

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: P198028

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34697)
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-CG-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR 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: 4974.1 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-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



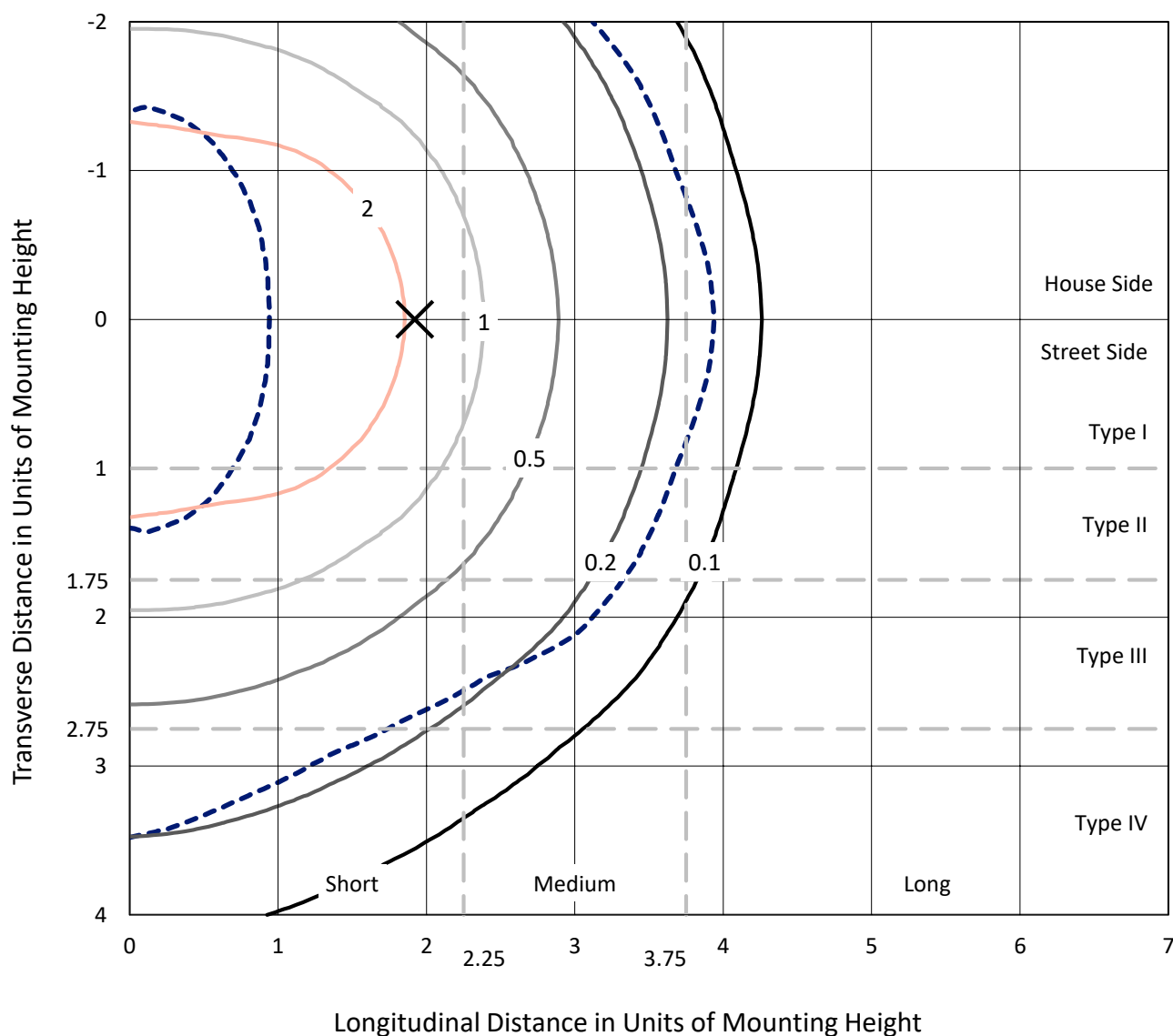
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

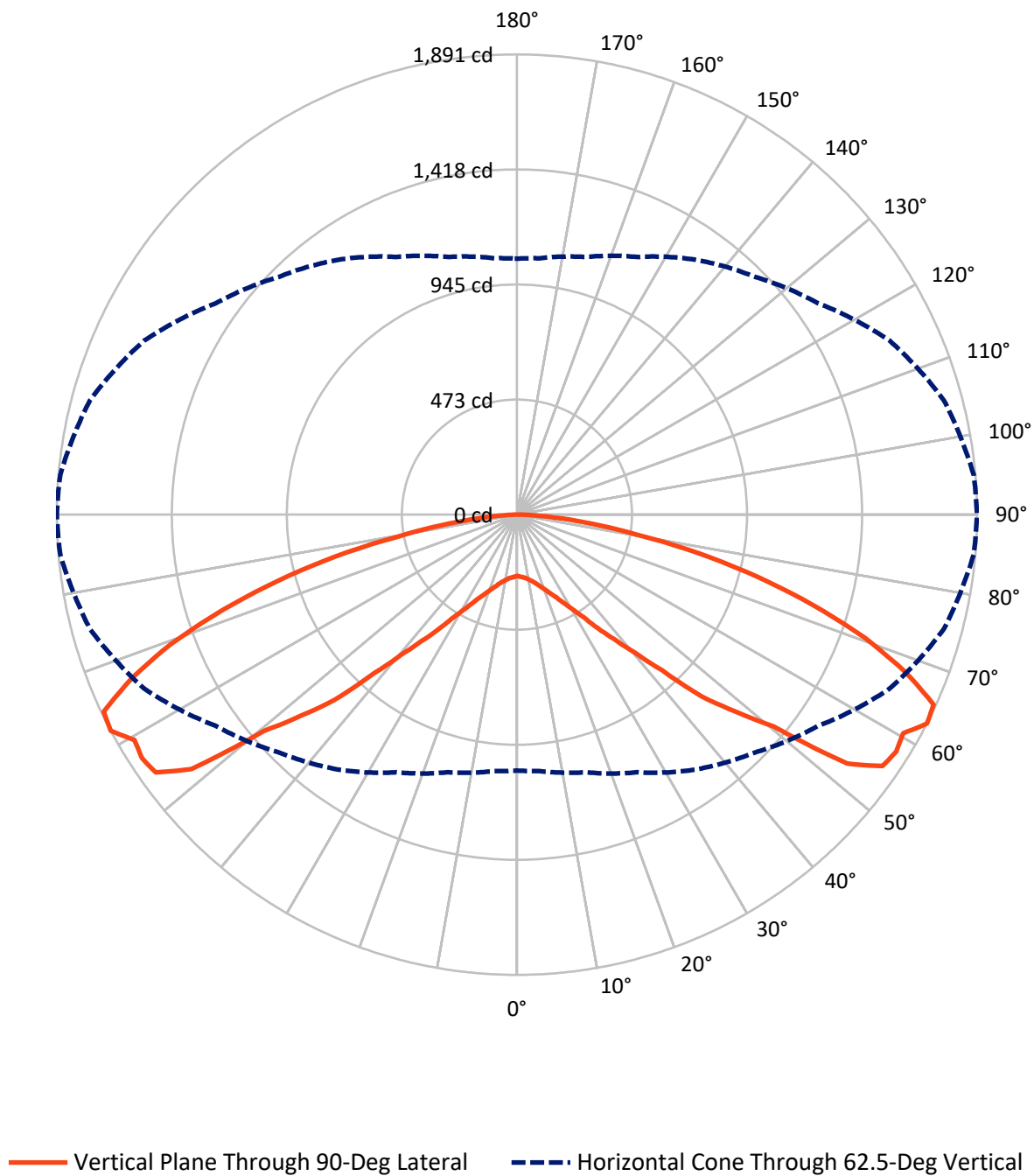


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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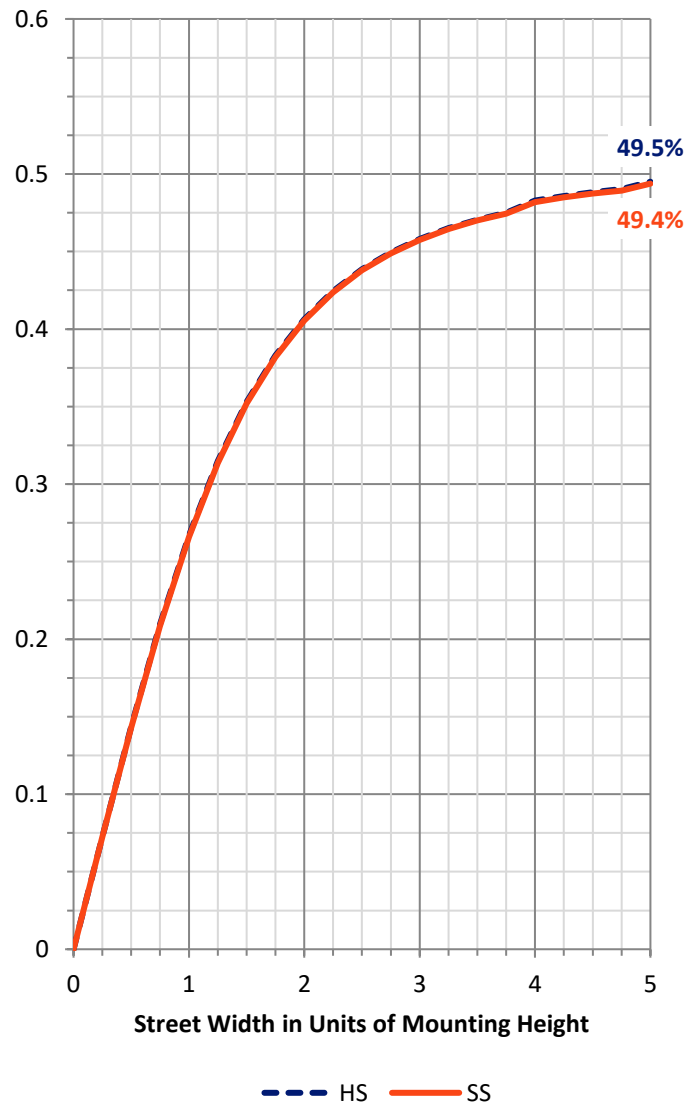
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2487.1	0.0	2487.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2487.1	0.0	2487.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	4974.1	0.0	4974.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.1	0.5
