3	2	2	1	1

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P436805
CATALOG NUMBER: TT-D3-740-U-5MQ-PM-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
112.5°	2	2	2	2	2	2	2	1	1	1	1
115°	1	1	1	2	2	1	1	1	1	1	1
117.5°	0	1	1	1	1	1	1	1	1	1	1
120°	0	0	1	1	1	1	1	1	1	1	1
122.5°	0	0	0	1	1	1	1	1	1	1	1
125°	0	0	0	1	1	1	1	1	1	1	1
127.5°	0	0	0	1	1	1	1	1	1	1	1
130°	0	0	0	1	1	1	1	1	1	1	1
132.5°	0	0	0	1	1	1	1	1	1	1	1
135°	0	0	0	0	1	1	1	1	1	1	1
137.5°	0	0	0	0	1	1	1	1	1	1	1
140°	0	1	1	0	0	1	1	1	1	1	1
142.5°	1	1	1	1	1	1	1	1	1	1	1
145°	1	1	1	1	1	1	1	1	1	1	1
147.5°	1	1	0	0	1	1	1	1	1	1	1
150°	1	1	1	0	0	1	1	1	1	1	1
152.5°	1	1	1	1	1	1	1	1	1	1	1
155°	1	1	1	1	1	1	1	1	1	1	1
157.5°	1	1	1	0	1	1	1	1	1	1	1
160°	1	1	1	1	1	1	1	1	1	1	1
162.5°	1	1	1	1	1	1	1	1	1	1	1
165°	1	1	1	1	1	1	1	1	1	1	1
167.5°	1	1	1	1	1	1	1	1	1	1	1
170°	1	1	1	1	1	1	1	1	1	1	1
172.5°	1	1	1	1	1	1	1	1	1	1	1
175°	1	1	1	1	1	1	1	1	1	1	1
177.5°	1	1	1	1	1	1	1	1	1	1	1
180°	1	1	1	1	1	1	1	1	1	1	1

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P436805
CATALOG NUMBER: TT-D3-740-U-5MQ-PM-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310
2.5°	1310	1309	1308	1309	1308	1308	1307	1307	1306	1306	1305
5°	1310	1309	1308	1309	1307	1308	1308	1307	1306	1305	1304
7.5°	1309	1309	1307	1308	1306	1306	1305	1305	1304	1304	1303
10°	1307	1306	1306	1306	1304	1304	1303	1302	1302	1301	1300
12.5°	1305	1304	1303	1303	1302	1301	1300	1300	1299	1298	1297
15°	1302	1301	1301	1301	1300	1300	1299	1298	1296	1295	1294
17.5°	1301	1300	1301	1301	1300	1301	1299	1297	1295	1294	1293
20°	1300	1300	1300	1299	1298	1297	1296	1295	1294	1293	1292
22.5°	1295	1294	1292	1286	1279	1274	1273	1275	1275	1275	1272
25°	1286	1283	1275	1264	1252	1244	1239	1239	1238	1236	1235
27.5°	1275	1269	1255	1241	1224	1214	1202	1195	1192	1191	1189
30°	1260	1251	1233	1215	1194	1180	1161	1149	1142	1139	1137
32.5°	1242	1233	1212	1190	1165	1145	1121	1102	1089	1083	1080
35°	1230	1217	1193	1167	1142	1113	1084	1058	1038	1031	1027
37.5°	1225	1213	1187	1161	1133	1098	1064	1027	1000	988	984
40°	1228	1213	1184	1156	1123	1084	1039	993	958	941	937
42.5°	1221	1204	1170	1140	1099	1055	1000	947	900	886	880
45°	1209	1188	1151	1113	1070	1016	959	891	835	818	813
47.5°	1197	1168	1124	1089	1037	974	907	831	761	744	741
50°	1179	1152	1105	1064	1011	938	862	767	688	659	651
52.5°	1171	1136	1091	1059	995	912	816	714	600	564	556
55°	1179	1135	1087	1056	982	879	761	631	499	461	450
57.5°	1165	1127	1079	1044	948	811	681	514	377	328	324
60°	1147	1093	1048	1016	877	683	530	366	227	185	177
62.5°	1140	1084	1032	993	782	502	323	185	94	66	60
65°	*1118*	*1068*	*1031*	*976*	*683*	*310*	*139*	*55*	*4*	*3*	*3*
67.5°	1076	1025	1000	968	673	296	126	50	2	0	0
70°	1004	964	947	930	644	274	115	45	1	0	0
72.5°	909	882	879	877	602	253	103	40	1	0	0
75°	814	781	786	798	550	224	89	35	1	0	0
77.5°	694	670	682	702	482	190	73	28	1	0	0
80°	546	530	557	575	394	151	55	20	0	0	0
82.5°	388	379	404	427	293	107	38	13	0	0	0
85°	209	204	228	253	176	61	19	6	0	0	0
87.5°	52	48	49	59	43	13	3	1	0	0	0
90°	1	1	1	1	0	0	0	0	0	0	0
92.5°	1	1	1	1	0	0	0	0	0	0	0
95°	1	1	1	1	0	0	0	0	0	0	0
97.5°	1	1	1	1	1	0	0	0	0	0	0
100°	1	1	1	1	1	1	0	0	0	0	0
102.5°	1	1	1	1	0	0	0	0	0	0	0
105°	1	1	1	1	0	0	0	0	0	0	0
107.5°	1	1	1	1	1	1	0	0	0	0	0
110°	1	1	1	1	1	1	0	0	0	0	0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P436805
CATALOG NUMBER: TT-D3-740-U-5MQ-PM-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1	1	1	1	1	1	0	0	0	0	0
115°	1	1	1	1	1	1	0	0	0	0	0
117.5°	1	1	1	1	1	0	0	0	0	0	0
120°	1	1	1	1	1	1	0	0	0	0	0
122.5°	1	1	1	1	1	1	0	0	0	0	0
125°	1	1	1	1	1	1	0	0	0	0	0
127.5°	1	1	1	1	1	1	0	0	0	0	0
130°	1	1	1	1	1	0	0	0	0	0	0
132.5°	1	1	1	1	1	1	0	0	0	0	0
135°	1	1	1	1	1	0	0	0	0	0	0
137.5°	1	1	1	1	1	0	0	0	0	0	0
140°	1	1	1	1	1	0	0	0	0	0	0
142.5°	1	1	1	1	1	0	0	0	0	0	0
145°	1	1	1	1	1	1	0	0	0	0	0
147.5°	1	1	1	1	1	0	0	0	0	0	0
150°	1	1	1	1	1	0	0	0	0	0	0
152.5°	1	1	1	1	1	0	0	0	0	0	0
155°	1	1	1	1	1	0	0	0	0	0	0
157.5°	1	1	1	1	1	0	0	0	0	0	0
160°	1	1	1	1	1	1	0	0	0	0	0
162.5°	1	1	1	1	1	1	0	0	0	0	0
165°	1	1	1	1	1	1	0	0	0	0	0
167.5°	1	1	1	1	1	1	0	0	0	0	0
170°	1	1	1	1	1	1	0	0	0	0	0
172.5°	1	1	1	1	1	1	0	0	0	0	0
175°	1	1	1	1	1	1	0	0	0	0	0
177.5°	1	1	1	1	1	1	0	0	0	0	0
180°	1	1	1	1	1	1	1	1	1	1	1

