

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: P406361

Luminaire Tested: **TT-D3-740-U-MQ-UPL**

Issue Date: 7/23/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P406361  
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G2-2002-677-1) AND  
Test Lab: INNOVATION CENTER  
Issue Date: 7/23/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-D3-740-U-MQ-UPL  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7612.7 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U4 - G2

Input Watts (W): 55.2  
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

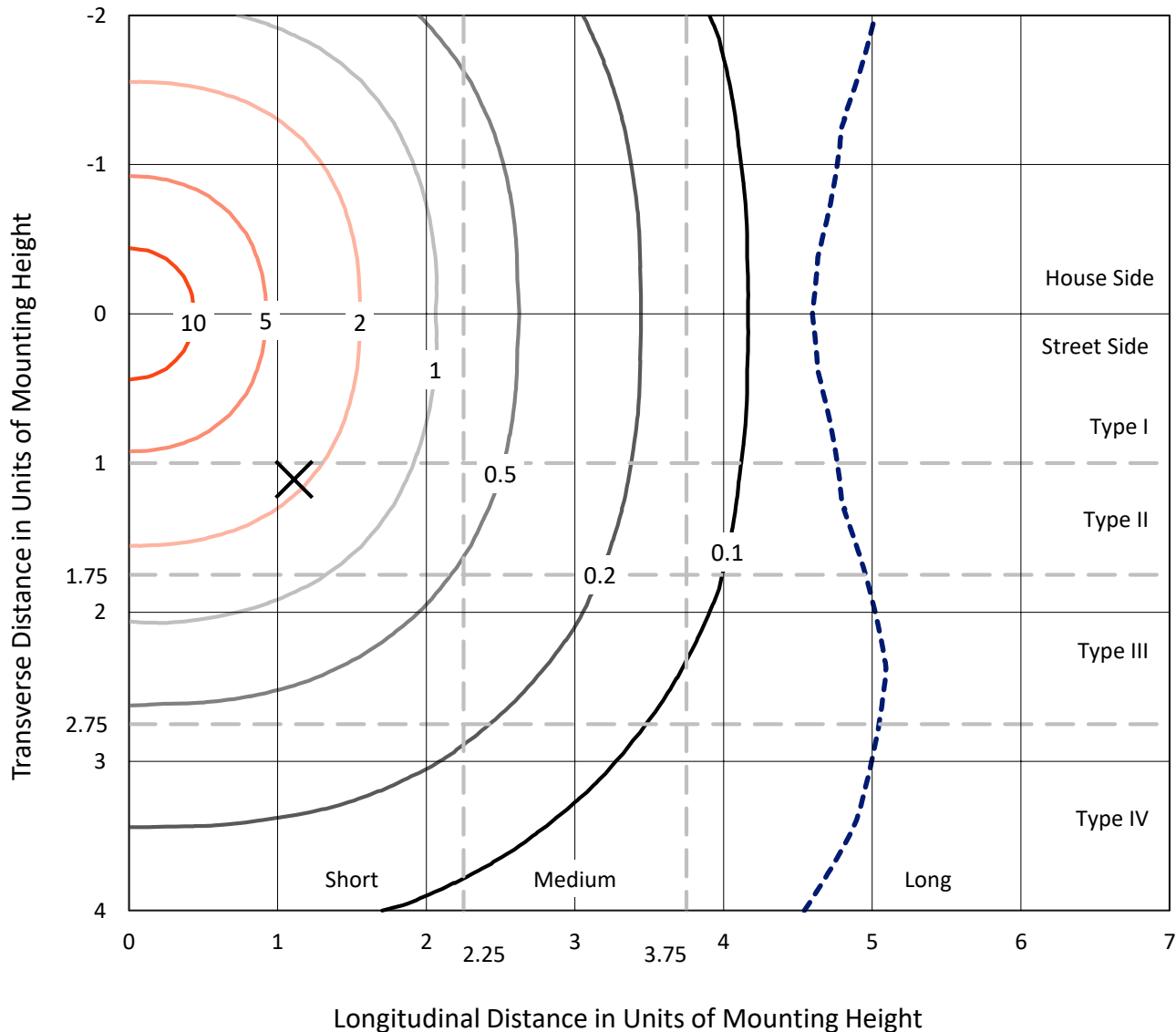


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

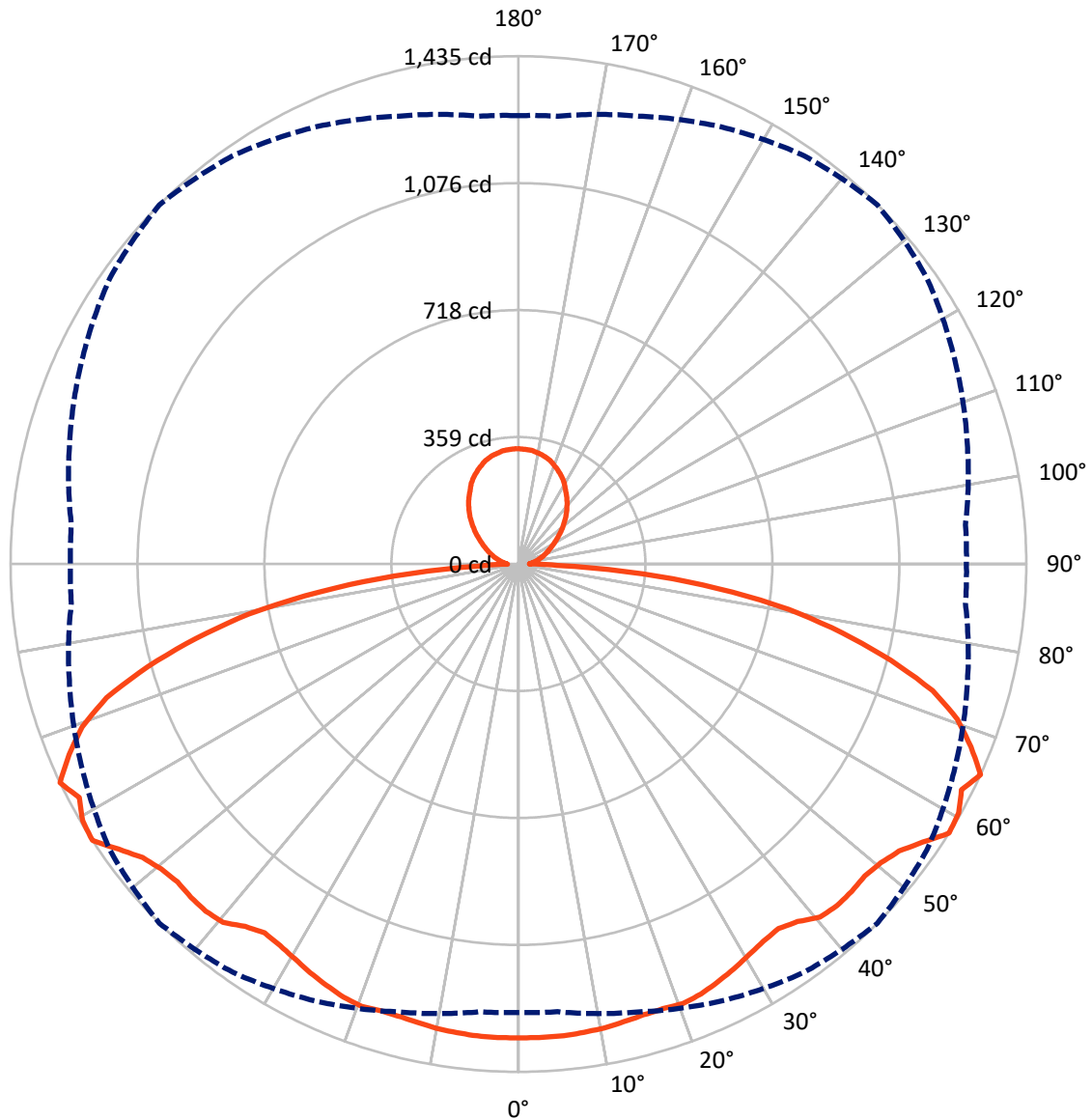


Based on 10 foot mounting height. Maximum calculated value = 13.4 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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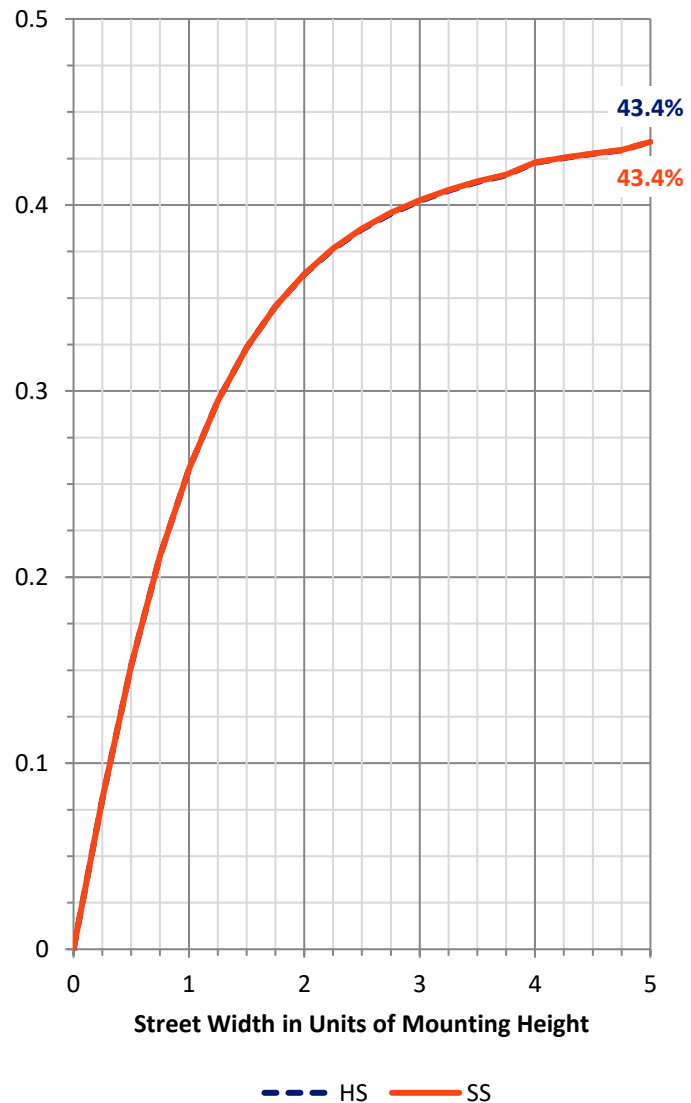
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3363.6	442.7	3806.3
	% Fixture	44.2	5.8	50.0
<b>Street Side</b>	Lumens	3363.6	442.7	3806.3
	% Fixture	44.2	5.8	50.0
<b>Total</b>	Lumens	6727.2	885.5	7612.7
	% Fixture	88.4	11.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.6	1.7
10°-20°	375.3	4.9
20°-30°	603.0	7.9
30°-40°	796.1	10.5
40°-50°	996.0	13.1
50°-60°	1184.7	15.6
60°-70°	1284.9	16.9
70°-80°	1022.8	13.4
80°-90°	336.7	4.4
90°-100°	45.4	0.6
100°-110°	70.3	0.9
110°-120°	97.7	1.3
120°-130°	126.6	1.7
130°-140°	147.6	1.9
140°-150°	149.5	2.0
150°-160°	129.8	1.7
160°-170°	87.7	1.2
170°-180°	30.8	0.4
0°-90°	6727.2	88.4
0°-180°	7612.7	100.0



