

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: P198100

Luminaire Tested: **TT-C4-LED-E1-RW-SG-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198100
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS
SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5038.1 lumens
Efficiency: N/A
Efficacy: 86.9 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

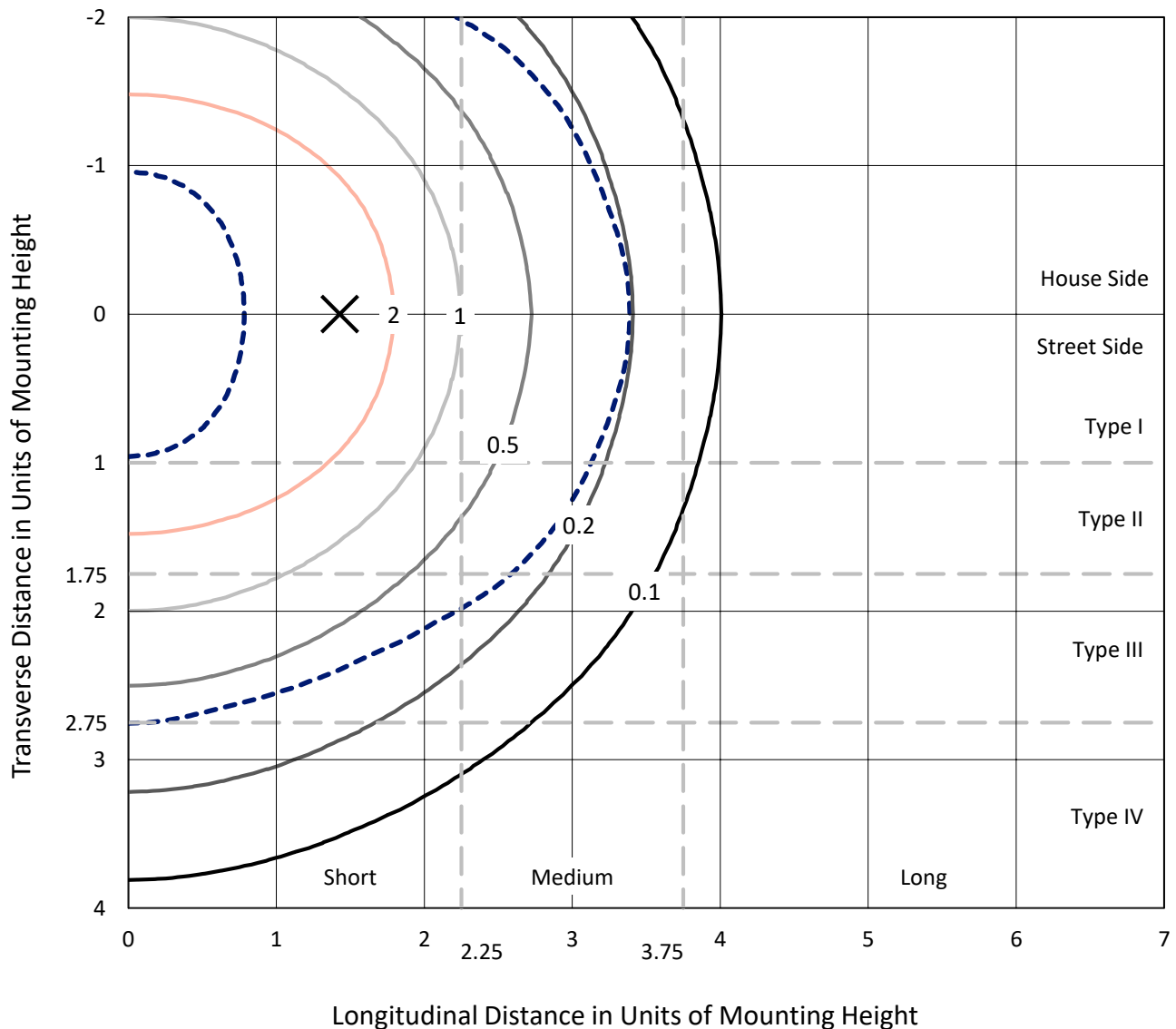


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

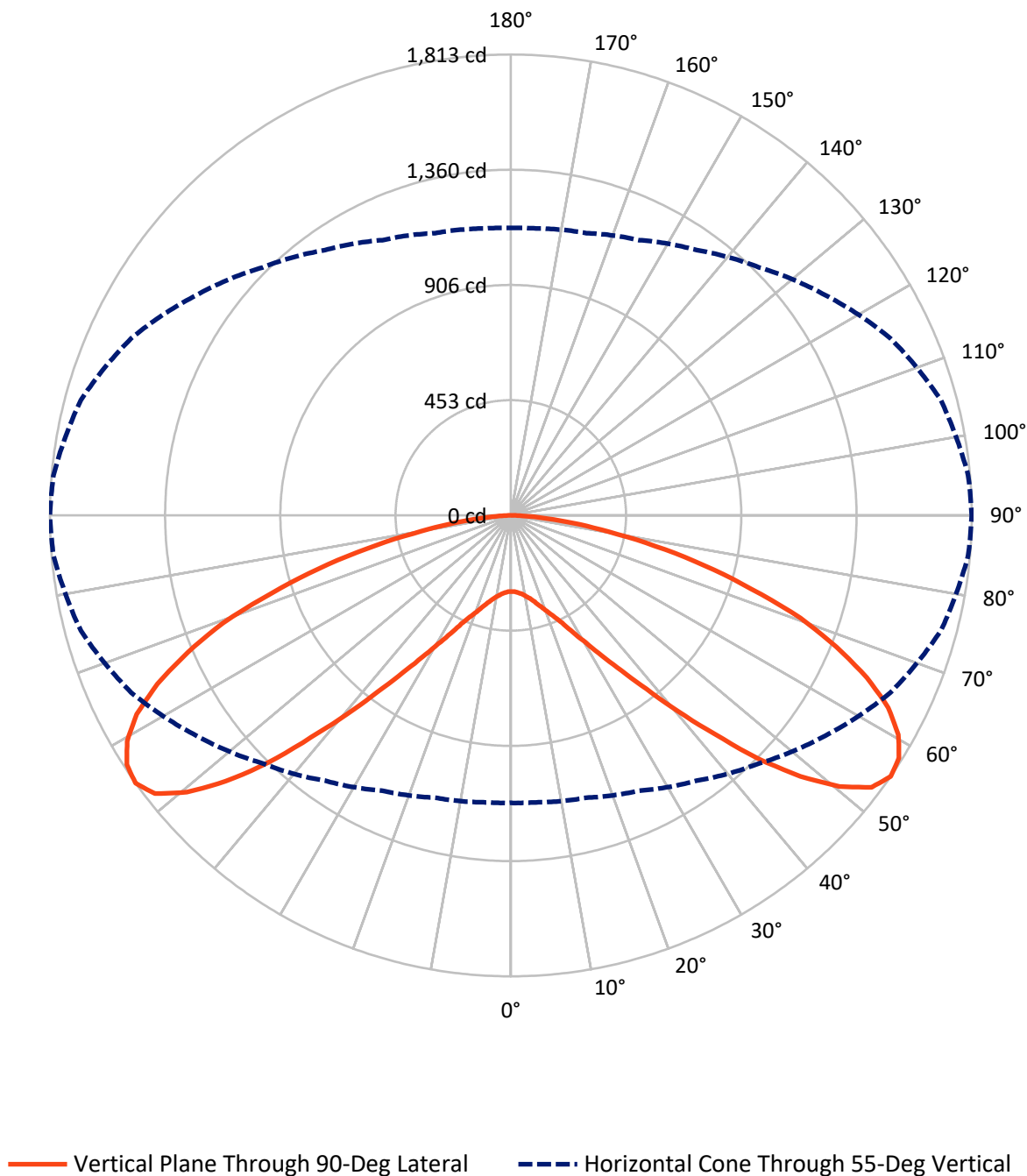


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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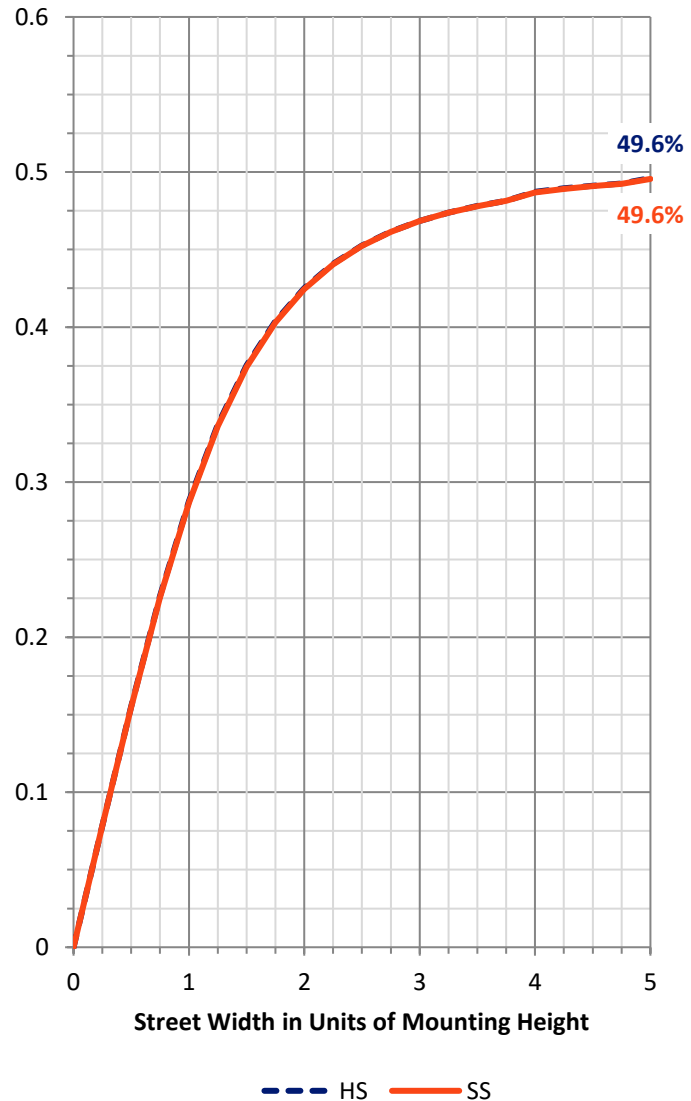
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2519.1	0.0	2519.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2519.1	0.0	2519.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5038.1	0.0	5038.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	0.6