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

LM-79-08: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

McGRAW-EDISON

Report Number: SP1-2006-844-6

Luminaire Tested: TT-D2-740-U-RW

Test Date: 06/30/2020

Data applicable to product families TT-x-740 and TTN-x-740

Report Generated By controller / USPTCWHP6086842

Test Information

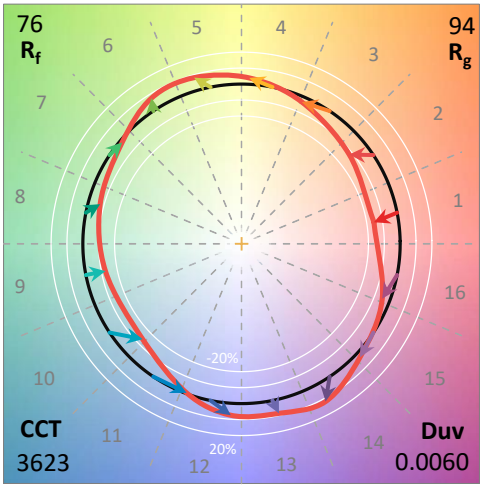
Test Method:	LM-79-08
Report Number:	SP1-2006-844-6
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1
Measurement Geometry:	4π
Issue Date:	06/30/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	**TT-D2-740-U-RW**
Description:	MCGRAW EDISON

RECTANGULAR DISTRIBUTION

Spectral Parameters

CCT (K):	3623	CRI (Ra):	72.6		
CIE u':	0.2297	R1:	69.4	R9:	-22.4
CIE v':	0.5166	R2:	78.4	R10:	49.0
Duv:	0.0060	R3:	86.1	R11:	67.4
CIE x:	0.4044	R4:	72.3	R12:	39.3
CIE y:	0.4042	R5:	68.2	R13:	70.5
CIE z:	0.1914	R6:	69.2	R14:	91.9
Peak Wavelength (nm):	588	R7:	83.0		
Dominant Wavelength (nm):	578	R8:	54.2		
Purity:	42.8				

Rf:	76.2
Rg:	94.3



Test Conditions

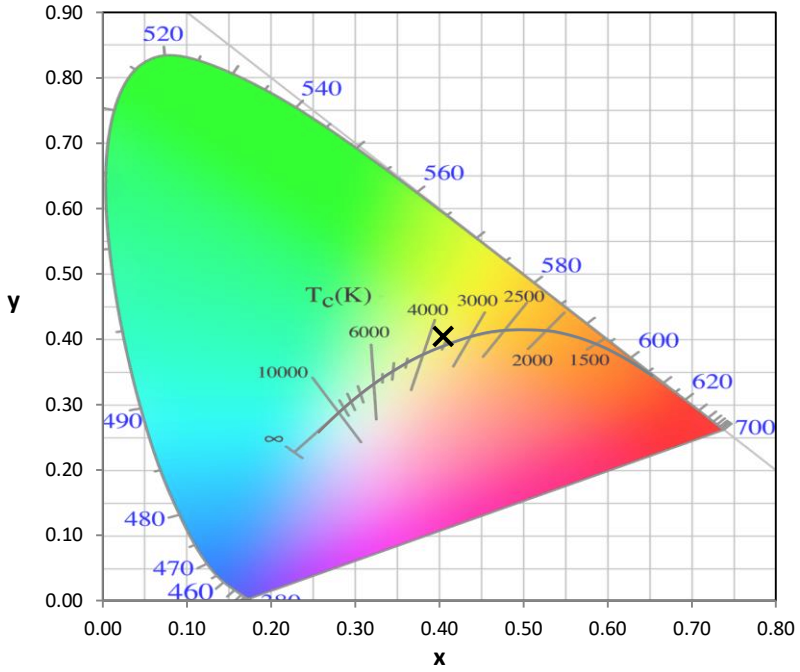
Stabilization Time:	207M
Operation Time:	12H
Room Temperature (°C) / RH%:	25.9/42%
Sphere Temperature (°C):	25.8