10°-20°	85.6	1.7
20°-30°	182.9	3.7
30°-40°	355.7	7.2
40°-50°	670.8	13.5
50°-60°	1146.2	23.0
60°-70°	1380.3	27.7
70°-80°	928.9	18.7
80°-90°	198.7	4.0
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°	4974.1	100.0
0°-180°	4974.1	100.0

Coefficient of Utilization



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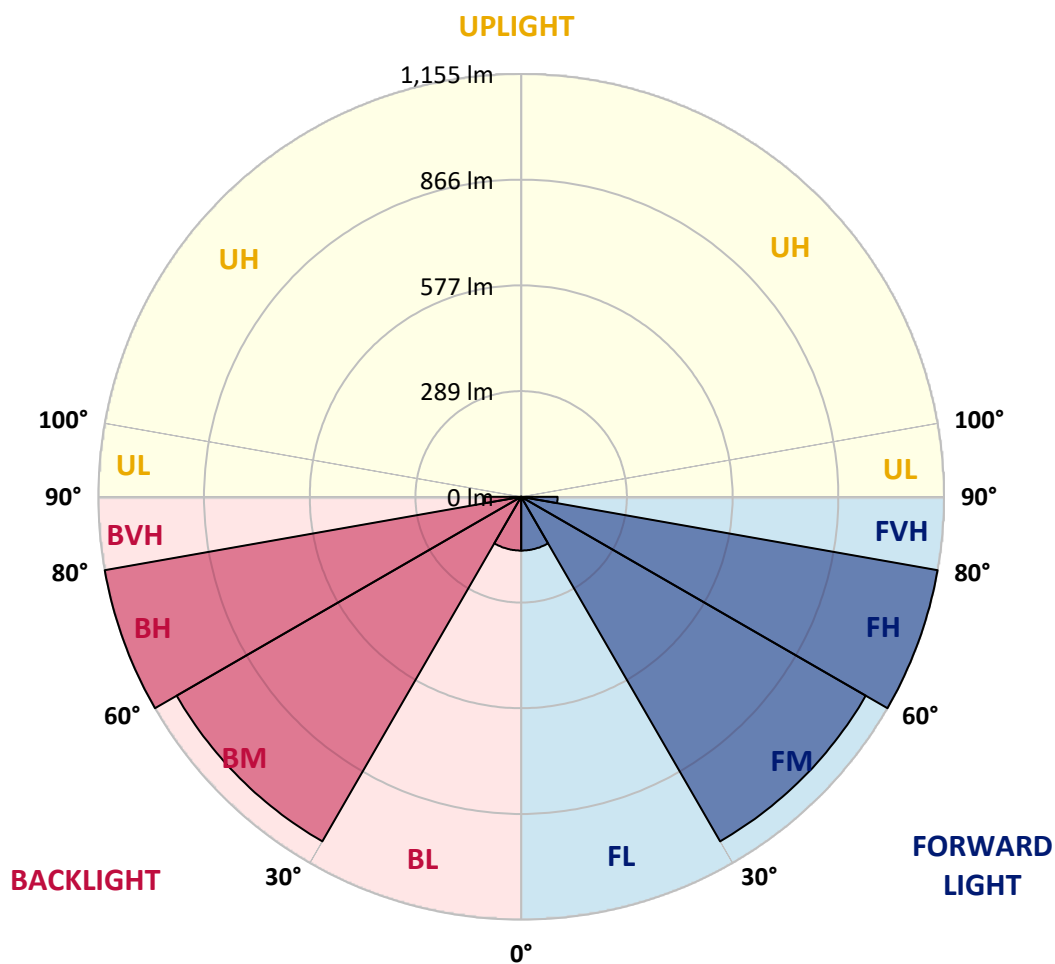
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	146.8	3.0			
FM	(30°-60°)	1086.3	21.8			
FH	(60°-80°)	1154.6	23.2			G1/1800
FVH	(80°-90°)	99.3	2.0			G1/100
BL	(0°-30°)	146.8	3.0	B1/500		
BM	(30°-60°)	1086.3	21.8	B2/2500		
BH	(60°-80°)	1154.6	23.2	B3/2500		G3/2500
BVH	(80°-90°)	99.3	2.0			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	251.5	251.5	251.5	251.5	251.5	251.5	251.5	251.5	251.5	251.5	251.5
