

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: P198019

Luminaire Tested: **TT-C2-LED-E1-RW-CG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198019
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-C2-LED-E1-RW-CG-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS
SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3078 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 34
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

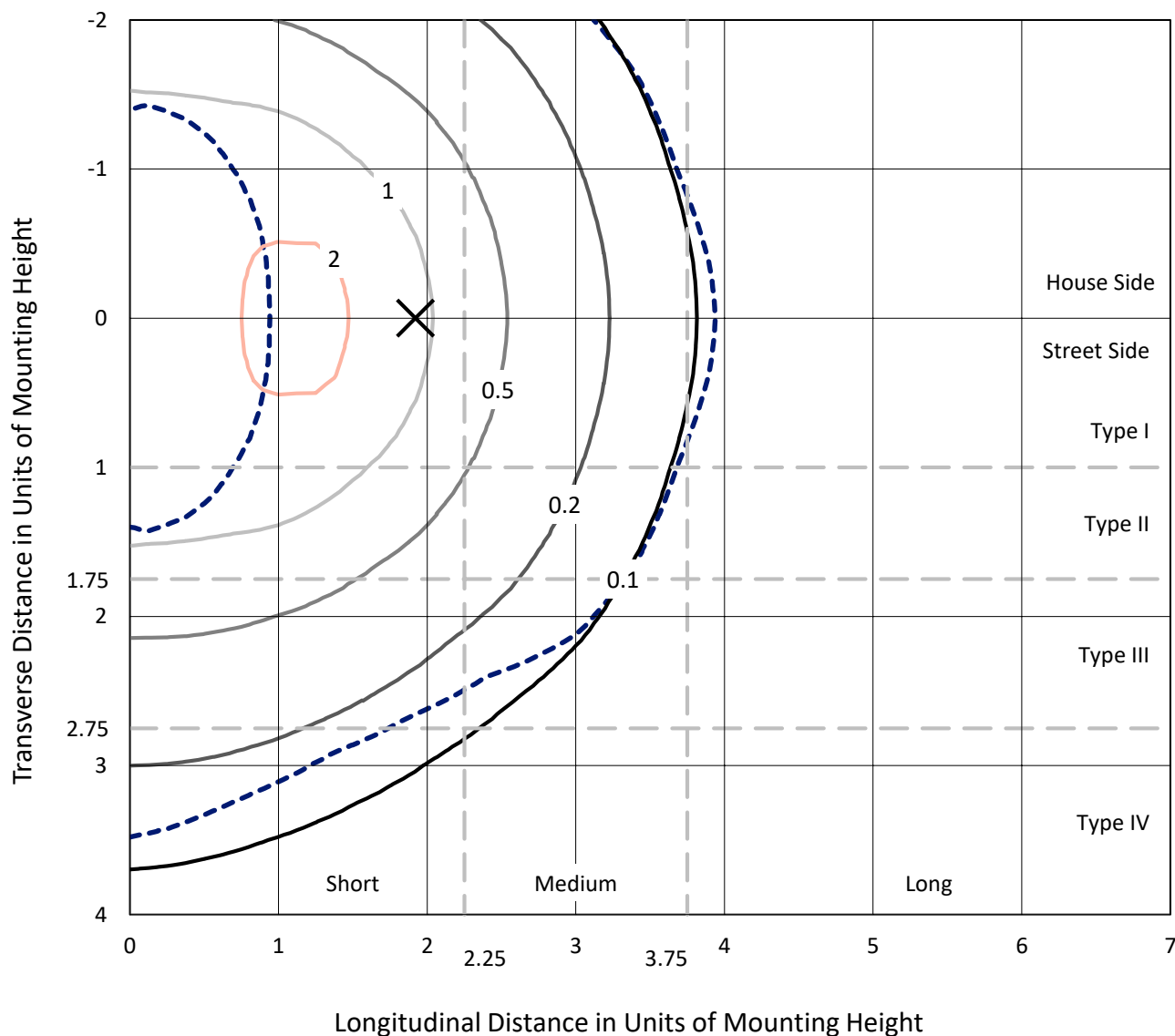


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

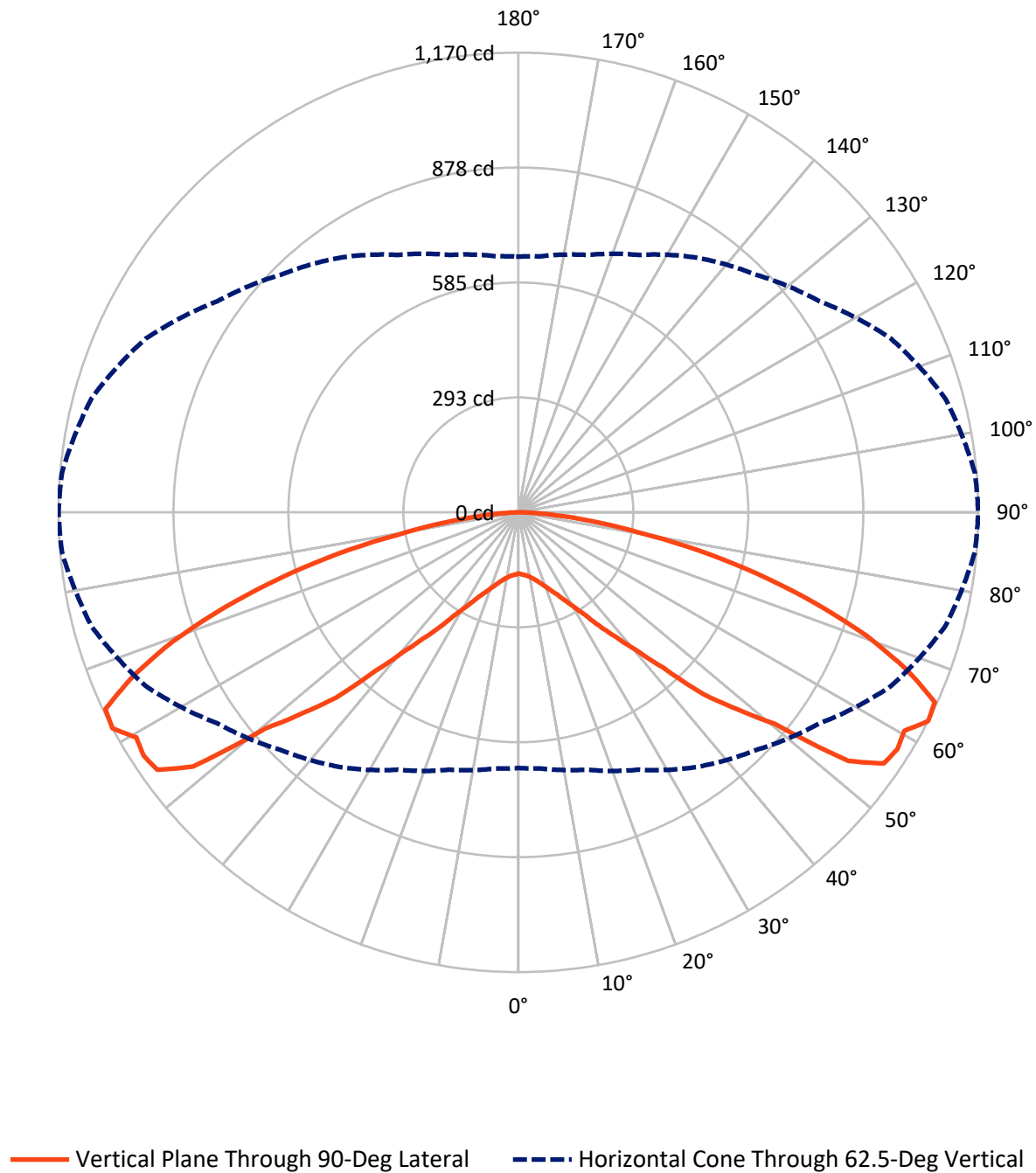