REPORT NUMBER: SP1-2006-844-6

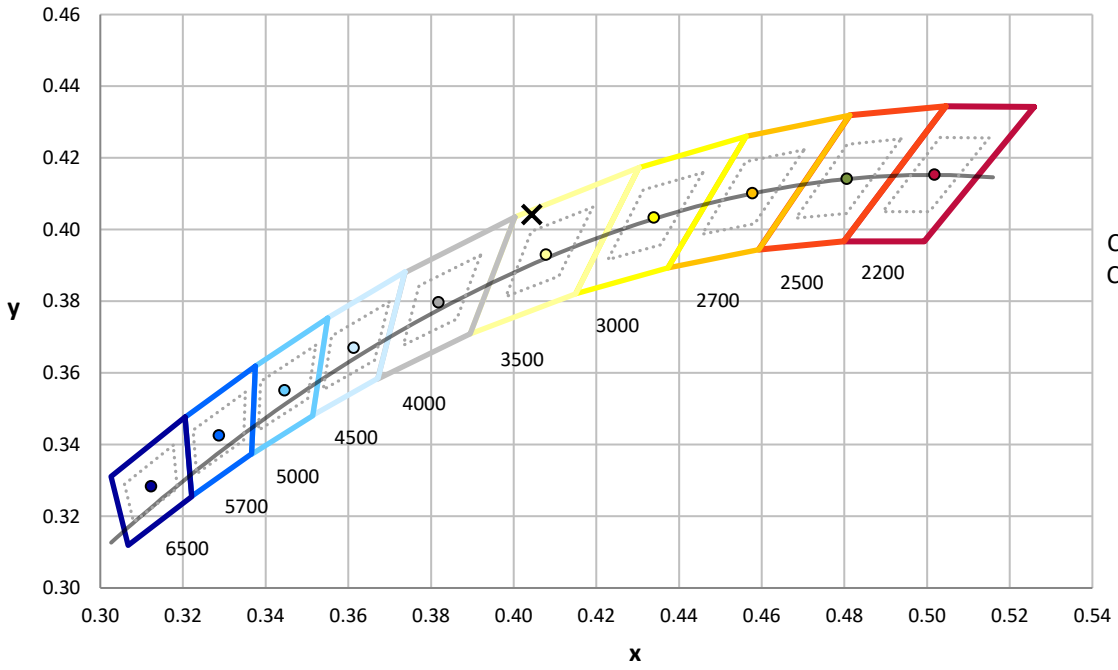
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	7/29/2020	1/29/2021
Power Meter	IN0071	12/3/2019	12/3/2020
AC Power Source	IN0063	12/3/2019	12/3/2020
DC Power Source	IN0208	12/3/2019	12/3/2020
Sphere Thermometer	IN0085	12/3/2019	12/3/2020
Room Thermometer	IN0046	12/3/2019	12/3/2020

