

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: P198099

Luminaire Tested: **TT-C4-LED-E1-RW-SG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198099
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS
SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5076.4 lumens
Efficiency: N/A
Efficacy: 87.5 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



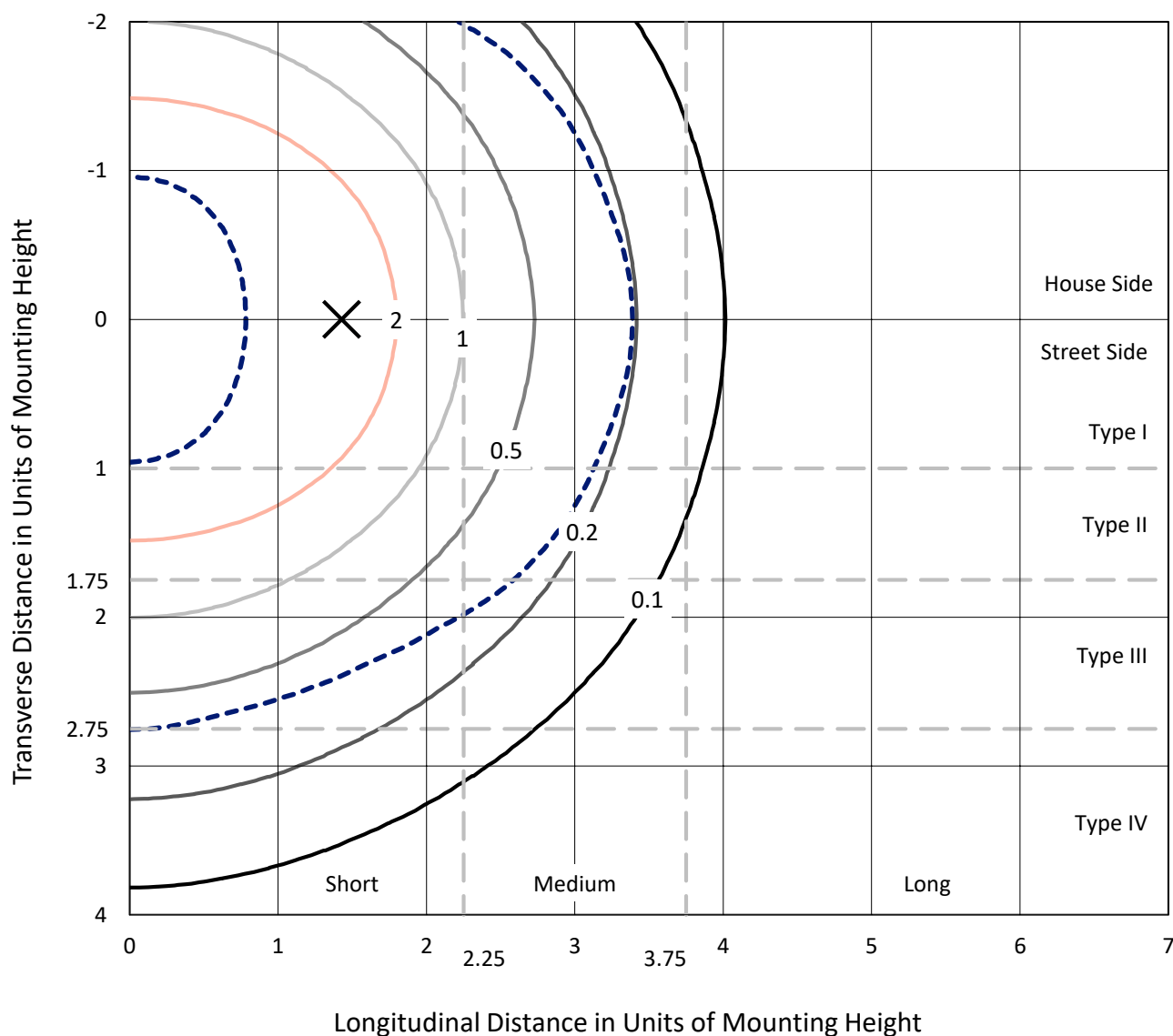
REPORT NUMBER: P198099

CATALOG NUMBER: TT-C4-LED-E1-RW-SG-LWR-LW-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