10°-20°	102.9	2.0
20°-30°	224.7	4.5
30°-40°	451.8	9.0
40°-50°	853.8	16.9
50°-60°	1259.5	25.0
60°-70°	1240.5	24.6
70°-80°	722.4	14.3
80°-90°	152.9	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°	5038.1	100.0
0°-180°	5038.1	100.0

Coefficient of Utilization



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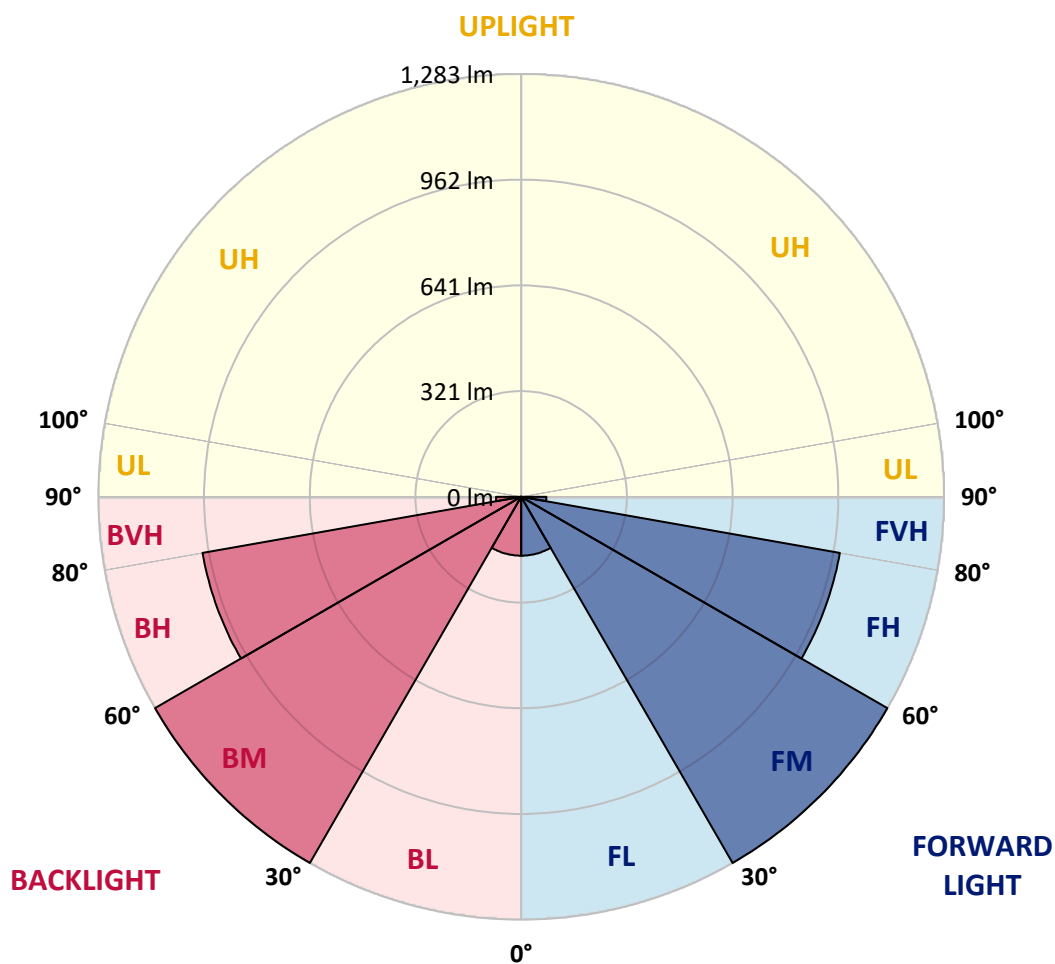
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	178.6	3.5			
FM	(30°-60°)	1282.5	25.5			
FH	(60°-80°)	981.4	19.5			G1/1800
FVH	(80°-90°)	76.5	1.5			G1/100
BL	(0°-30°)	178.6	3.5	B1/500		
BM	(30°-60°)	1282.5	25.5	B2/2500		
BH	(60°-80°)	981.4	19.5	B2/1000		G2/1000
BVH	(80°-90°)	76.5	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°	299.2	299.2	299.2	299.2	299.2	299.2	299.2	299.2	299.2	299.2	299.2
2.5°	301.6	301.6	301.6	301.6	300.4	301.6	300.4	300.4	300.4	300.4	300.4