REPORT NUMBER: SP1-2006-844-6

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

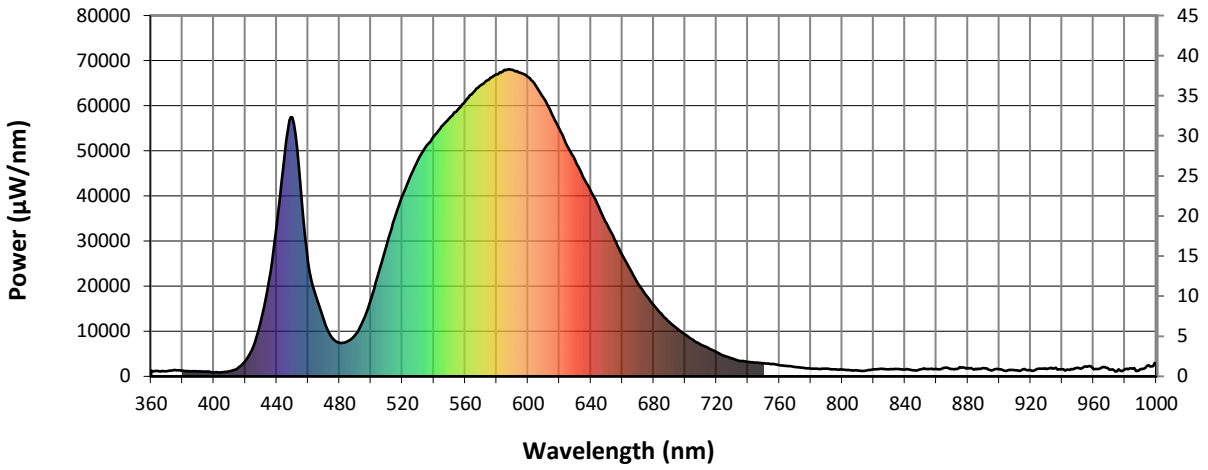


CCT = 3623K
CIE x = 0.4044
CIE y = 0.4042
Duv = 0.0060

Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2006-844-6

Photopic Flux vs. Wavelength

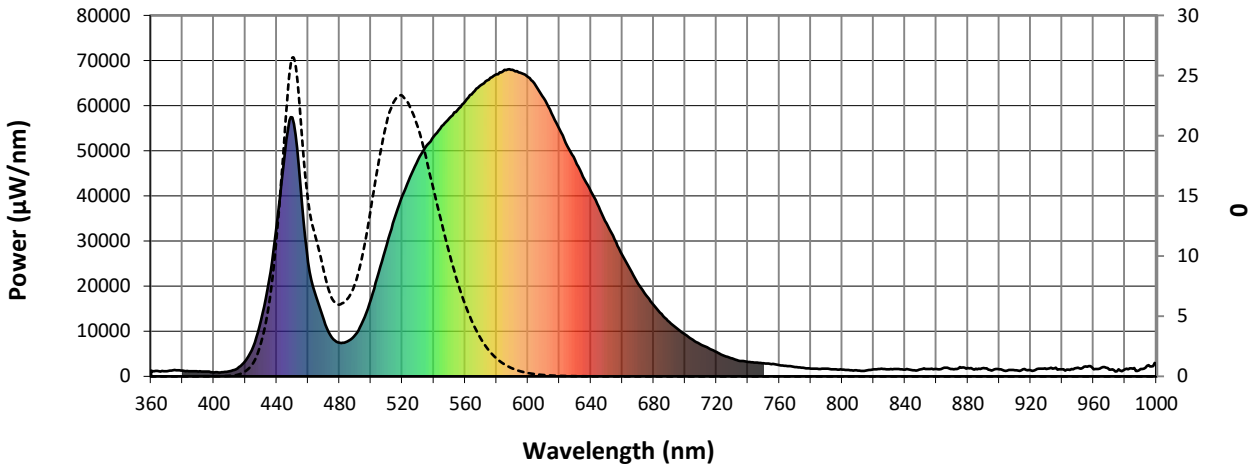


######

λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	1254	0.0	490	9219	1.3	620	54761	14.3	750	2901	0.0	880	1835	0.0
365	1158	0.0	495	12322	2.2	625	51064	11.3	755	2733	0.0	885	1690	0.0
370	1131	0.0	500	17160	3.8	630	47879	8.7	760	2503	0.0	890	1819	0.0
375	1414	0.0	505	23071	6.5	635	44248	6.6	765	2289	0.0	895	1314	0.0
380	1275	0.0	510	29162	10.0	640	41034	4.9	770	2078	0.0	900	1547	0.0
385	1122	0.0	515	34992	14.5	645	37515	3.6	775	1927	0.0	905	1281	0.0
390	1074	0.0	520	40102	19.4	650	33900	2.5	780	1724	0.0	910	1345	0.0
395	1058	0.0	525	44194	23.7	655	30384	1.7	785	1617	0.0	915	1561	0.0
400	885	0.0	530	48014	28.3	660	26883	1.1	790	1709	0.0	920	1368	0.0
405	912	0.0	535	51019	31.6	665	23703	0.8	795	1561	0.0	925	1730	0.0
410	1108	0.0	540	53190	34.7	670	20603	0.5	800	1525	0.0	930	1629	0.0
415	1763	0.0	545	55452	36.9	675	18039	0.3	805	1332	0.0	935	1796	0.0
420	3421	0.0	550	57280	38.9	680	15849	0.2	810	1269	0.0	940	1595	0.0
425	6610	0.0	555	59041	40.3	685	13806	0.1	815	1261	0.0	945	1410	0.0
430	12444	0.1	560	60976	41.4	690	12093	0.1	820	1551	0.0	950	1937	0.0
435	21116	0.2	565	62904	41.8	695	10566	0.0	825	1708	0.0	955	2186	0.0
440	33463	0.5	570	64555	42.0	700	9300	0.0	830	1592	0.0	960	1583	0.0
445	49089	1.0	575	65785	40.9	705	8110	0.0	835	1642	0.0	965	1953	0.0
450	57374	1.5	580	66948	39.8	710	7052	0.0	840	1514	0.0	970	1519	0.0
455	42663	1.4	585	67963	37.8	715	6233	0.0	845	1376	0.0	975	1168	0.0
460	25334	1.0	590	68001	35.2	720	5362	0.0	850	1592	0.0	980	1593	0.0
465	17751	0.9	595	67308	31.9	725	4563	0.0	855	1667	0.0	985	1722	0.0
470	12447	0.8	600	66343	28.6	730	3976	0.0	860	1662	0.0	990	1648	0.0
475	8641	0.7	605	64393	24.9	735	3424	0.0	865	1916	0.0	995	2495	0.0
480	7423	0.7	610	61634	21.2	740	3222	0.0	870	1655	0.0	1000	2643	0.0
485	7759	0.9	615	58349	17.6	745	3060	0.0	875	2036	0.0			