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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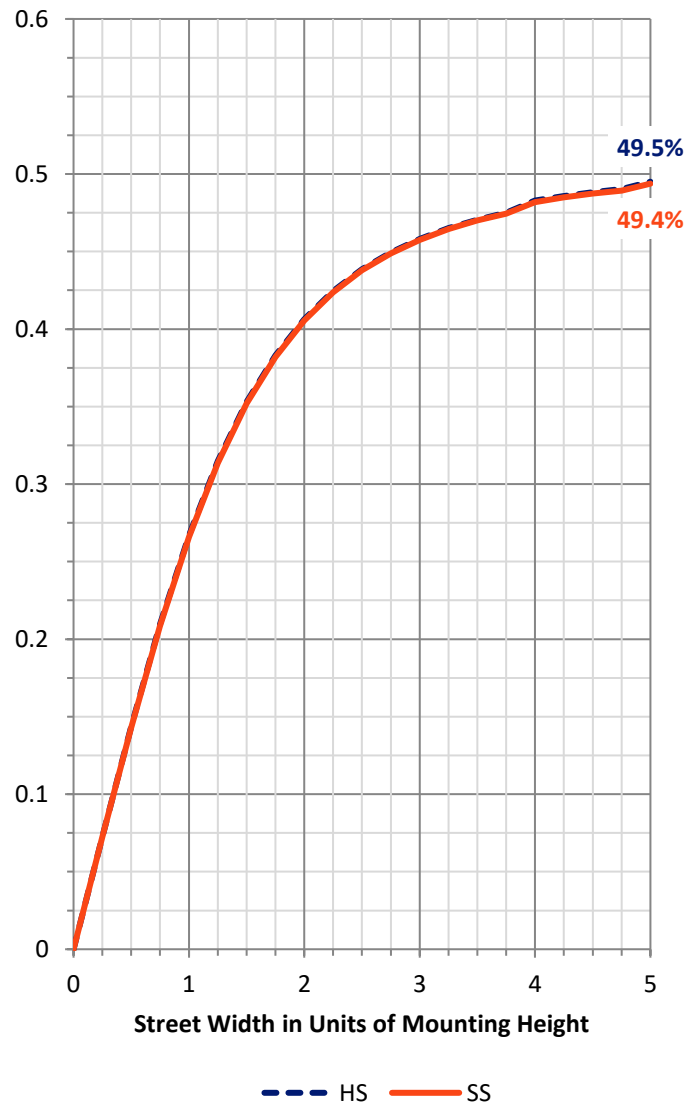
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1539.0	0.0	1539.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1539.0	0.0	1539.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3078.0	0.0	3078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.5	0.5
10°-20°	53.0	1.7
20°-30°	113.2	3.7
30°-40°	220.1	7.2
40°-50°	415.1	13.5
50°-60°	709.3	23.0
60°-70°	854.1	27.7
70°-80°	574.8	18.7
80°-90°	122.9	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°	3078.0	100.0
0°-180°	3078.0	100.0

