

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: P198399

Luminaire Tested: **TT-C3-LED-E1-RW-LWR-LW-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198399
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C3-LED-E1-RW-LWR-LW-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5361.3 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U4 - G3

Input Watts (W): 62.4
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: 25 FT

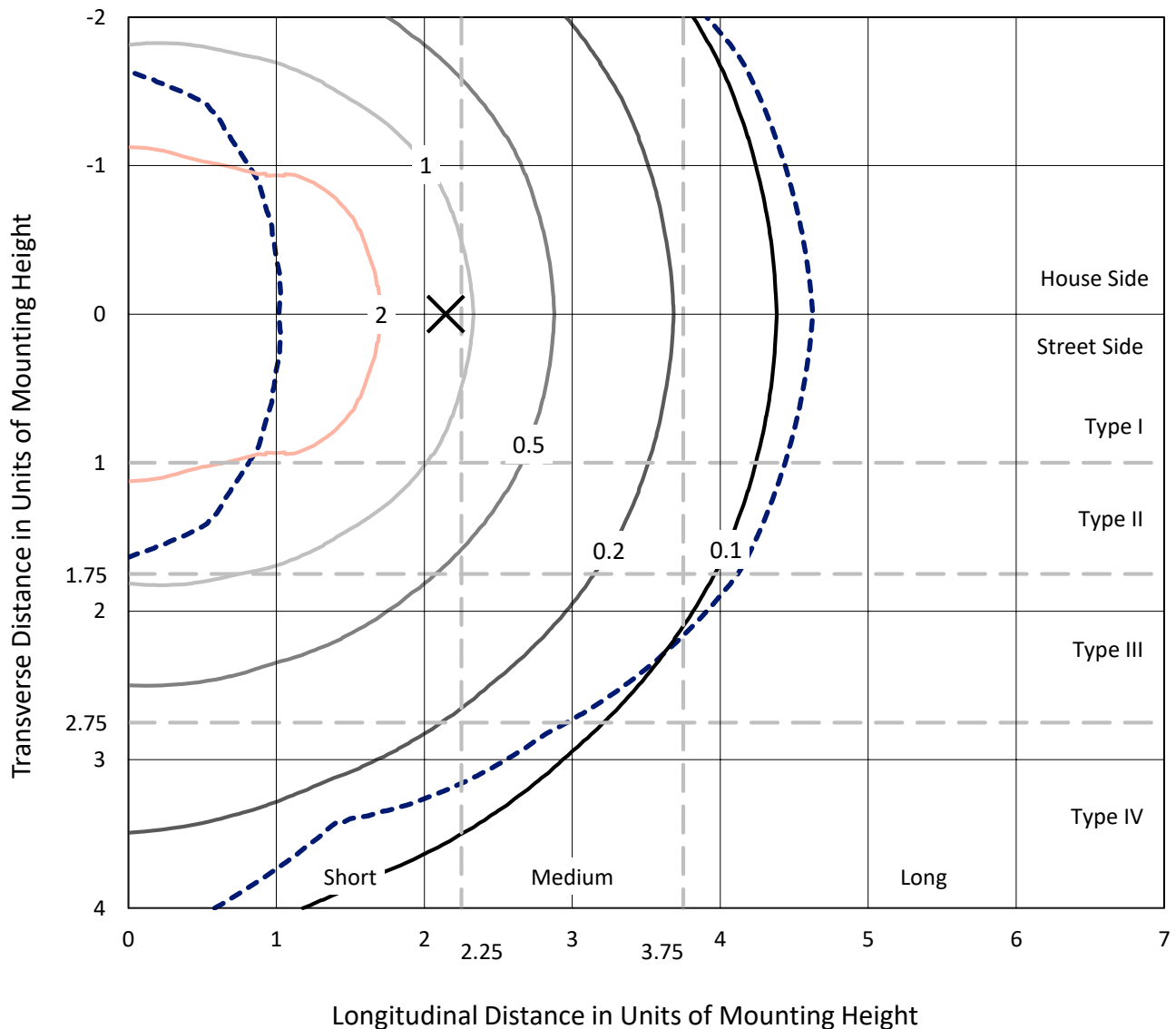


REPORT NUMBER: P198399

CATALOG NUMBER: TT-C3-LED-E1-RW-LWR-LW-UPL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