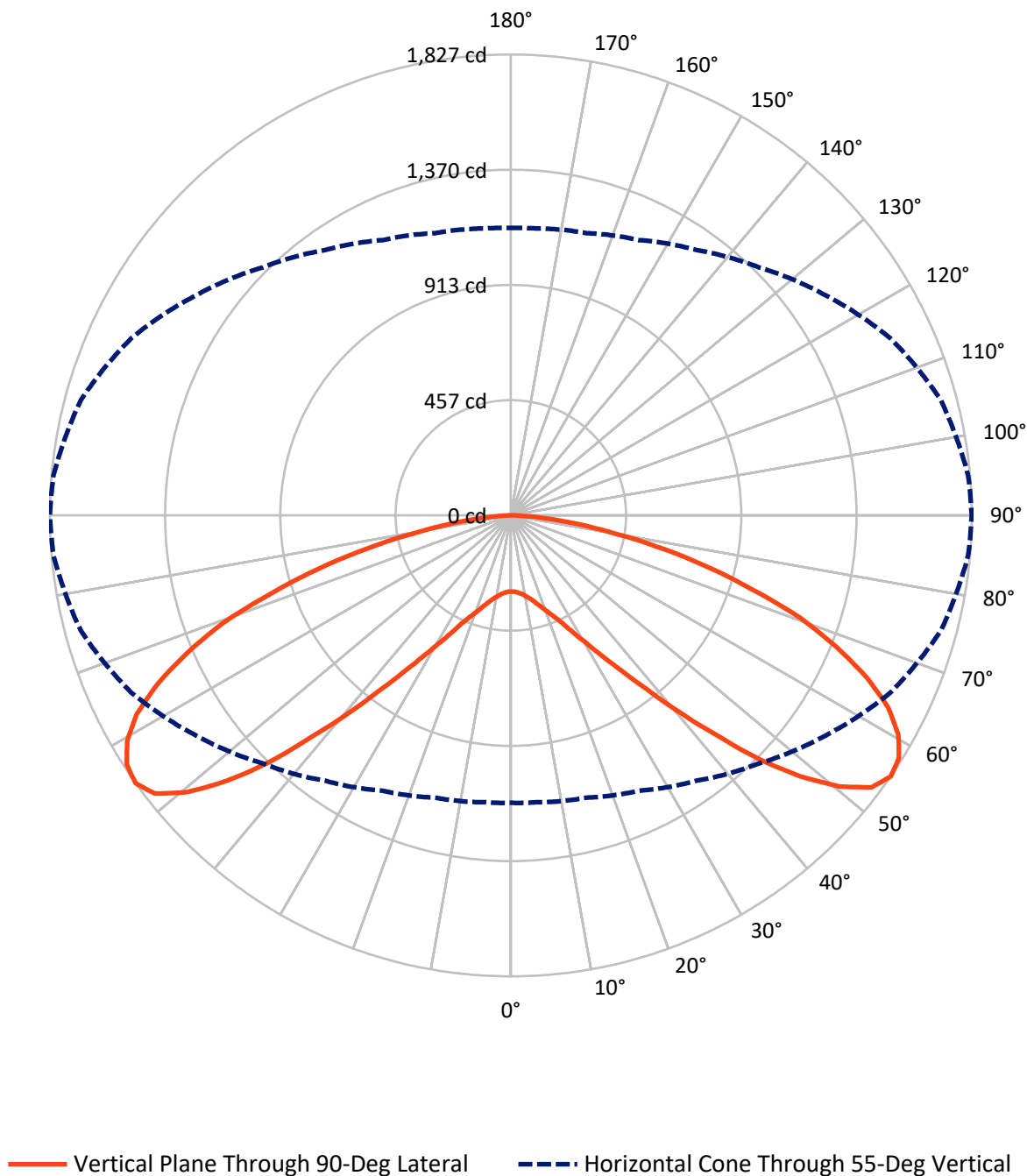


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
Type III - Short - Full Cutoff