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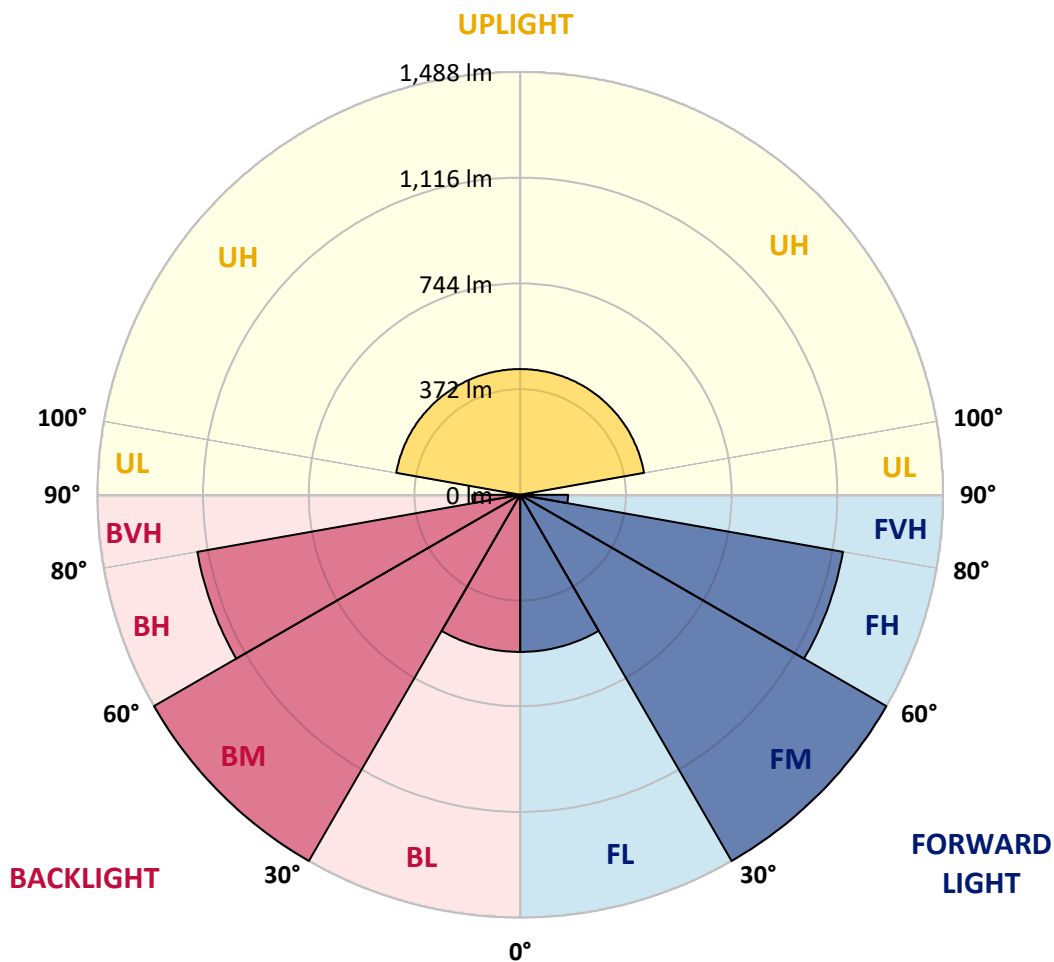
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.0	7.3			
FM (30°-60°)	1488.4	19.6			
FH (60°-80°)	1153.8	15.2			G1/1800
FVH (80°-90°)	168.4	2.2			G2/225
BL (0°-30°)	553.0	7.3	B2/1000		
BM (30°-60°)	1488.4	19.6	B2/2500		
BH (60°-80°)	1153.8	15.2	B3/2500		G1/1800
BVH (80°-90°)	168.4	2.2			G2/225
UL (90°-100°)	45.4	0.6		U2/50	
UH (100°-180°)	442.7	5.8		U3/500	