REPORT NUMBER: SP1-2006-844-6

Scotopic Flux vs. Wavelength

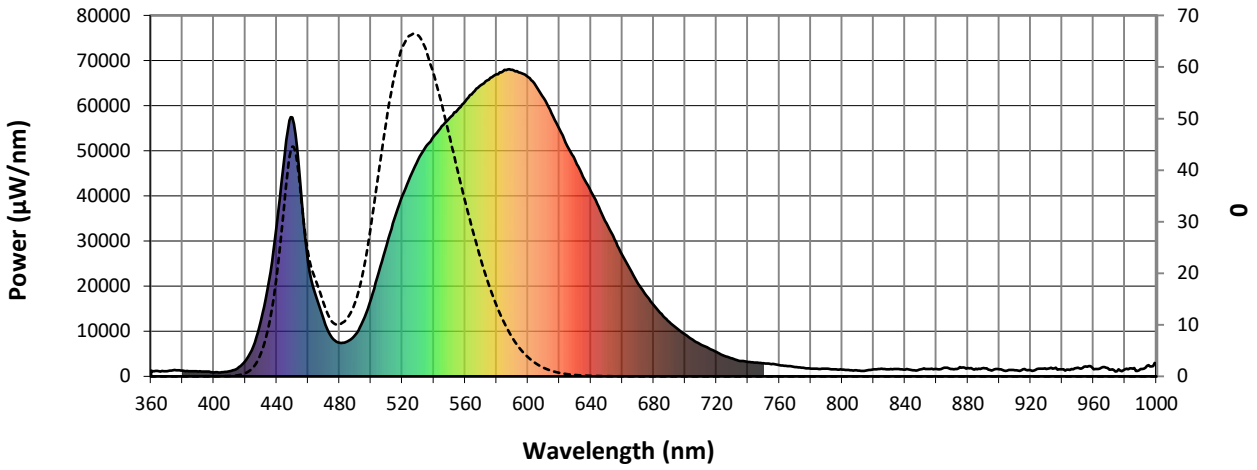


Scotopic Lumens: 1941.7 **S/P: 0.51**

λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	1254	0.0	490	9219	14.2	620	54761	0.7	750	2901	0.0	880	1835	0.0
365	1158	0.0	495	12322	19.9	625	51064	0.4	755	2733	0.0	885	1690	0.0
370	1131	0.0	500	17160	28.7	630	47879	0.3	760	2503	0.0	890	1819	0.0
375	1414	0.0	505	23071	39.2	635	44248	0.2	765	2289	0.0	895	1314	0.0
380	1275	0.0	510	29162	49.4	640	41034	0.1	770	2078	0.0	900	1547	0.0
385	1122	0.0	515	34992	58.0	645	37515	0.1	775	1927	0.0	905	1281	0.0
390	1074	0.0	520	40102	63.7	650	33900	0.0	780	1724	0.0	910	1345	0.0
395	1058	0.0	525	44194	66.1	655	30384	0.0	785	1617	0.0	915	1561	0.0
400	885	0.0	530	48014	66.2	660	26883	0.0	790	1709	0.0	920	1368	0.0
405	912	0.0	535	51019	63.6	665	23703	0.0	795	1561	0.0	925	1730	0.0
410	1108	0.1	540	53190	58.8	670	20603	0.0	800	1525	0.0	930	1629	0.0
415	1763	0.2	545	55452	53.2	675	18039	0.0	805	1332	0.0	935	1796	0.0
420	3421	0.6	550	57280	46.8	680	15849	0.0	810	1269	0.0	940	1595	0.0
425	6610	1.6	555	59041	40.3	685	13806	0.0	815	1261	0.0	945	1410	0.0
430	12444	4.2	560	60976	34.1	690	12093	0.0	820	1551	0.0	950	1937	0.0
435	21116	9.4	565	62904	28.2	695	10566	0.0	825	1708	0.0	955	2186	0.0
440	33463	18.7	570	64555	22.8	700	9300	0.0	830	1592	0.0	960	1583	0.0
445	49089	32.9	575	65785	17.9	705	8110	0.0	835	1642	0.0	965	1953	0.0
450	57374	44.5	580	66948	13.8	710	7052	0.0	840	1514	0.0	970	1519	0.0
455	42663	37.3	585	67963	10.4	715	6233	0.0	845	1376	0.0	975	1168	0.0
460	25334	24.5	590	68001	7.6	720	5362	0.0	850	1592	0.0	980	1593	0.0
465	17751	18.7	595	67308	5.4	725	4563	0.0	855	1667	0.0	985	1722	0.0
470	12447	14.3	600	66343	3.7	730	3976	0.0	860	1662	0.0	990	1648	0.0
475	8641	10.8	605	64393	2.5	735	3424	0.0	865	1916	0.0	995	2495	0.0
480	7423	10.0	610	61634	1.7	740	3222	0.0	870	1655	0.0	1000	2643	0.0
485	7759	11.2	615	58349	1.1	745	3060	0.0	875	2036	0.0			

REPORT NUMBER: SP1-2006-844-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: 5289.9 **S/P: 1.39**

λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	1254	0.0	490	9219	7.7	620	54761	0.0	750	2901	0.0	880	1835	0.0
365	1158	0.0	495	12322	10.2	625	51064	0.0	755	2733	0.0	885	1690	0.0
370	1131	0.0	500	17160	13.8	630	47879	0.0	760	2503	0.0	890	1819	0.0
375	1414	0.0	505	23071	17.7	635	44248	0.0	765	2289	0.0	895	1314	0.0
380	1275	0.0	510	29162	20.9	640	41034	0.0	770	2078	0.0	900	1547	0.0
385	1122	0.0	515	34992	22.9	645	37515	0.0	775	1927	0.0	905	1281	0.0
390	1074	0.0	520	40102	23.3	650	33900	0.0	780	1724	0.0	910	1345	0.0
395	1058	0.0	525	44194	22.4	655	30384	0.0	785	1617	0.0	915	1561	0.0
400	885	0.0	530	48014	20.7	660	26883	0.0	790	1709	0.0	920	1368	0.0
405	912	0.0	535	51019	18.4	665	23703	0.0	795	1561	0.0	925	1730	0.0
410	1108	0.0	540	53190	15.6	670	20603	0.0	800	1525	0.0	930	1629	0.0
415	1763	0.1	545	55452	12.9	675	18039	0.0	805	1332	0.0	935	1796	0.0
420	3421	0.4	550	57280	10.3	680	15849	0.0	810	1269	0.0	940	1595	0.0
425	6610	1.0	555	59041	8.0	685	13806	0.0	815	1261	0.0	945	1410	0.0
430	12444	2.6	560	60976	6.0	690	12093	0.0	820	1551	0.0	950	1937	0.0
435	21116	5.6	565	62904	4.4	695	10566	0.0	825	1708	0.0	955	2186	0.0
440	33463	11.2	570	64555	3.2	700	9300	0.0	830	1592	0.0	960	1583	0.0
445	49089	19.4	575	65785	2.2	705	8110	0.0	835	1642	0.0	965	1953	0.0
450	57374	26.4	580	66948	1.5	710	7052	0.0	840	1514	0.0	970	1519	0.0
455	42663	22.4	585	67963	1.0	715	6233	0.0	845	1376	0.0	975	1168	0.0
460	25334	14.9	590	68001	0.7	720	5362	0.0	850	1592	0.0	980	1593	0.0
465	17751	11.6	595	67308	0.4	725	4563	0.0	855	1667	0.0	985	1722	0.0
470	12447	8.9	600	66343	0.3	730	3976	0.0	860	1662	0.0	990	1648	0.0
475	8641	6.6	605	64393	0.2	735	3424	0.0	865	1916	0.0	995	2495	0.0
480	7423	6.0	610	61634	0.1	740	3222	0.0	870	1655	0.0	1000	2643	0.0
485	7759	6.4	615	58349	0.1	745	3060	0.0	875	2036	0.0			