REPORT NUMBER: P198099

CATALOG NUMBER: TT-C4-LED-E1-RW-SG-LWR-LW-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P198099

CATALOG NUMBER: TT-C4-LED-E1-RW-SG-LWR-LW-7050

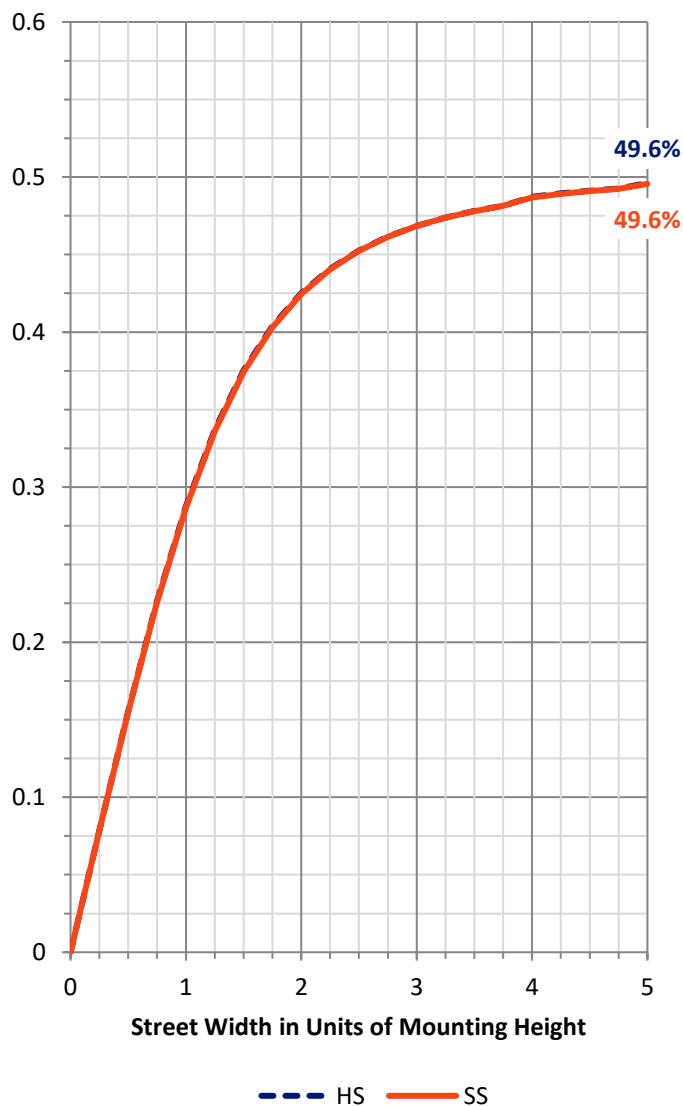
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2538.2	0.0	2538.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2538.2	0.0	2538.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5076.4	0.0	5076.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.9	0.6
10°-20°	103.6	2.0
20°-30°	226.4	4.5
30°-40°	455.2	9.0
40°-50°	860.3	16.9
50°-60°	1269.0	25.0
60°-70°	1250.0	24.6
70°-80°	727.9	14.3
80°-90°	154.1	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°	5076.4	100.0
0°-180°	5076.4	100.0