5°	305.1	306.2	305.1	305.1	305.1	305.1	305.1	305.1	303.9	303.9	305.1
7.5°	313.2	313.2	313.2	313.2	312.0	313.2	312.0	312.0	312.0	312.0	312.0
10°	324.9	324.9	324.9	324.9	323.7	323.7	323.7	322.5	322.5	322.5	322.5
12.5°	338.8	340.0	340.0	338.8	337.7	337.7	336.5	336.5	336.5	336.5	335.3
15°	359.8	358.6	358.6	356.3	356.3	354.0	355.1	354.0	352.8	351.6	352.8
17.5°	380.7	381.9	381.9	379.6	378.4	377.2	374.9	374.9	373.8	374.9	374.9
20°	413.3	413.3	411.0	408.7	405.2	404.0	401.7	401.7	399.4	401.7	401.7
22.5°	445.9	445.9	443.6	442.5	437.8	434.3	433.1	432.0	430.8	433.1	430.8
25°	486.7	486.7	484.4	479.7	475.1	473.9	470.4	470.4	471.6	472.7	468.1
27.5°	528.6	529.8	527.4	524.0	519.3	514.6	514.6	515.8	517.0	521.6	520.5
30°	579.8	578.7	575.2	570.5	568.2	564.7	565.9	570.5	575.2	579.8	579.8
32.5°	632.2	631.1	629.9	625.3	624.1	622.9	628.7	638.1	647.4	650.9	656.7