**BUG Rating: B3-U4-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1339	1339	1339	1339	1339	1339	1339	1339	1339	1339	1339
2.5°	1341	1340	1341	1340	1340	1339	1340	1340	1340	1340	1340
5°	1340	1339	1339	1340	1339	1339	1339	1339	1339	1339	1339
7.5°	1336	1336	1337	1336	1336	1336	1336	1336	1336	1337	1337
10°	1333	1332	1333	1333	1332	1333	1332	1333	1333	1333	1333
12.5°	1329	1328	1329	1329	1328	1327	1328	1328	1329	1329	1329
15°	1322	1322	1324	1323	1323	1322	1324	1323	1322	1323	1323
17.5°	1317	1317	1319	1321	1321	1321	1321	1320	1318	1319	1317
20°	1318	1319	1320	1323	1325	1326	1326	1323	1320	1321	1320
22.5°	1315	1314	1315	1317	1320	1320	1320	1316	1315	1314	1314
25°	1303	1303	1305	1307	1309	1308	1309	1307	1305	1303	1303
27.5°	1289	1289	1292	1294	1296	1296	1295	1293	1292	1290	1289
30°	1275	1275	1278	1280	1283	1282	1282	1279	1276	1274	1274
32.5°	1260	1259	1262	1267	1271	1271	1271	1265	1261	1259	1258
35°	1247	1247	1251	1260	1265	1265	1263	1259	1250	1247	1247
37.5°	1243	1246	1257	1270	1280	1282	1279	1268	1256	1247	1244
40°	1256	1259	1273	1294	1309	1312	1309	1293	1272	1258	1257
42.5°	1258	1260	1277	1301	1315	1320	1315	1299	1276	1259	1258
45°	1251	1252	1272	1297	1314	1320	1314	1295	1271	1252	1251
47.5°	1242	1244	1266	1292	1313	1317	1312	1291	1264	1245	1242
50°	1235	1241	1261	1290	1315	1327	1315	1287	1260	1239	1235
52.5°	1239	1241	1267	1308	1342	1347	1341	1308	1265	1241	1238
55°	1251	1260	1288	1347	1378	1387	1374	1345	1289	1260	1251
57.5°	1267	1270	1310	1362	1408	1435	1409	1361	1313	1268	1266
60°	1254	1245	1295	1356	1418	1429	1414	1357	1293	1244	1253
62.5°	1219	1225	1266	1350	1393	1405	1389	1350	1264	1230	1216
65°	1191	1227	1272	1332	1401	1435	1402	1330	1274	1221	1188
67.5°	1152	1159	1226	1300	1362	1379	1361	1301	1220	1154	1159
70°	1086	1076	1144	1230	1289	1316	1291	1226	1141	1074	1083
72.5°	977	983	1046	1137	1198	1224	1199	1130	1044	989	983
75°	863	870	931	1014	1076	1087	1080	1009	933	869	863
77.5°	733	740	790	881	918	935	920	886	788	739	731
80°	589	587	631	709	755	774	755	711	629	591	578
82.5°	421	423	464	518	562	568	559	523	460	428	410
85°	234	243	273	313	342	352	337	303	272	247	239
87.5°	56	61	71	90	101	111	101	94	67	61	56
90°	32	31	31	31	31	31	31	31	31	31	31
92.5°	37	37	36	36	36	36	36	36	36	36	36
95°	42	42	42	41	41	41	41	41	41	41	41
97.5°	48	48	47	47	47	47	47	47	47	47	47
100°	53	53	53	53	53	53	53	53	53	53	53
102.5°	60	59	60	60	59	59	59	60	60	60	59
105°	66	66	66	66	66	66	66	67	66	66	66
107.5°	73	73	73	74	74	74	74	74	73	74	73
110°	80	80	81	81	81	81	81	81	81	81	81