Coefficient of Utilization



REPORT NUMBER: P198099

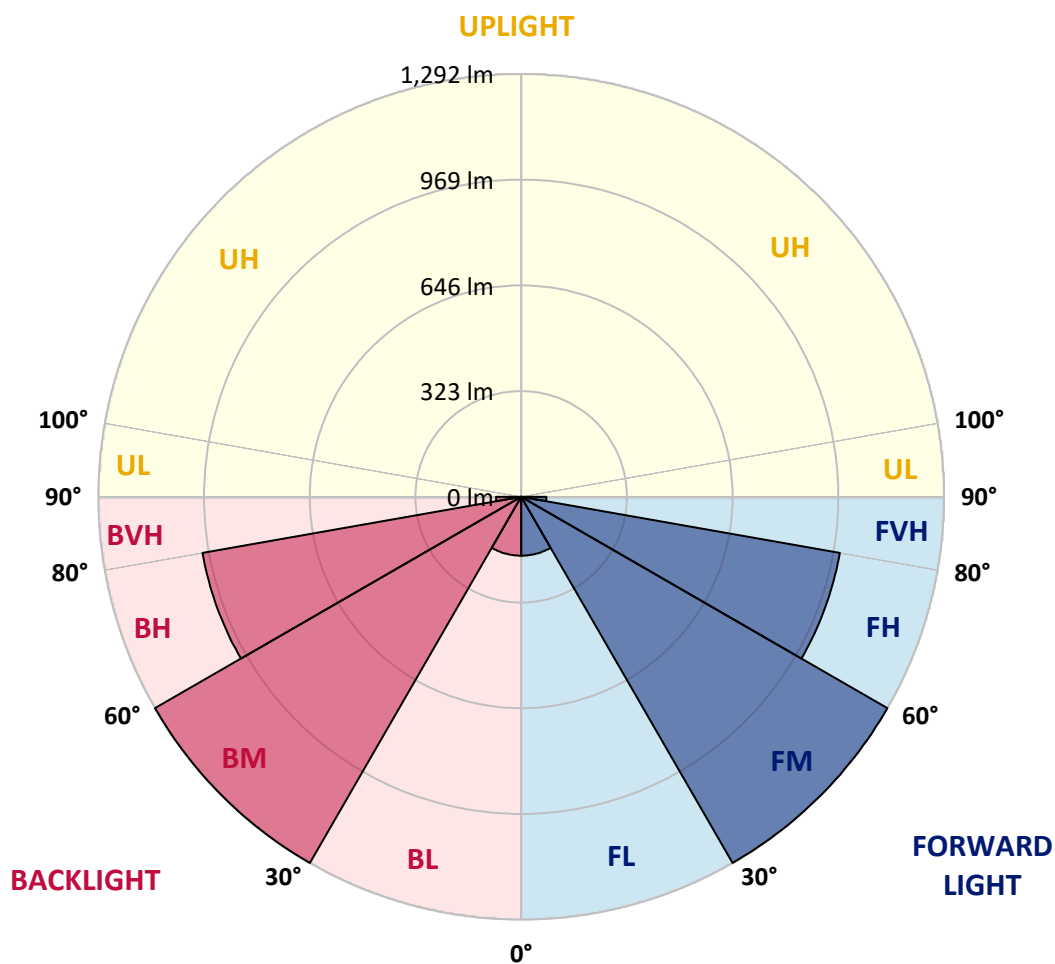
CATALOG NUMBER: TT-C4-LED-E1-RW-SG-LWR-LW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	180.0	3.5			
FM	(30°-60°)	1292.3	25.5			
FH	(60°-80°)	988.9	19.5			G1/1800
FVH	(80°-90°)	77.0	1.5			G1/100
BL	(0°-30°)	180.0	3.5	B1/500		
BM	(30°-60°)	1292.3	25.5	B2/2500		
BH	(60°-80°)	988.9	19.5	B2/1000		G2/1000
BVH	(80°-90°)	77.0	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



