

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: P197946

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34693)
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-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3448 lumens
Efficiency: N/A
Efficacy: 101.4 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



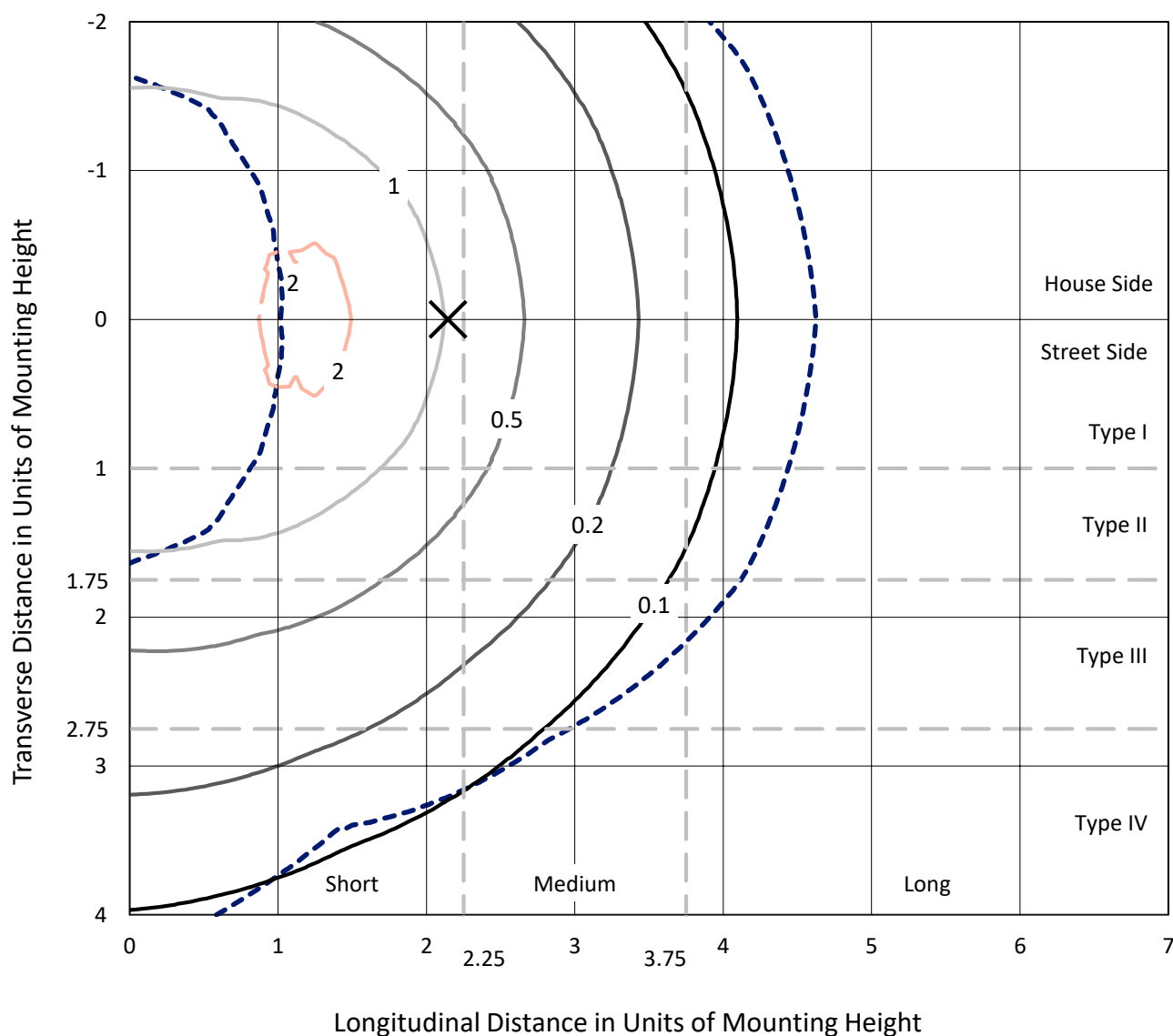
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