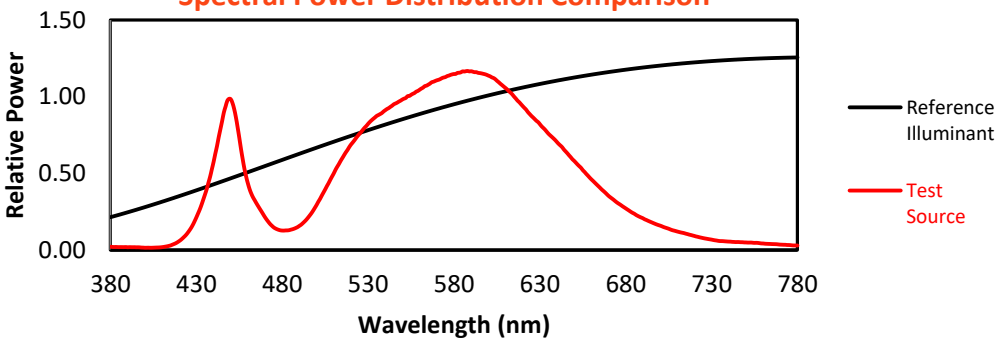
REPORT NUMBER: SP1-2006-844-6

TM-30-18

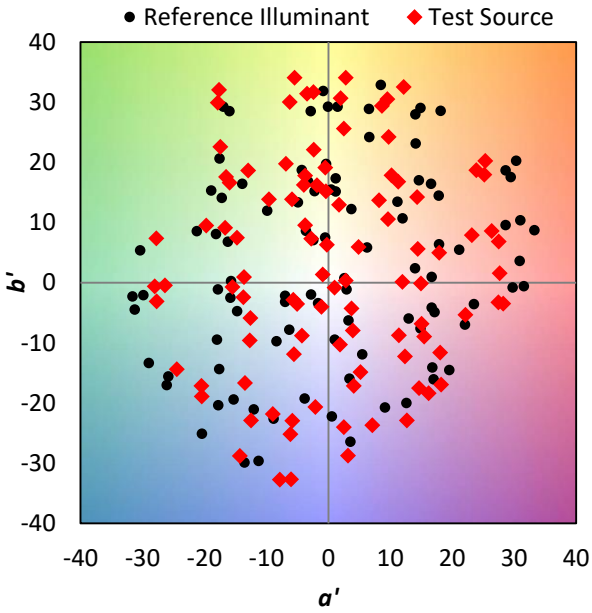
Summary

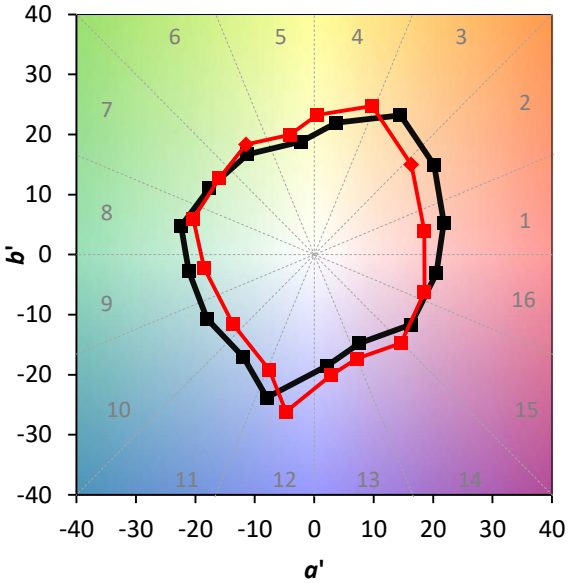
R_f = 76.2
R_g = 94.3
CIE R_a = 72.6
R_9 = -22.4