2.5°	253.8	253.8	253.8	253.8	253.8	253.8	255.0	255.0	255.0	255.0	255.0
5°	257.3	257.3	258.5	258.5	259.6	259.6	259.6	259.6	258.5	258.5	258.5
7.5°	263.1	263.1	264.3	265.5	265.5	264.3	264.3	263.1	263.1	263.1	263.1
10°	272.5	272.5	273.6	273.6	272.5	272.5	272.5	271.3	271.3	271.3	271.3
12.5°	282.9	284.1	285.3	284.1	282.9	281.8	281.8	280.6	280.6	280.6	280.6
15°	298.1	300.4	299.2	299.2	298.1	295.7	294.6	293.4	293.4	293.4	293.4
17.5°	321.4	321.4	317.9	315.5	313.2	312.0	310.9	309.7	309.7	309.7	309.7
20°	345.8	344.6	341.2	337.7	334.2	333.0	329.5	328.3	329.5	328.3	328.3
22.5°	374.9	373.8	369.1	365.6	360.9	356.3	355.1	351.6	350.5	349.3	350.5
25°	404.0	405.2	401.7	398.2	391.2	386.6	381.9	379.6	377.2	376.1	376.1
27.5°	437.8	440.1	437.8	430.8	423.8	420.3	413.3	411.0	409.9	411.0	411.0
30°	473.9	475.1	471.6	468.1	461.1	452.9	448.3	449.4	449.4	452.9	451.8