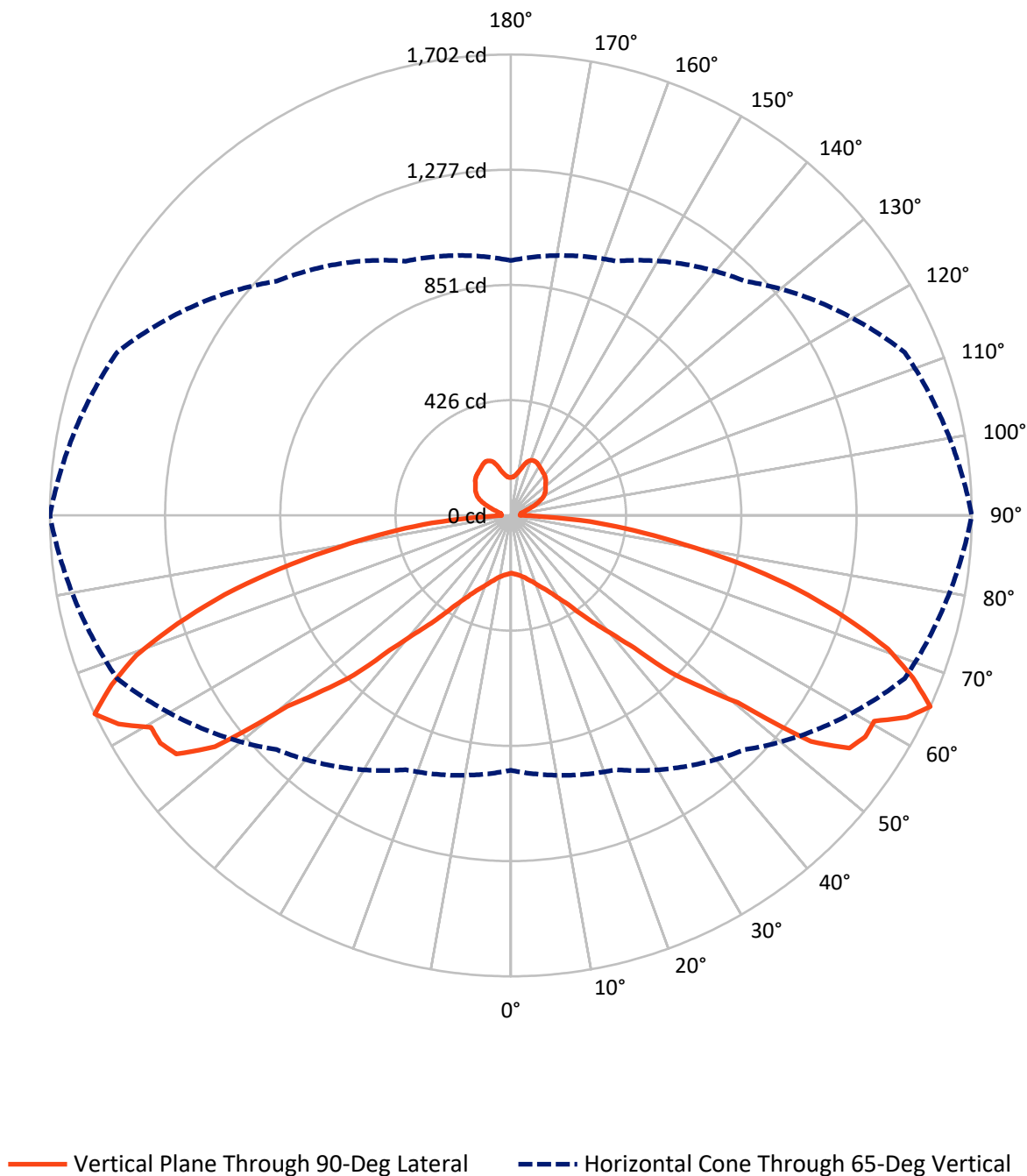


Based on 10 foot mounting height. Maximum calculated value = 3 fc
Type IV - Short - Semi-Cutoff