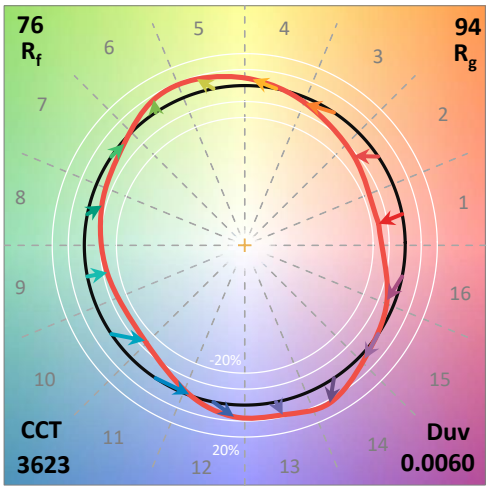
Spectral Power Distribution Comparison

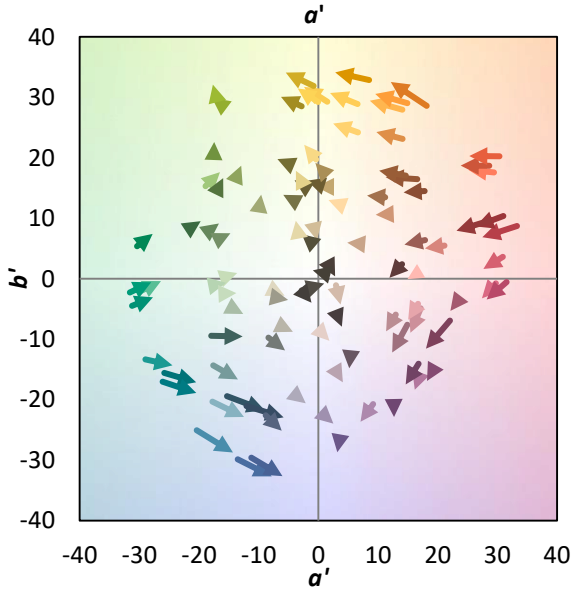


Color Vector Graphics







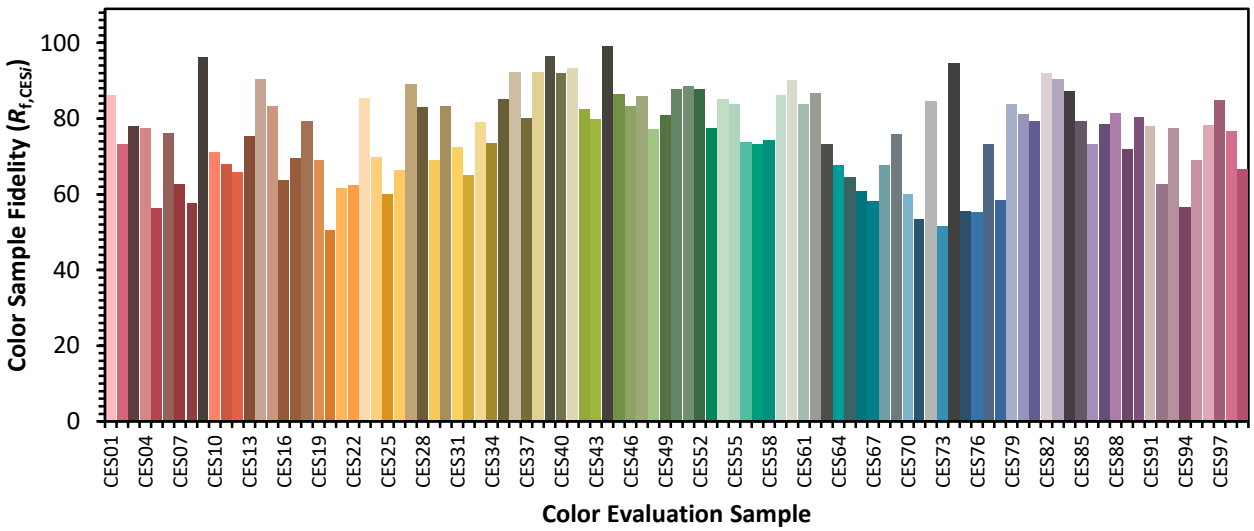


REPORT NUMBER: SP1-2006-844-6

TM-30-18

Individual Sample Fidelity Index ($R_{f,i}$)

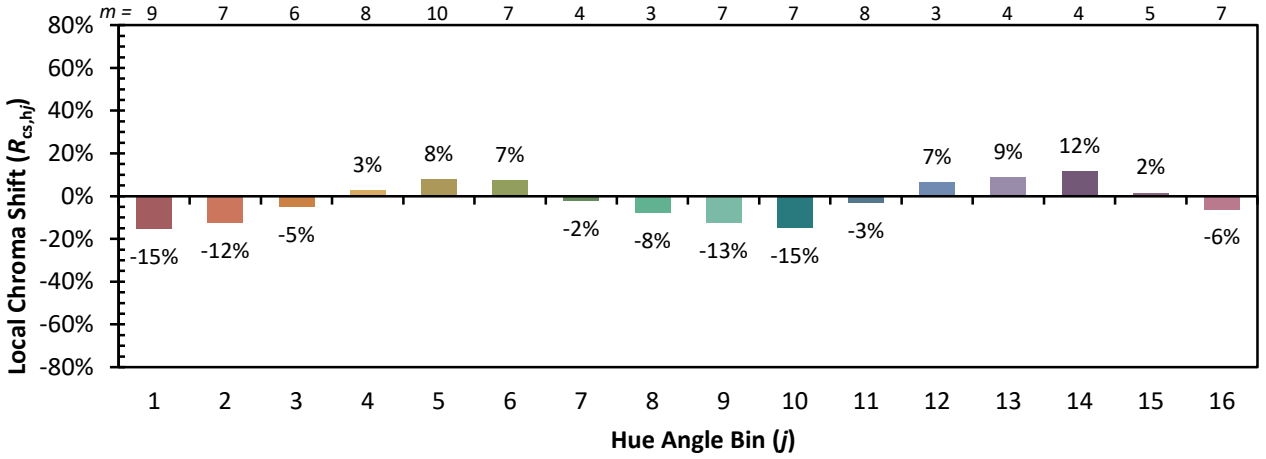
CES01 = 86	CES26 = 66	CES51 = 88	CES76 = 55
CES02 = 61	CES27 = 89	CES52 = 88	CES77 = 73
CES03 = 31	CES28 = 83	CES53 = 78	CES78 = 59
CES04 = 70	CES29 = 69	CES54 = 85	CES79 = 84
CES05 = 48	CES30 = 83	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 73	CES56 = 74	CES81 = 79
CES07 = 40	CES32 = 65	CES57 = 73	CES82 = 92
CES08 = 39	CES33 = 79	CES58 = 74	CES83 = 90
CES09 = 29	CES34 = 74	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 85	CES60 = 90	CES85 = 79
CES11 = 57	CES36 = 92	CES61 = 84	CES86 = 73
CES12 = 63	CES37 = 80	CES62 = 87	CES87 = 78
CES13 = 42	CES38 = 92	CES63 = 73	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 68	CES89 = 72
CES15 = 71	CES40 = 92	CES65 = 65	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 61	CES91 = 78
CES17 = 49	CES42 = 82	CES67 = 58	CES92 = 63
CES18 = 56	CES43 = 80	CES68 = 68	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 57
CES20 = 65	CES45 = 86	CES70 = 60	CES95 = 69
CES21 = 86	CES46 = 83	CES71 = 54	CES96 = 78
CES22 = 78	CES47 = 86	CES72 = 85	CES97 = 85
CES23 = 92	CES48 = 77	CES73 = 52	CES98 = 77
CES24 = 91	CES49 = 81	CES74 = 95	CES99 = 67
CES25 = 72	CES50 = 88	CES75 = 56	

