

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: P198122

Luminaire Tested: **TT-C4-LED-E1-RW-SG-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34700)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-RW-SG-MS/DIM
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY
SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5457.1 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 58
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



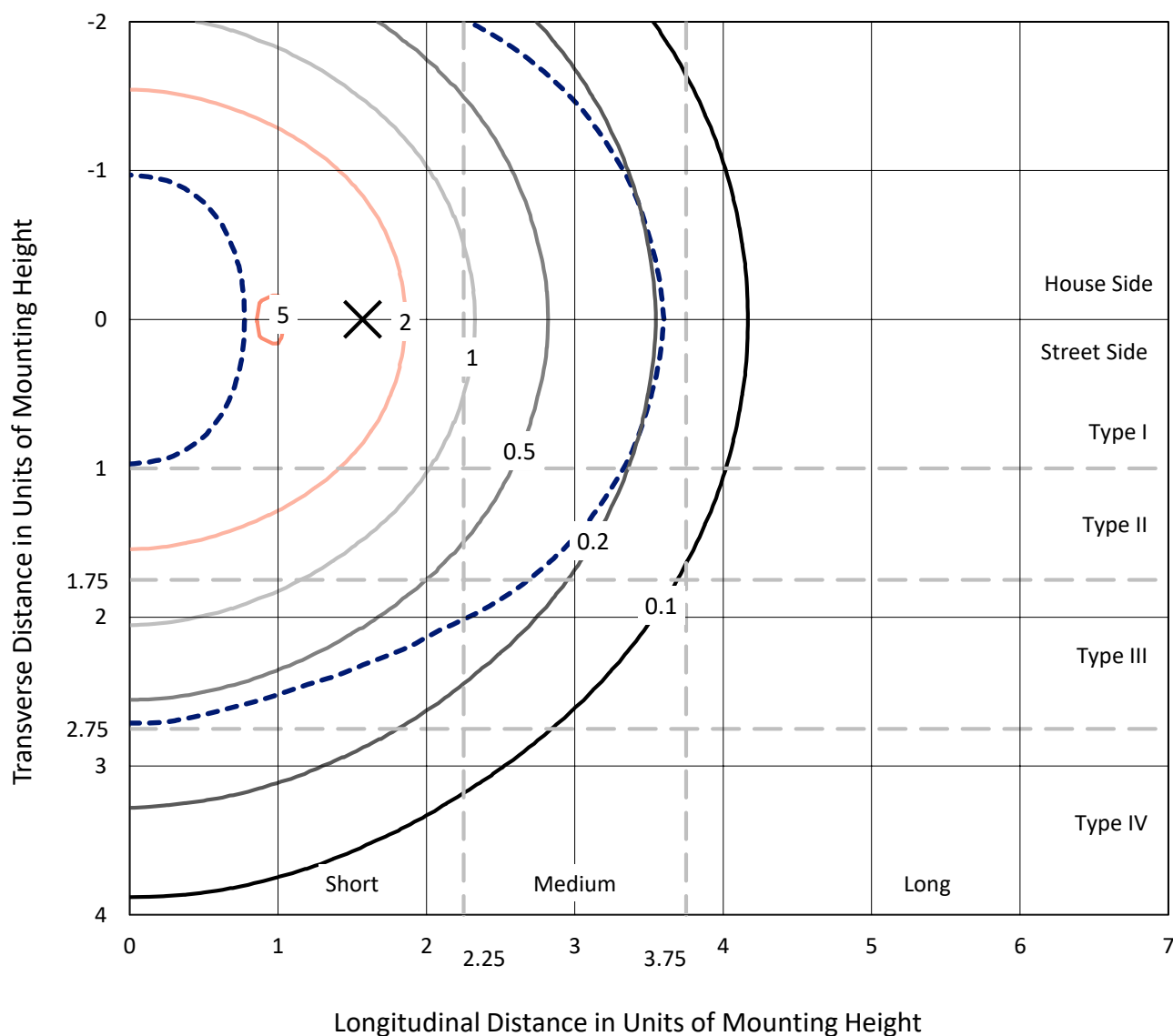
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

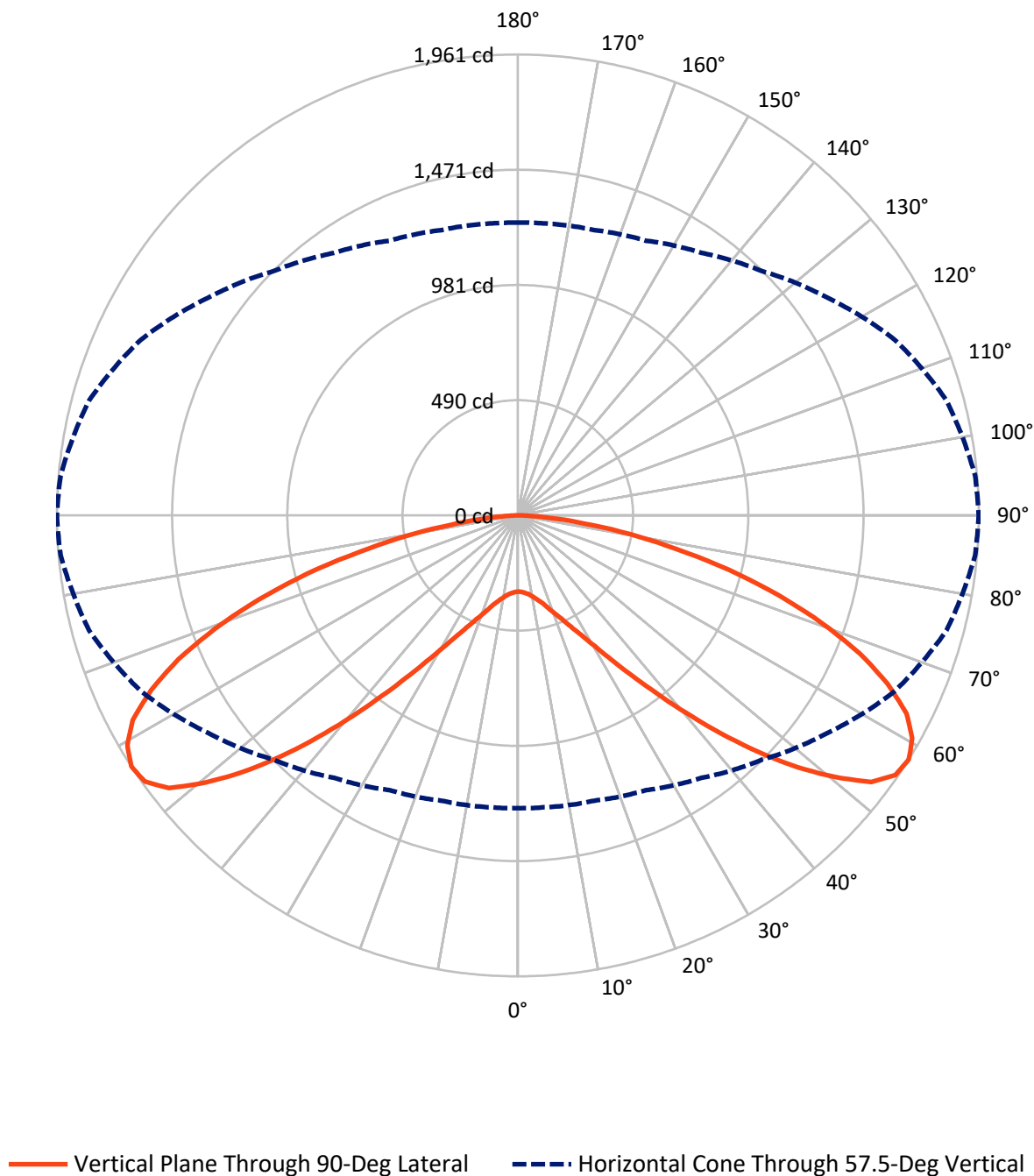


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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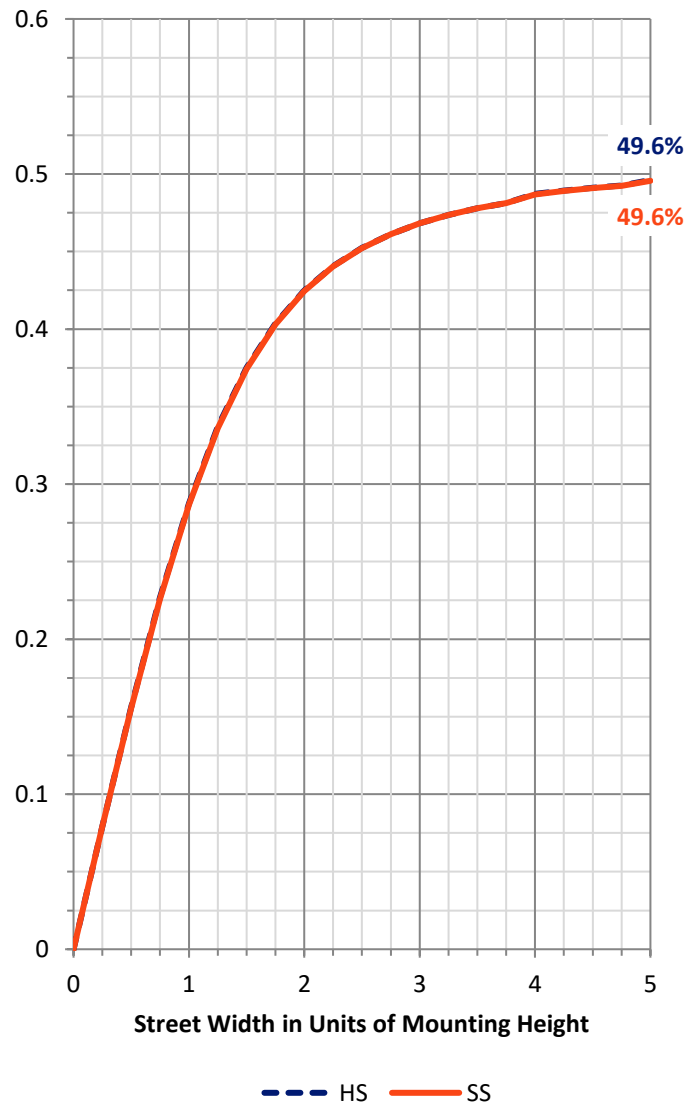