REPORT NUMBER: P198099

CATALOG NUMBER: TT-C4-LED-E1-RW-SG-LWR-LW-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5
2.5°	303.9	303.9	303.9	303.9	302.7	303.9	302.7	302.7	302.7	302.7	302.7
5°	307.4	308.6	307.4	307.4	307.4	307.4	307.4	307.4	306.2	306.2	307.4
7.5°	315.6	315.6	315.6	315.6	314.4	315.6	314.4	314.4	314.4	314.4	314.4
10°	327.3	327.3	327.3	327.3	326.2	326.2	326.2	325.0	325.0	325.0	325.0
12.5°	341.4	342.6	342.6	341.4	340.2	340.2	339.1	339.1	339.1	339.1	337.9
15°	362.5	361.3	361.3	359.0	359.0	356.7	357.8	356.7	355.5	354.3	355.5
17.5°	383.6	384.8	384.8	382.5	381.3	380.1	377.8	377.8	376.6	377.8	377.8
20°	416.5	416.5	414.1	411.8	408.3	407.1	404.8	404.8	402.4	404.8	404.8
22.5°	449.3	449.3	447.0	445.8	441.1	437.6	436.4	435.3	434.1	436.4	434.1
25°	490.4	490.4	488.1	483.4	478.7	477.5	474.0	474.0	475.1	476.3	471.6
27.5°	532.6	533.8	531.5	527.9	523.2	518.6	518.6	519.7	520.9	525.6	524.4
30°	584.3	583.1	579.6	574.9	572.5	569.0	570.2	574.9	579.6	584.3	584.3
32.5°	637.1	635.9	634.7	630.0	628.8	627.7	633.5	642.9	652.3	655.8	661.7
35°	693.4	693.4	692.2	688.7	691.0	696.9	706.3	723.9	737.9	754.4	754.4
37.5°	755.5	753.2	754.4	754.4	760.2	770.8	793.1	827.1	856.4	872.9	872.9
40°	820.1	816.6	817.7	823.6	834.1	860.0	898.7	945.6	992.5	1013.6	1020.7
42.5°	882.3	878.7	883.4	889.3	915.1	955.0	1012.5	1084.0	1150.9	1183.8	1182.6
45°	939.7	942.1	947.9	962.0	999.6	1058.2	1140.4	1236.6	1323.4	1362.1	1376.2
47.5°	997.2	998.4	1006.6	1031.2	1084.0	1158.0	1257.7	1385.6	1481.8	1527.5	1545.1
50°	1051.2	1053.5	1067.6	1102.8	1165.0	1254.2	1377.3	1513.4	1619.0	1673.0	1688.2
52.5°	1099.3	1101.6	1118.1	1161.5	1235.4	1338.6	1467.7	1607.3	1718.7	1780.9	1790.3
55°	1139.2	1141.5	1158.0	1203.7	1283.5	1390.2	1521.6	1660.1	1764.5	1819.6	1826.7
57.5°	1162.6	1163.8	1181.4	1228.3	1307.0	1406.7	1533.4	1667.1	1758.6	1807.9	1813.8
60°	1163.8	1166.2	1182.6	1224.8	1297.6	1389.1	1509.9	1629.6	1712.9	1757.5	1764.5
62.5°	1142.7	1143.9	1158.0	1190.8	1253.0	1332.8	1444.2	1552.2	1627.2	1670.6	1678.9
65°	1094.6	1094.6	1101.6	1126.3	1174.4	1242.4	1337.5	1437.2	1506.4	1546.3	1551.0
67.5°	1014.8	1014.8	1016.0	1032.4	1065.3	1119.2	1200.2	1283.5	1345.7	1385.6	1391.4
70°	912.8	911.6	902.2	912.8	933.9	979.6	1051.2	1114.5	1165.0	1196.7	1217.8
72.5°	783.7	779.0	772.0	769.6	790.7	830.6	889.3	932.7	960.9	994.9	997.2
75°	633.5	631.2	621.8	621.8	642.9	674.6	721.5	750.9	764.9	787.2	791.9
77.5°	472.8	471.6	475.1	476.3	488.1	522.1	549.1	570.2	566.7	580.7	585.4
80°	330.8	333.2	333.2	332.0	343.7	356.7	386.0	391.9	387.2	391.9	391.9
82.5°	210.0	208.8	206.5	210.0	219.4	229.9	241.7	242.9	246.4	242.9	245.2
85°	105.6	104.4	106.8	107.9	112.6	118.5	129.1	131.4	125.5	125.5	123.2
87.5°	36.4	38.7	36.4	37.5	37.5	43.4	42.2	42.2	42.2	42.2	44.6
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)