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	89	89	89	89	89	90	90	90	90	90	89
115°	97	97	98	98	98	98	99	99	98	98	98
117.5°	107	107	107	107	107	108	108	108	108	108	107
120°	117	117	117	118	118	118	119	119	118	118	118
122.5°	129	128	129	129	129	129	130	130	130	130	129
125°	140	140	141	141	141	141	142	142	142	142	141
127.5°	153	153	153	153	153	153	154	154	154	154	154
130°	165	165	166	166	166	166	167	167	167	167	166
132.5°	179	178	179	178	178	178	179	180	179	180	179
135°	191	191	191	191	191	191	192	192	192	192	192
137.5°	204	203	204	203	203	203	204	204	204	204	204
140°	216	215	216	215	216	216	216	216	216	216	216
142.5°	228	227	228	227	227	227	228	228	228	228	228
145°	239	239	239	238	239	239	239	239	239	239	239
147.5°	250	249	250	249	249	250	250	250	250	250	250
150°	263	262	263	262	263	263	263	263	263	263	263
152.5°	273	273	273	273	273	273	273	273	273	273	273
155°	282	282	283	282	282	282	283	282	282	282	282
157.5°	290	290	290	290	290	290	291	291	290	291	290
160°	298	298	299	298	298	298	299	298	298	298	298
162.5°	306	305	306	305	306	306	306	306	306	306	306
165°	311	311	312	311	311	311	312	311	311	311	311
167.5°	316	315	316	316	316	316	316	316	316	316	316
170°	319	319	320	319	319	319	320	319	319	319	319
172.5°	323	323	323	323	323	323	323	323	323	323	323
175°	324	324	325	324	325	324	325	324	324	324	324
177.5°	325	325	326	325	325	325	325	325	325	325	325
180°	326	326	326	326	326	326	326	326	326	326	326



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

**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  
 CIE u': 0.2297  
 CIE v': 0.5166  
 Duv: 0.0060  
 CIE x: 0.4044  
 CIE y: 0.4042  
 CIE z: 0.1914  
 Peak Wavelength (nm): 588  
 Dominant Wavelength (nm): 578  
 Purity: 42.8  
  
 Rf: 76.2  
 Rg: 94.3

CRI (Ra):	72.6		
R1:	69.4	R9:	-22.4
R2:	78.4	R10:	49.0
R3:	86.1	R11:	67.4
R4:	72.3	R12:	39.3
R5:	68.2	R13:	70.5
R6:	69.2	R14:	91.9
R7:	83.0		
R8:	54.2		

**Test Conditions**

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

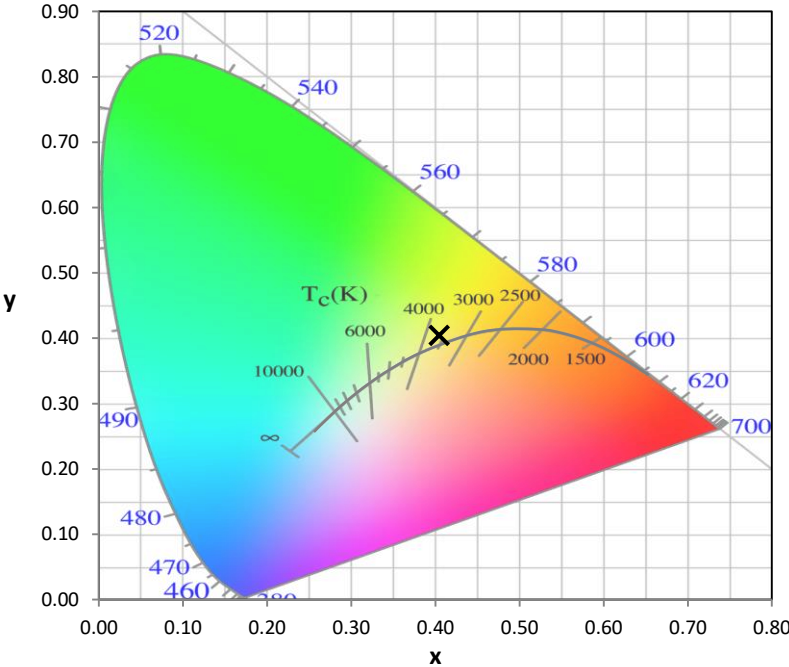


REPORT NUMBER: SP1-2006-844-6

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

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CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3500K 7-step quadrangle

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**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			

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**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: 1941.7**

**S/P: 0.51**

$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )
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			

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**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			