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2728.5	0.0	2728.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2728.5	0.0	2728.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5457.1	0.0	5457.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	0.6
10°-20°	111.4	2.0
20°-30°	243.1	4.5
30°-40°	488.0	8.9
40°-50°	911.2	16.7
50°-60°	1342.1	24.6
60°-70°	1352.0	24.8
70°-80°	807.1	14.8
80°-90°	170.1	3.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5457.1	100.0
0°-180°	5457.1	100.0

Coefficient of Utilization



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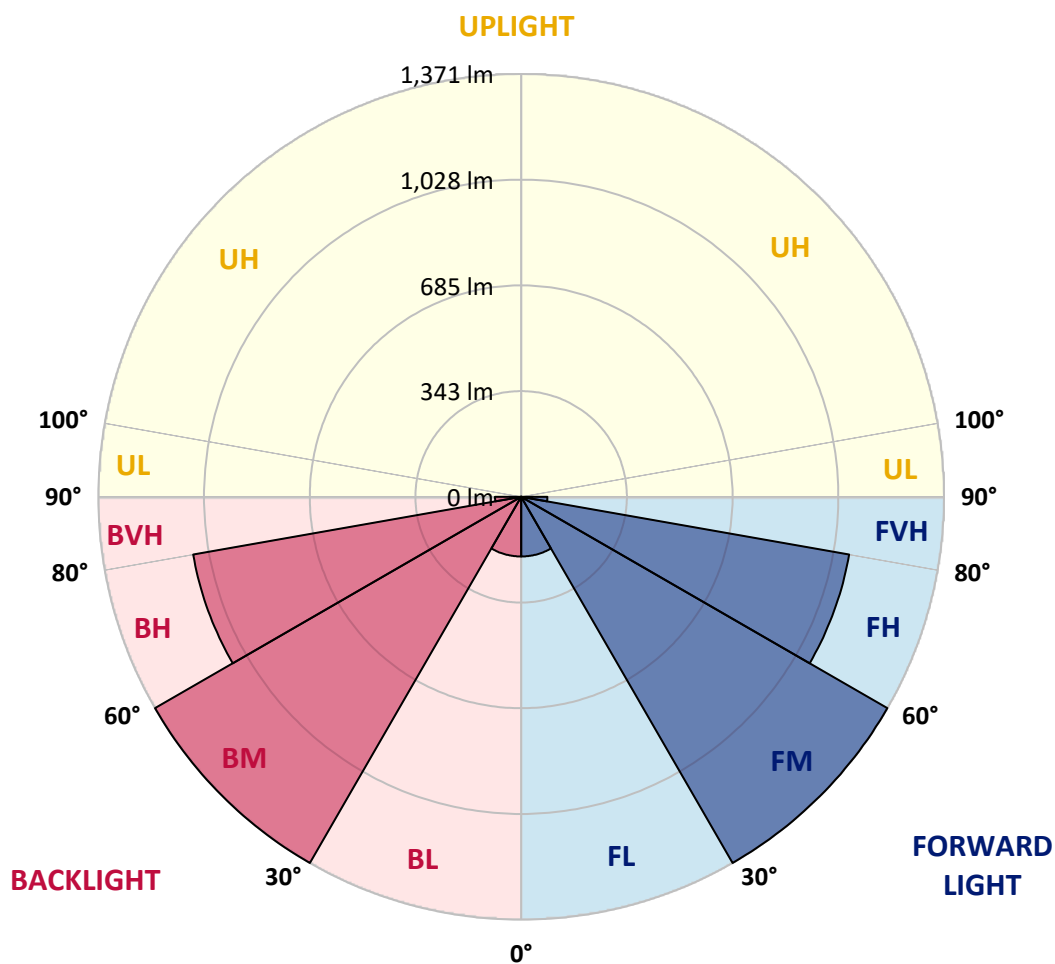
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	193.4	3.5			
FM	(30°-60°)	1370.6	25.1			
FH	(60°-80°)	1079.5	19.8			G1/1800
FVH	(80°-90°)	85.0	1.6			G1/100
BL	(0°-30°)	193.4	3.5	B1/500		
BM	(30°-60°)	1370.6	25.1	B2/2500		
BH	(60°-80°)	1079.5	19.8	B3/2500		G3/2500
BVH	(80°-90°)	85.0	1.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5