32.5°	518.1	517.0	512.3	510.0	503.0	496.0	493.7	494.8	499.5	501.8	501.8
35°	567.0	563.5	558.9	554.2	548.4	543.7	544.9	554.2	568.2	571.7	574.0
37.5°	615.9	610.1	610.1	603.1	598.5	602.0	609.0	626.4	636.9	653.2	649.7
40°	661.3	662.5	660.2	654.4	653.2	664.8	680.0	702.1	728.9	745.2	744.0
42.5°	703.3	713.7	706.8	707.9	713.7	732.4	756.8	799.9	853.5	874.4	874.4
45°	749.8	762.6	756.8	760.3	776.6	805.7	858.1	943.1	1016.5	1066.5	1066.5
47.5°	797.6	809.2	806.9	813.9	843.0	894.2	974.6	1080.5	1153.9	1202.8	1209.8
50°	858.1	853.5	854.6	872.1	922.2	996.7	1099.1	1203.9	1325.0	1354.1	1368.1
52.5°	910.5	896.5	904.7	933.8	1006.0	1093.3	1220.2	1405.4	1573.0	1689.5	1698.8
55°	953.6	943.1	959.4	1000.2	1093.3	1208.6	1373.9	1601.0	1739.5	1810.6	1823.4
57.5°	990.9	986.2	1013.0	1065.4	1184.1	1325.0	1492.7	1676.7	1773.3	1828.0	1837.3
60°	1024.6	1028.1	1057.2	1127.1	1255.2	1384.4	1519.5	1674.3	1771.0	1814.1	1823.4