35°	688.1	688.1	687.0	683.5	685.8	691.6	700.9	718.4	732.4	748.7	748.7
37.5°	749.8	747.5	748.7	748.7	754.5	765.0	787.1	820.9	850.0	866.3	866.3
40°	813.9	810.4	811.5	817.4	827.9	853.5	891.9	938.5	985.0	1006.0	1013.0
42.5°	875.6	872.1	876.8	882.6	908.2	947.8	1004.8	1075.9	1142.2	1174.8	1173.7
45°	932.6	935.0	940.8	954.8	992.0	1050.2	1131.7	1227.2	1313.4	1351.8	1365.8
47.5°	989.7	990.9	999.0	1023.5	1075.9	1149.2	1248.2	1375.1	1470.6	1516.0	1533.4
50°	1043.3	1045.6	1059.6	1094.5	1156.2	1244.7	1366.9	1502.0	1606.8	1660.4	1675.5
52.5°	1091.0	1093.3	1109.6	1152.7	1226.1	1328.5	1456.6	1595.2	1705.8	1767.5	1776.8
55°	1130.6	1132.9	1149.2	1194.6	1273.8	1379.8	1510.2	1647.6	1751.2	1805.9	1812.9
57.5°	1153.9	1155.0	1172.5	1219.1	1297.1	1396.1	1521.8	1654.5	1745.4	1794.3	1800.1
60°	1155.0	1157.4	1173.7	1215.6	1287.8	1378.6	1498.5	1617.3	1699.9	1744.2	1751.2