Coefficient of Utilization



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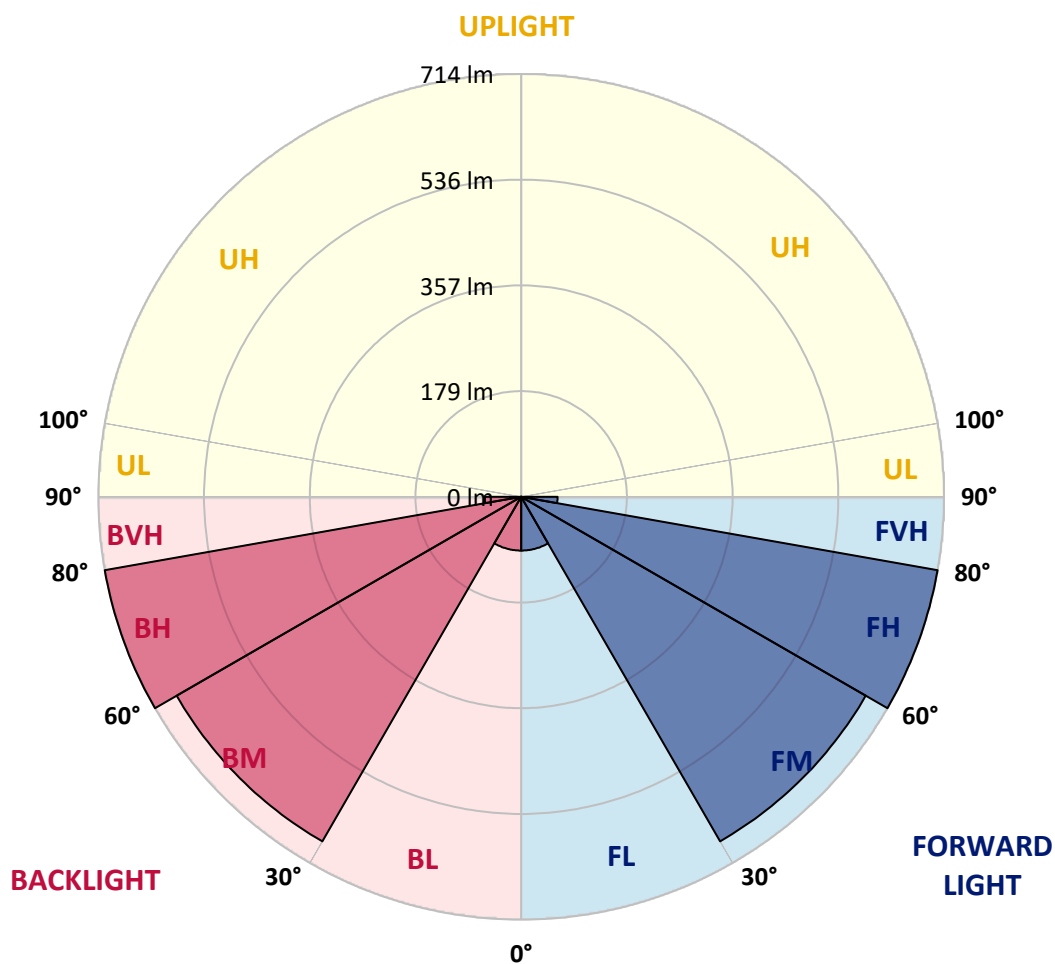
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	90.8	3.0			
FM	(30°-60°)	672.2	21.8			
FH	(60°-80°)	714.5	23.2			G1/1800
FVH	(80°-90°)	61.5	2.0			G1/100
BL	(0°-30°)	90.8	3.0	B0/110		
BM	(30°-60°)	672.2	21.8	B1/1000		
BH	(60°-80°)	714.5	23.2	B2/1000		G2/1000
BVH	(80°-90°)	61.5	2.0			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	155.6	155.6	155.6	155.6	155.6	155.6	155.6	155.6	155.6	155.6	155.6
2.5°	157.1	157.1	157.1	157.1	157.1	157.1	157.8	157.8	157.8	157.8	157.8
5°	159.2	159.2	160.0	160.0	160.7	160.7	160.7	160.7	160.0	160.0	160.0
7.5°	162.8	162.8	163.6	164.3	164.3	163.6	163.6	162.8	162.8	162.8	162.8
10°	168.6	168.6	169.3	169.3	168.6	168.6	168.6	167.9	167.9	167.9	167.9
12.5°	175.1	175.8	176.5	175.8	175.1	174.4	174.4	173.6	173.6	173.6	173.6
15°	184.4	185.9	185.2	185.2	184.4	183.0	182.3	181.6	181.6	181.6	181.6
17.5°	198.9	198.9	196.7	195.3	193.8	193.1	192.4	191.7	191.7	191.7	191.7
20°	214.0	213.3	211.1	208.9	206.8	206.1	203.9	203.2	203.9	203.2	203.2
22.5°	232.0	231.3	228.4	226.2	223.4	220.5	219.8	217.6	216.9	216.2	216.9
25°	250.0	250.7	248.6	246.4	242.1	239.2	236.3	234.9	233.4	232.7	232.7
27.5°	270.9	272.3	270.9	266.6	262.3	260.1	255.8	254.3	253.6	254.3	254.3
30°	293.2	294.0	291.8	289.6	285.3	280.3	277.4	278.1	278.1	280.3	279.6
32.5°	320.6	319.9	317.0	315.6	311.3	306.9	305.5	306.2	309.1	310.5	310.5
35°	350.9	348.7	345.8	343.0	339.4	336.5	337.2	343.0	351.6	353.8	355.2