62.5°	1051.4	1057.2	1095.7	1167.8	1278.5	1382.1	1512.5	1690.6	1816.4	1883.9	1890.9
65°	1068.9	1074.7	1117.8	1167.8	1271.5	1371.6	1555.6	1706.9	1800.1	1868.8	1881.6
67.5°	1071.2	1079.3	1105.0	1146.9	1234.2	1322.7	1481.0	1590.5	1665.0	1706.9	1718.6
70°	1057.2	1054.9	1064.2	1081.7	1134.1	1194.6	1328.5	1410.0	1463.6	1506.7	1517.1
72.5°	1003.7	1000.2	978.1	958.3	978.1	1025.8	1141.1	1195.8	1231.9	1266.8	1273.8
75°	901.2	884.9	830.2	802.2	796.4	838.3	926.8	961.8	975.7	1015.3	1020.0
77.5°	720.7	713.7	667.2	618.3	613.6	639.2	706.8	721.9	710.3	753.3	766.1
80°	526.3	517.0	472.7	436.6	427.3	444.8	484.4	487.9	479.7	500.7	500.7
82.5°	336.5	327.2	308.6	281.8	262.0	272.5	302.7	302.7	302.7	308.6	312.0
85°	173.5	170.0	156.0	143.2	136.2	138.6	149.0	150.2	156.0	159.5	154.9
87.5°	48.9	51.2	48.9	43.1	41.9	40.8	45.4	46.6	50.1	52.4	54.7
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)