

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: P198098

Luminaire Tested: **TT-C4-LED-E1-RW-SG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34701)
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-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS
SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5124.9 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

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



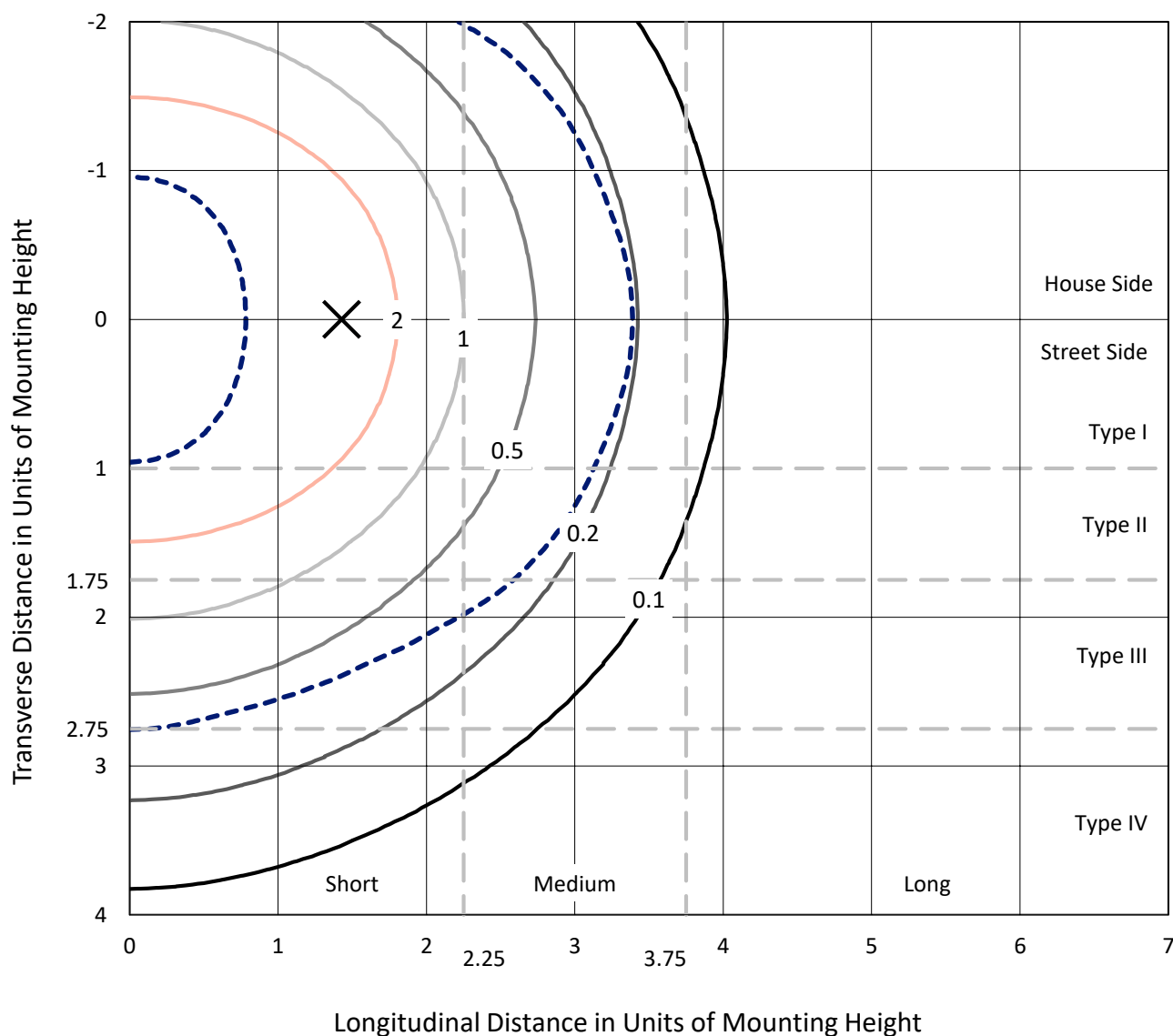
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

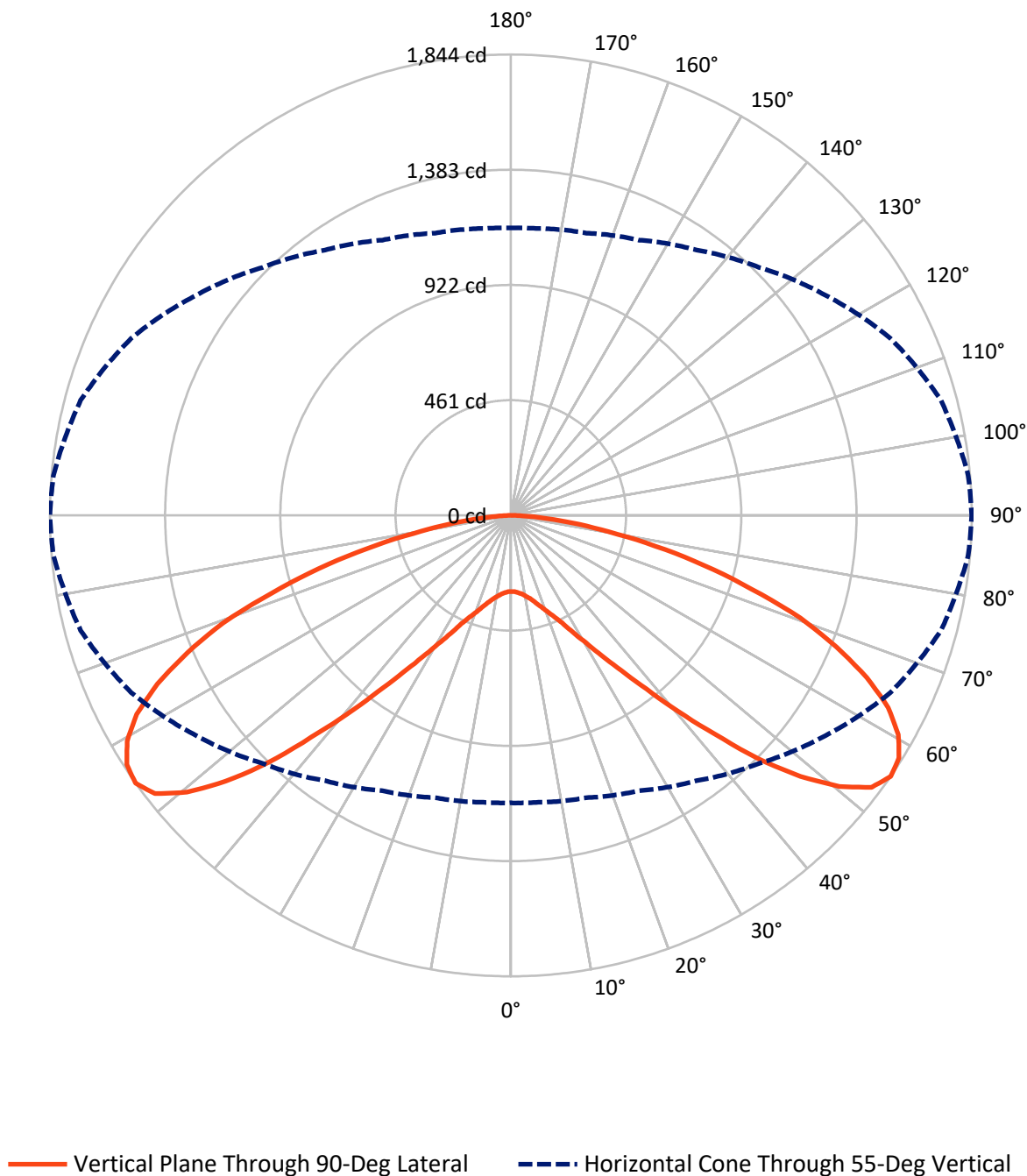


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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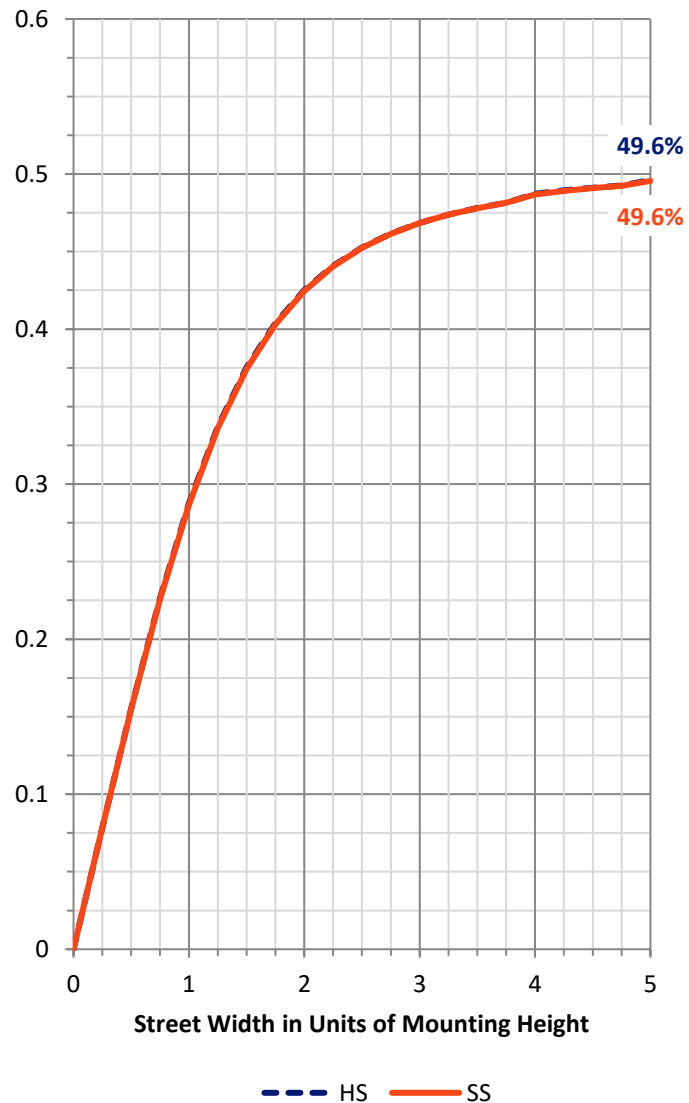
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2562.4	0.0	2562.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2562.4	0.0	2562.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	5124.9	0.0	5124.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.2	0.6