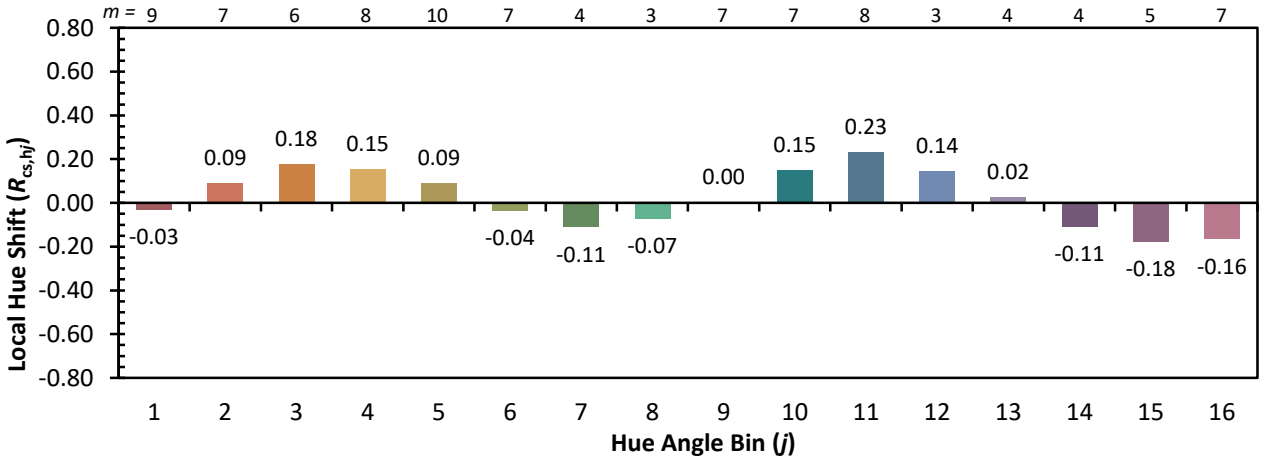


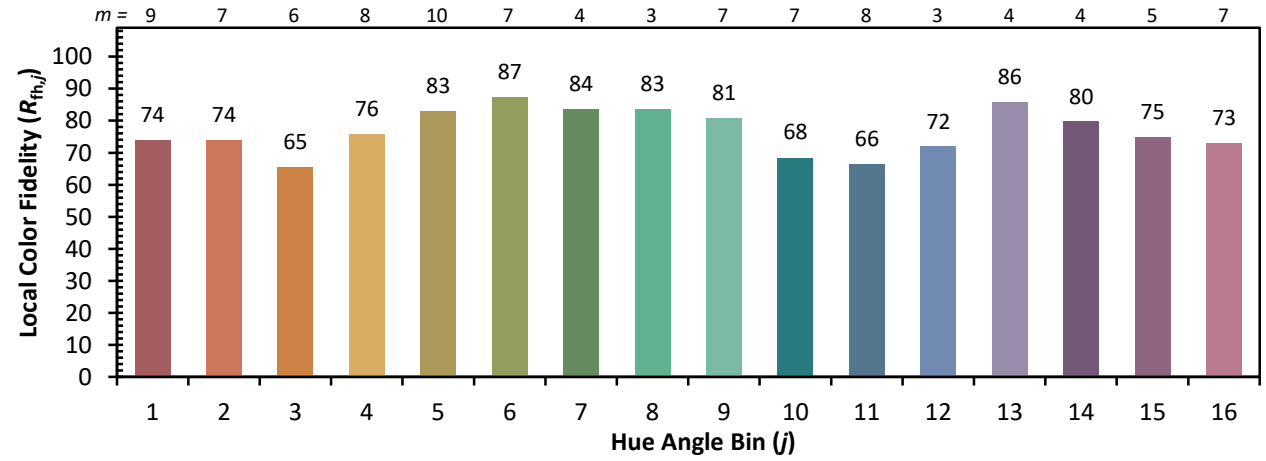
REPORT NUMBER: SP1-2006-844-6

TM-30-18

Color Rendition by Hue-Angle Bin



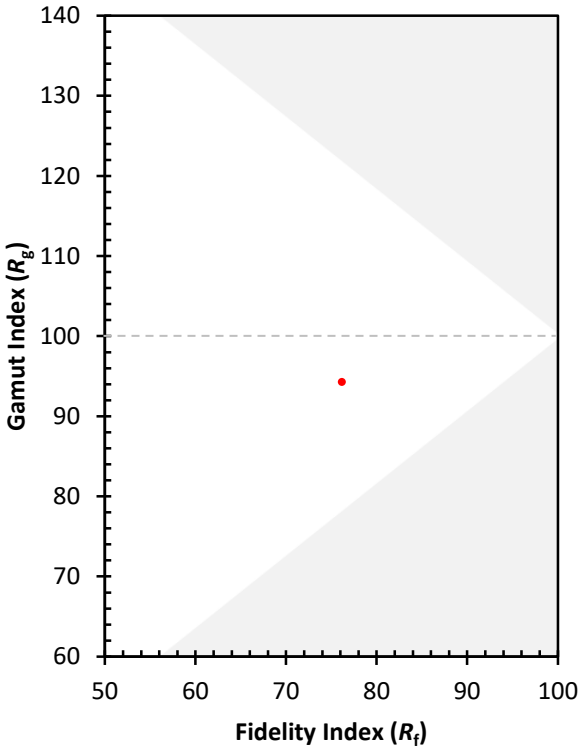


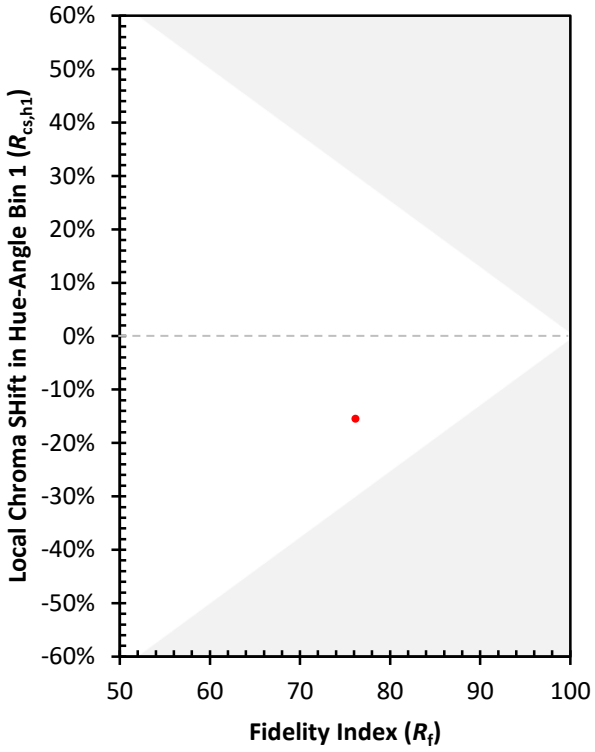


REPORT NUMBER: SP1-2006-844-6

TM-30-18

Measure Comparisons





(END OF REPORT)