62.5°	1134.1	1135.2	1149.2	1181.8	1243.5	1322.7	1433.3	1540.4	1614.9	1658.0	1666.2
65°	1086.3	1086.3	1093.3	1117.8	1165.5	1233.0	1327.4	1426.3	1495.0	1534.6	1539.3
67.5°	1007.2	1007.2	1008.3	1024.6	1057.2	1110.8	1191.1	1273.8	1335.5	1375.1	1380.9
70°	905.9	904.7	895.4	905.9	926.8	972.2	1043.3	1106.1	1156.2	1187.6	1208.6
72.5°	777.8	773.1	766.1	763.8	784.8	824.4	882.6	925.7	953.6	987.4	989.7
75°	628.7	626.4	617.1	617.1	638.1	669.5	716.1	745.2	759.2	781.3	785.9
77.5°	469.2	468.1	471.6	472.7	484.4	518.1	544.9	565.9	562.4	576.4	581.0
80°	328.3	330.7	330.7	329.5	341.2	354.0	383.1	388.9	384.2	388.9	388.9
82.5°	208.4	207.3	204.9	208.4	217.7	228.2	239.9	241.0	244.5	241.0	243.3
85°	104.8	103.6	106.0	107.1	111.8	117.6	128.1	130.4	124.6	124.6	122.3
87.5°	36.1	38.4	36.1	37.3	37.3	43.1	41.9	41.9	41.9	41.9	44.2
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)