10°-20°	104.6	2.0
20°-30°	228.5	4.5
30°-40°	459.6	9.0
40°-50°	868.5	16.9
50°-60°	1281.1	25.0
60°-70°	1261.9	24.6
70°-80°	734.8	14.3
80°-90°	155.6	3.0
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°	5124.9	100.0
0°-180°	5124.9	100.0

Coefficient of Utilization



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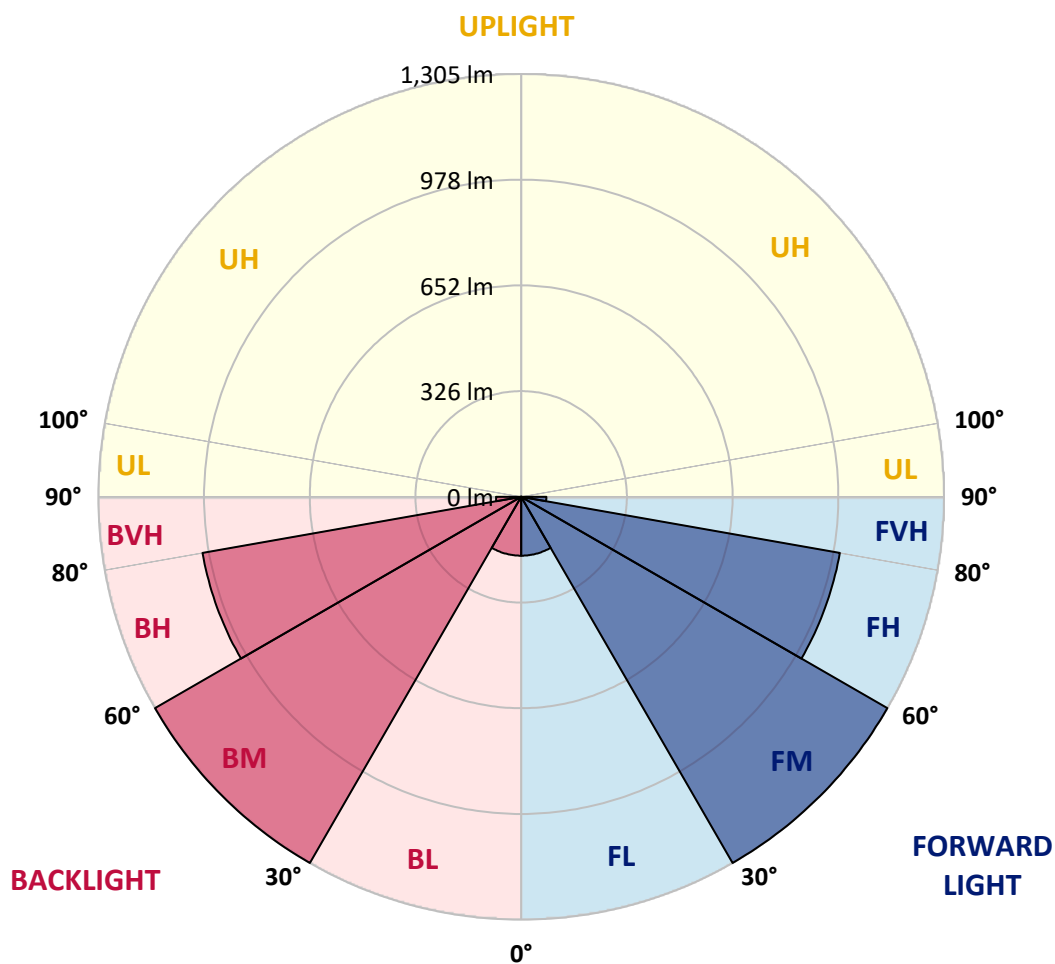
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.7	3.5			
FM	(30°-60°)	1304.6	25.5			
FH	(60°-80°)	998.4	19.5			G1/1800
FVH	(80°-90°)	77.8	1.5			G1/100
BL	(0°-30°)	181.7	3.5	B1/500		
BM	(30°-60°)	1304.6	25.5	B2/2500		
BH	(60°-80°)	998.4	19.5	B2/1000		G2/1000
BVH	(80°-90°)	77.8	1.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4
2.5°	306.8	306.8	306.8	306.8	305.6	306.8	305.6	305.6	305.6	305.6	305.6