REPORT NUMBER: P198399

CATALOG NUMBER: TT-C3-LED-E1-RW-LWR-LW-UPL

Luminous Intensity Polar Plot



REPORT NUMBER: P198399

CATALOG NUMBER: TT-C3-LED-E1-RW-LWR-LW-UPL

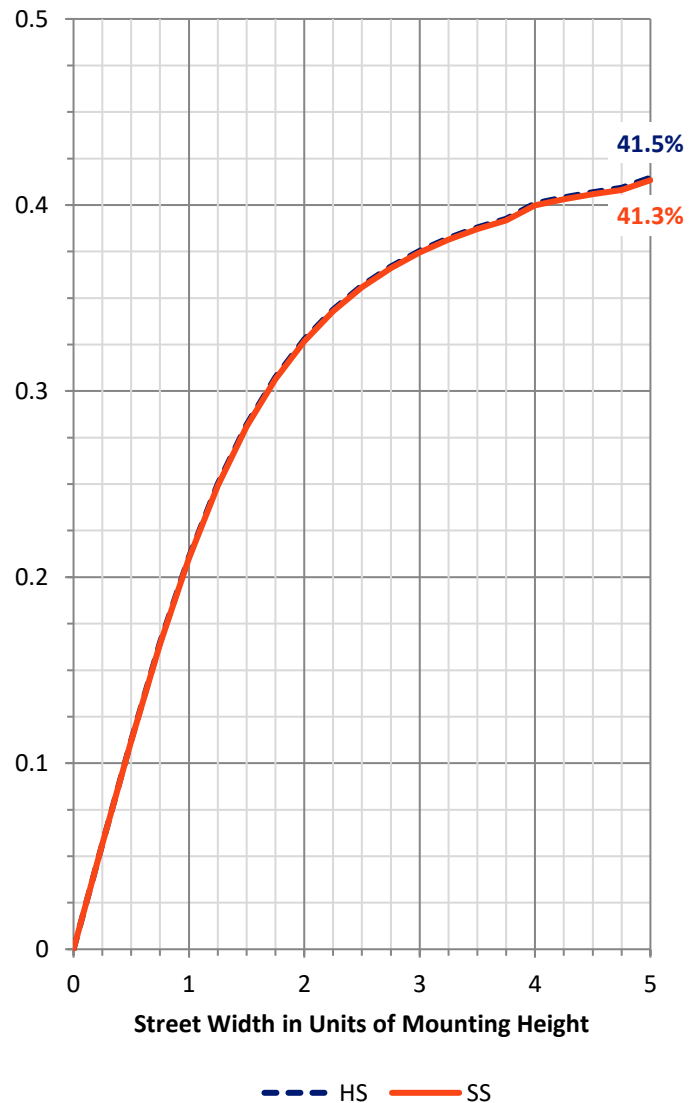
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2269.0	411.6	2680.6
	% Fixture	42.3	7.7	50.0
Street Side	Lumens	2269.0	411.6	2680.6
	% Fixture	42.3	7.7	50.0
Total	Lumens	4538.1	823.2	5361.3
	% Fixture	84.6	15.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	0.4
10°-20°	72.4	1.4
20°-30°	152.0	2.8
30°-40°	288.9	5.4
40°-50°	537.0	10.0
50°-60°	951.8	17.8
60°-70°	1236.1	23.1
70°-80°	984.5	18.4
80°-90°	294.1	5.5
90°-100°	38.2	0.7
100°-110°	59.5	1.1
110°-120°	118.9	2.2
120°-130°	148.3	2.8
130°-140°	152.8	2.8
140°-150°	136.2	2.5
150°-160°	103.9	1.9
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4538.1	84.6
0°-180°	5361.3	100.0

Coefficient of Utilization



REPORT NUMBER: P198399

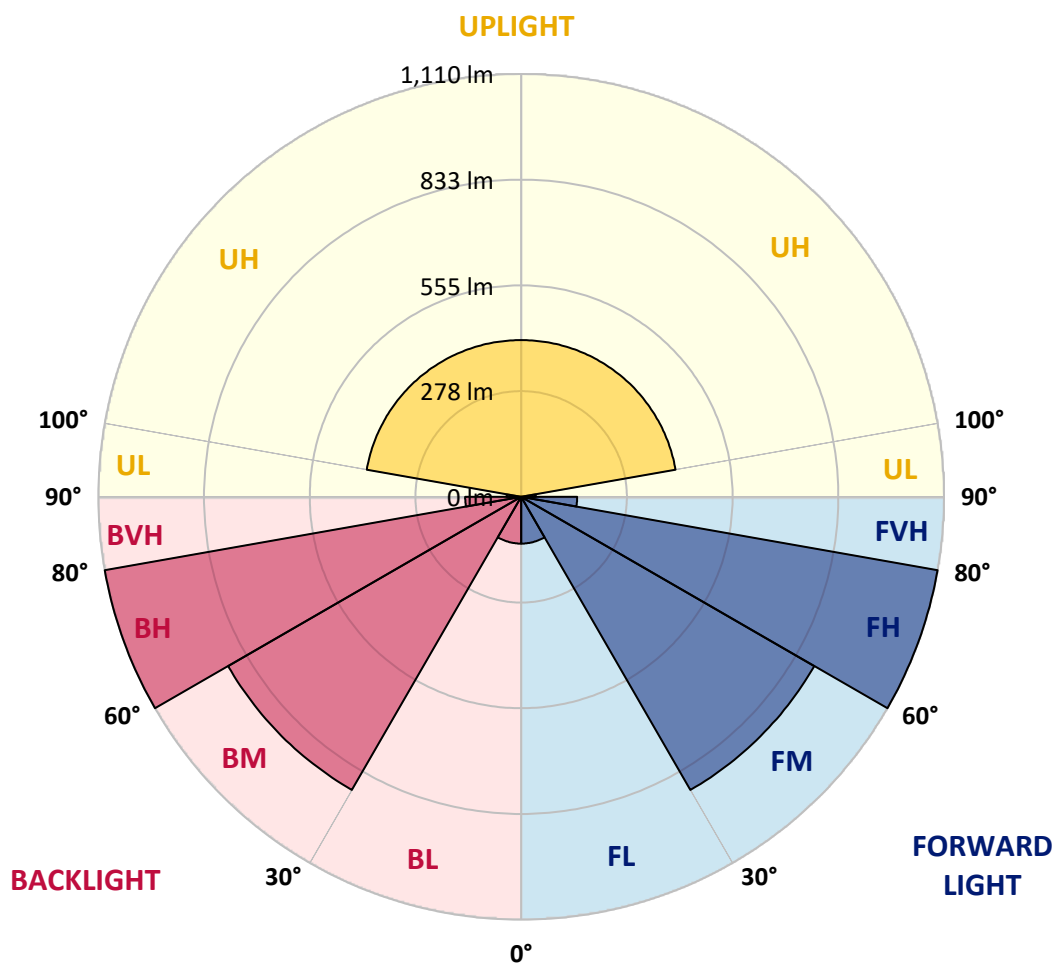
CATALOG NUMBER: TT-C3-LED-E1-RW-LWR-LW-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	122.8	2.3			
FM	(30°-60°)	888.9	16.6			
FH	(60°-80°)	1110.3	20.7			G1/1800
FVH	(80°-90°)	147.0	2.7			G2/225
BL	(0°-30°)	122.8	2.3	B1/500		
BM	(30°-60°)	888.9	16.6	B1/1000		
BH	(60°-80°)	1110.3	20.7	B3/2500		G3/2500
BVH	(80°-90°)	147.0	2.7			G2/225
UL	(90°-100°)	38.2	0.7		U2/50	
UH	(100°-180°)	411.6	7.7		U3/500	