**Summary**

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



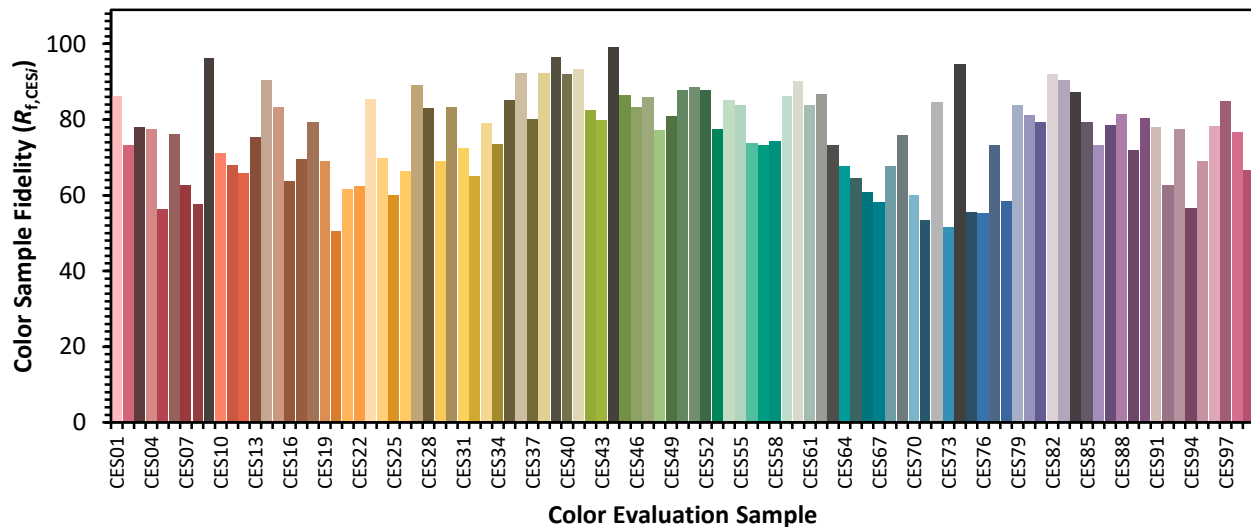
**Color Vector Graphics**



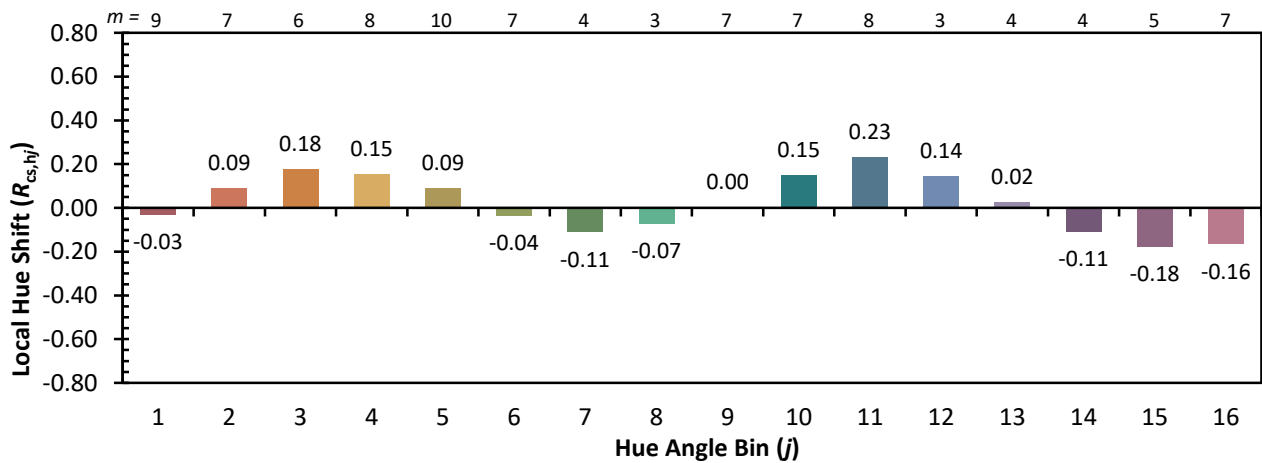
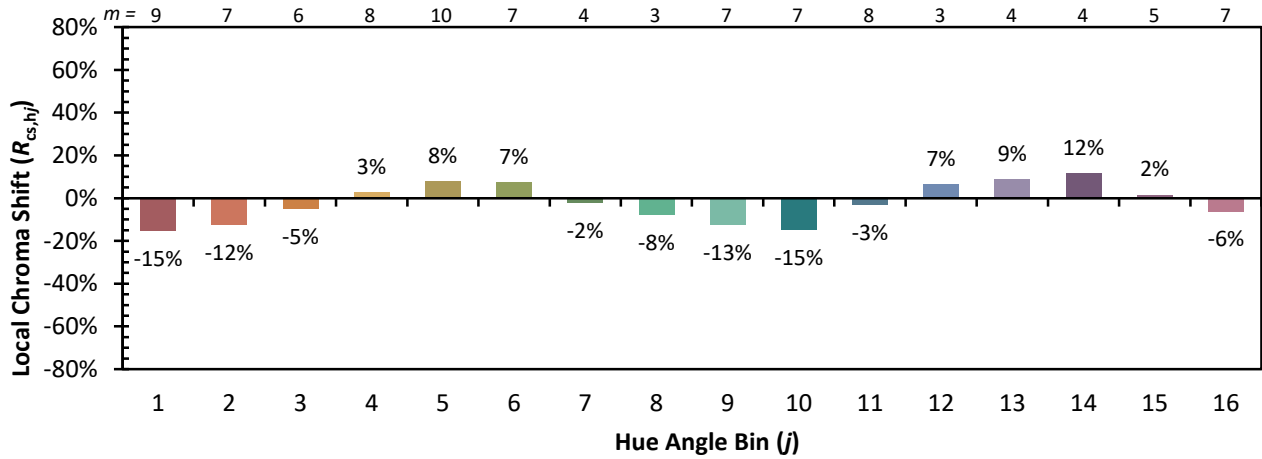


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

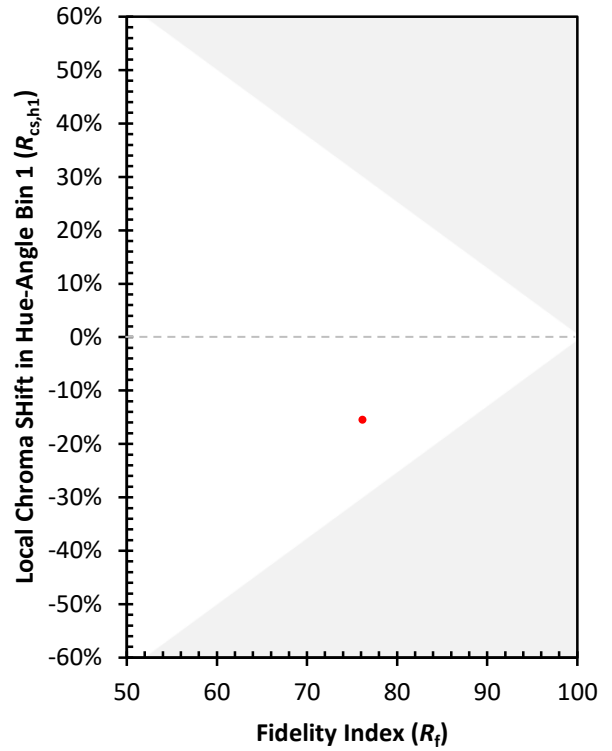
CES01 = 86	CES26 = 66	CES51 = 88	CES76 = 55
CES02 = 61	CES27 = 89	CES52 = 88	CES77 = 73
CES03 = 31	CES28 = 83	CES53 = 78	CES78 = 59
CES04 = 70	CES29 = 69	CES54 = 85	CES79 = 84
CES05 = 48	CES30 = 83	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 73	CES56 = 74	CES81 = 79
CES07 = 40	CES32 = 65	CES57 = 73	CES82 = 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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)