5°	310.3	311.5	310.3	310.3	310.3	310.3	310.3	310.3	309.1	309.1	310.3
7.5°	318.6	318.6	318.6	318.6	317.4	318.6	317.4	317.4	317.4	317.4	317.4
10°	330.5	330.5	330.5	330.5	329.3	329.3	329.3	328.1	328.1	328.1	328.1
12.5°	344.7	345.8	345.8	344.7	343.5	343.5	342.3	342.3	342.3	342.3	341.1
15°	366.0	364.8	364.8	362.4	362.4	360.1	361.2	360.1	358.9	357.7	358.9
17.5°	387.3	388.5	388.5	386.1	384.9	383.7	381.4	381.4	380.2	381.4	381.4
20°	420.5	420.5	418.1	415.7	412.2	411.0	408.6	408.6	406.3	408.6	408.6
22.5°	453.6	453.6	451.3	450.1	445.3	441.8	440.6	439.4	438.2	440.6	438.2
25°	495.1	495.1	492.7	488.0	483.2	482.1	478.5	478.5	479.7	480.9	476.1
27.5°	537.7	538.9	536.5	533.0	528.2	523.5	523.5	524.7	525.9	530.6	529.4
30°	589.8	588.7	585.1	580.4	578.0	574.4	575.6	580.4	585.1	589.8	589.8
32.5°	643.1	642.0	640.8	636.0	634.8	633.7	639.6	649.1	658.5	662.1	668.0