2.5°	326.9	326.9	326.9	326.9	326.9	325.7	326.9	325.7	325.7	325.7	325.7
5°	330.5	330.5	330.5	331.6	331.6	331.6	331.6	330.5	331.6	330.5	331.6
7.5°	338.7	338.7	338.7	338.7	338.7	338.7	339.9	338.7	339.9	338.7	338.7
10°	349.4	349.4	349.4	349.4	350.6	350.6	350.6	351.8	351.8	351.8	351.8
12.5°	364.8	364.8	364.8	364.8	364.8	364.8	366.0	366.0	367.2	367.2	367.2
15°	384.9	384.9	383.7	383.7	383.7	384.9	384.9	387.3	386.1	386.1	386.1
17.5°	409.8	408.6	408.6	408.6	408.6	408.6	408.6	411.0	411.0	411.0	412.2
20°	437.0	439.4	438.2	435.9	435.9	435.9	437.0	439.4	439.4	443.0	444.2
22.5°	474.9	476.1	473.8	472.6	469.0	469.0	472.6	473.8	478.5	477.3	478.5
25°	515.2	514.0	512.9	510.5	510.5	510.5	512.9	516.4	520.0	523.5	523.5
27.5°	560.2	559.0	557.9	556.7	554.3	557.9	560.2	568.5	570.9	579.2	576.8
30°	610.0	611.2	608.8	607.6	606.4	607.6	617.1	628.9	638.4	644.3	645.5
32.5°	665.6	666.8	665.6	663.3	665.6	671.6	683.4	698.8	717.8	728.4	732.0