37.5°	381.1	377.5	377.5	373.2	370.3	372.5	376.8	387.6	394.1	404.2	402.0
40°	409.2	410.0	408.5	404.9	404.2	411.4	420.8	434.5	451.0	461.1	460.4
42.5°	435.2	441.7	437.3	438.1	441.7	453.2	468.3	495.0	528.1	541.1	541.1
45°	464.0	471.9	468.3	470.5	480.6	498.6	531.0	583.6	629.0	660.0	660.0
47.5°	493.5	500.7	499.3	503.6	521.6	553.3	603.1	668.6	714.0	744.3	748.6
50°	531.0	528.1	528.8	539.7	570.6	616.7	680.2	745.0	819.9	837.9	846.6
52.5°	563.4	554.8	559.8	577.8	622.5	676.6	755.1	869.6	973.4	1045.4	1051.2
55°	590.1	583.6	593.7	618.9	676.6	747.9	850.2	990.7	1076.4	1120.4	1128.3
57.5°	613.1	610.3	626.8	659.3	732.8	819.9	923.7	1037.5	1097.3	1131.2	1137.0
60°	634.0	636.2	654.2	697.4	776.7	856.7	940.3	1036.1	1095.9	1122.5	1128.3
62.5°	650.6	654.2	678.0	722.7	791.1	855.2	935.9	1046.2	1124.0	1165.8	1170.1
65°	661.4	665.0	691.7	722.7	786.8	848.8	962.6	1056.3	1113.9	1156.4	1164.3
67.5°	662.9	667.9	683.8	709.7	763.7	818.5	916.5	984.2	1030.3	1056.3	1063.5
70°	654.2	652.8	658.5	669.3	701.8	739.2	822.1	872.5	905.7	932.3	938.8
72.5°	621.1	618.9	605.2	593.0	605.2	634.8	706.1	740.0	762.3	783.9	788.2
75°	557.7	547.6	513.7	496.4	492.8	518.8	573.5	595.1	603.8	628.3	631.2
77.5°	446.0	441.7	412.8	382.6	379.7	395.6	437.3	446.7	439.5	466.2	474.1
80°	325.7	319.9	292.5	270.2	264.4	275.2	299.7	301.9	296.8	309.8	309.8
82.5°	208.2	202.5	190.9	174.4	162.1	168.6	187.3	187.3	187.3	190.9	193.1
85°	107.4	105.2	96.5	88.6	84.3	85.7	92.2	92.9	96.5	98.7	95.8
87.5°	30.3	31.7	30.3	26.7	25.9	25.2	28.1	28.8	31.0	32.4	33.9
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)