35°	700.0	700.0	698.8	695.2	697.6	703.5	713.0	730.8	745.0	761.6	761.6
37.5°	762.8	760.4	761.6	761.6	767.5	778.2	800.7	835.0	864.6	881.2	881.2
40°	827.9	824.4	825.5	831.5	842.1	868.2	907.3	954.6	1002.0	1023.3	1030.4
42.5°	890.7	887.1	891.9	897.8	923.8	964.1	1022.1	1094.4	1161.9	1195.1	1193.9
45°	948.7	951.1	957.0	971.2	1009.1	1068.3	1151.2	1248.4	1336.0	1375.1	1389.3
47.5°	1006.7	1007.9	1016.2	1041.1	1094.4	1169.0	1269.7	1398.8	1495.9	1542.1	1559.9
50°	1061.2	1063.6	1077.8	1113.3	1176.1	1266.1	1390.5	1527.9	1634.5	1689.0	1704.4
52.5°	1109.8	1112.2	1128.7	1172.6	1247.2	1351.4	1481.7	1622.6	1735.2	1797.9	1807.4
55°	1150.1	1152.4	1169.0	1215.2	1295.7	1403.5	1536.2	1675.9	1781.4	1837.0	1844.1
57.5°	1173.8	1174.9	1192.7	1240.1	1319.4	1420.1	1548.0	1683.0	1775.4	1825.2	1831.1
60°	1174.9	1177.3	1193.9	1236.5	1310.0	1402.3	1524.3	1645.1	1729.2	1774.2	1781.4