35°	727.2	729.6	727.2	729.6	732.0	742.6	763.9	787.6	820.8	830.3	836.2
37.5°	793.6	791.2	790.0	793.6	804.2	826.7	856.3	897.8	932.1	960.6	960.6
40°	859.9	861.1	862.3	862.3	882.4	913.2	961.7	1017.4	1068.3	1105.1	1106.2
42.5°	930.9	930.9	930.9	941.6	966.5	1015.0	1077.8	1159.5	1229.4	1263.8	1268.5
45°	1003.2	1007.9	1010.3	1024.5	1061.2	1122.8	1205.7	1304.0	1392.9	1439.1	1436.7
47.5°	1074.3	1080.2	1084.9	1106.2	1156.0	1222.3	1325.4	1443.8	1544.5	1596.6	1601.3
50°	1147.7	1144.1	1153.6	1179.7	1235.3	1320.6	1430.8	1567.0	1681.9	1745.8	1750.6
52.5°	1196.3	1195.1	1204.5	1231.8	1296.9	1392.9	1519.6	1674.8	1799.1	1865.4	1884.4
55°	1230.6	1229.4	1240.1	1272.1	1343.1	1445.0	1582.4	1745.8	1871.4	1940.1	1949.5
57.5°	1246.0	1247.2	1256.7	1289.8	1363.3	1469.9	1612.0	1769.5	1889.1	1953.1	1961.4
60°	1243.6	1244.8	1253.1	1285.1	1357.3	1460.4	1597.8	1745.8	1859.5	1918.7	1928.2