BUG Rating: B3-U4-G3

Type IV Short



REPORT NUMBER: P198399

CATALOG NUMBER: TT-C3-LED-E1-RW-LWR-LW-UPL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	213	213	213	213	213
2.5°	215	215	216	216	216
5°	219	219	220	220	219
7.5°	224	226	225	223	223
10°	232	233	231	230	229
12.5°	242	243	239	238	236
15°	256	255	251	247	247
17.5°	275	269	262	259	257
20°	297	289	280	273	272
22.5°	322	311	299	289	288
25°	346	337	322	309	305
27.5°	372	365	346	331	328
30°	402	396	374	360	359
32.5°	437	429	405	395	394
35°	479	464	443	436	448
37.5°	519	502	485	497	507
40°	554	543	535	560	574
42.5°	588	582	588	625	668
45°	624	626	648	749	826
47.5°	666	667	719	874	947
50°	712	711	803	968	1085
52.5°	757	761	887	1170	1387
55°	797	819	1001	1373	1517
57.5°	832	874	1108	1433	1543
60°	870	940	1183	1445	1542
62.5°	907	992	1199	1498	1641
65°	941	1016	1223	1574	1702
67.5°	969	1028	1223	1508	1601
70°	992	1013	1152	1389	1477
72.5°	987	951	1035	1243	1294
75°	940	842	912	1046	1097
77.5°	822	705	743	843	876
80°	651	550	572	636	646
82.5°	459	395	403	452	459
85°	270	243	235	279	293
87.5°	80	70	69	84	93
90°	36	35	26	33	34
92.5°	40	35	27	33	36
95°	44	37	30	35	38
97.5°	42	38	33	35	36
100°	45	41	36	38	37
102.5°	51	47	42	43	41
105°	60	55	52	52	49
107.5°	72	68	68	65	60
110°	86	86	87	83	75

REPORT NUMBER: P198399

CATALOG NUMBER: TT-C3-LED-E1-RW-LWR-LW-UPL

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101	107	107	104	94
115°	121	127	124	125	113
117.5°	140	141	136	140	129
120°	152	150	147	151	142
122.5°	161	157	158	159	150
125°	169	166	168	166	158
127.5°	177	174	178	174	163
130°	187	182	186	182	169
132.5°	198	190	195	191	176
135°	210	196	201	200	184
137.5°	221	200	208	209	190
140°	229	203	213	216	195
142.5°	235	204	218	220	198
145°	235	205	223	222	202
147.5°	230	209	229	224	206
150°	224	215	235	226	211
152.5°	216	220	241	229	216
155°	208	223	243	231	219
157.5°	203	222	235	228	219
160°	199	213	219	219	215
162.5°	185	194	198	201	207
165°	169	173	177	181	192
167.5°	154	156	159	165	174
170°	142	144	147	152	160
172.5°	137	139	141	145	151
175°	136	137	139	141	144
177.5°	137	138	139	139	141
180°	140	140	140	140	140

(END OF REPORT)