62.5°	1153.6	1154.8	1169.0	1202.2	1265.0	1345.5	1458.0	1567.0	1642.8	1686.6	1694.9
65°	1105.1	1105.1	1112.2	1137.0	1185.6	1254.3	1350.2	1450.9	1520.8	1561.1	1565.8
67.5°	1024.5	1024.5	1025.7	1042.3	1075.4	1129.9	1211.7	1295.7	1358.5	1398.8	1404.7
70°	921.5	920.3	910.8	921.5	942.8	989.0	1061.2	1125.2	1176.1	1208.1	1229.4
72.5°	791.2	786.4	779.3	777.0	798.3	838.6	897.8	941.6	970.0	1004.4	1006.7
75°	639.6	637.2	627.7	627.7	649.1	681.0	728.4	758.0	772.2	794.7	799.5
77.5°	477.3	476.1	479.7	480.9	492.7	527.1	554.3	575.6	572.1	586.3	591.0
80°	334.0	336.4	336.4	335.2	347.0	360.1	389.7	395.6	390.9	395.6	395.6
82.5°	212.0	210.8	208.5	212.0	221.5	232.1	244.0	245.2	248.7	245.2	247.5
85°	106.6	105.4	107.8	109.0	113.7	119.6	130.3	132.7	126.7	126.7	124.4
87.5°	36.7	39.1	36.7	37.9	37.9	43.8	42.6	42.6	42.6	42.6	45.0
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)