62.5°	1218.8	1217.6	1224.7	1251.9	1315.9	1411.8	1543.3	1683.0	1790.8	1845.3	1856.0
65°	1166.6	1165.5	1165.5	1189.1	1243.6	1325.4	1449.7	1574.1	1674.8	1726.9	1729.2
67.5°	1081.4	1081.4	1079.0	1093.2	1133.5	1212.8	1319.4	1433.1	1514.9	1563.4	1570.5
70°	966.5	968.8	960.6	968.8	1002.0	1064.8	1159.5	1250.7	1314.7	1370.4	1373.9
72.5°	840.9	831.5	827.9	830.3	855.1	895.4	977.1	1054.1	1113.3	1151.2	1158.4
75°	678.7	678.7	676.3	672.7	687.0	727.2	781.7	844.5	894.2	920.3	929.8
77.5°	520.0	524.7	517.6	517.6	528.2	559.0	606.4	640.8	676.3	694.1	689.3
80°	369.5	368.4	364.8	362.4	374.3	392.0	429.9	450.1	460.7	477.3	484.4
82.5°	228.6	231.0	234.5	223.9	228.6	245.2	265.3	276.0	280.7	287.8	286.6
85°	112.5	113.7	114.9	116.1	116.1	122.0	133.8	138.6	142.1	145.7	143.3
87.5°	41.5	39.1	37.9	37.9	37.9	39.1	45.0	43.8	46.2	46.2	48.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)