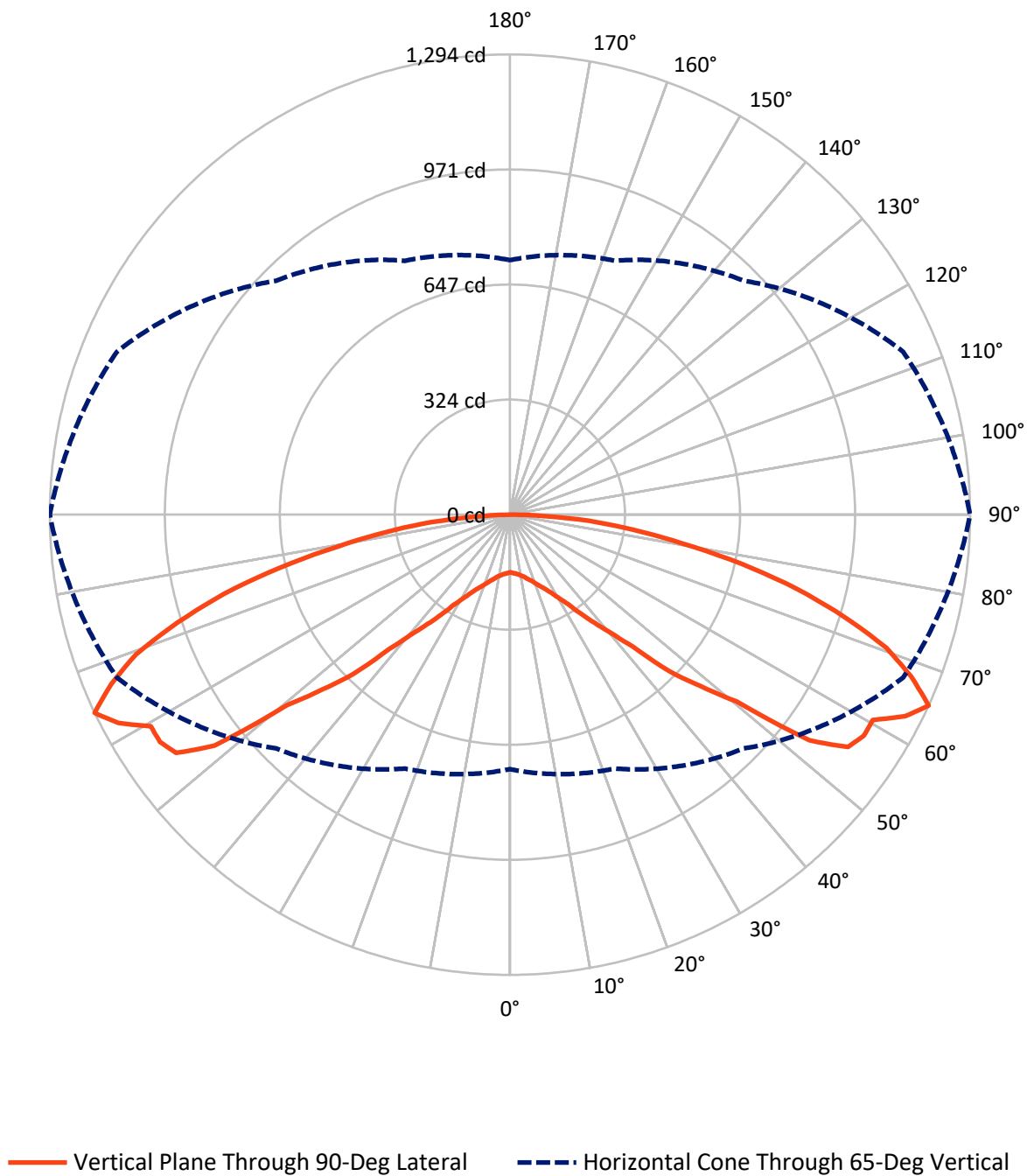


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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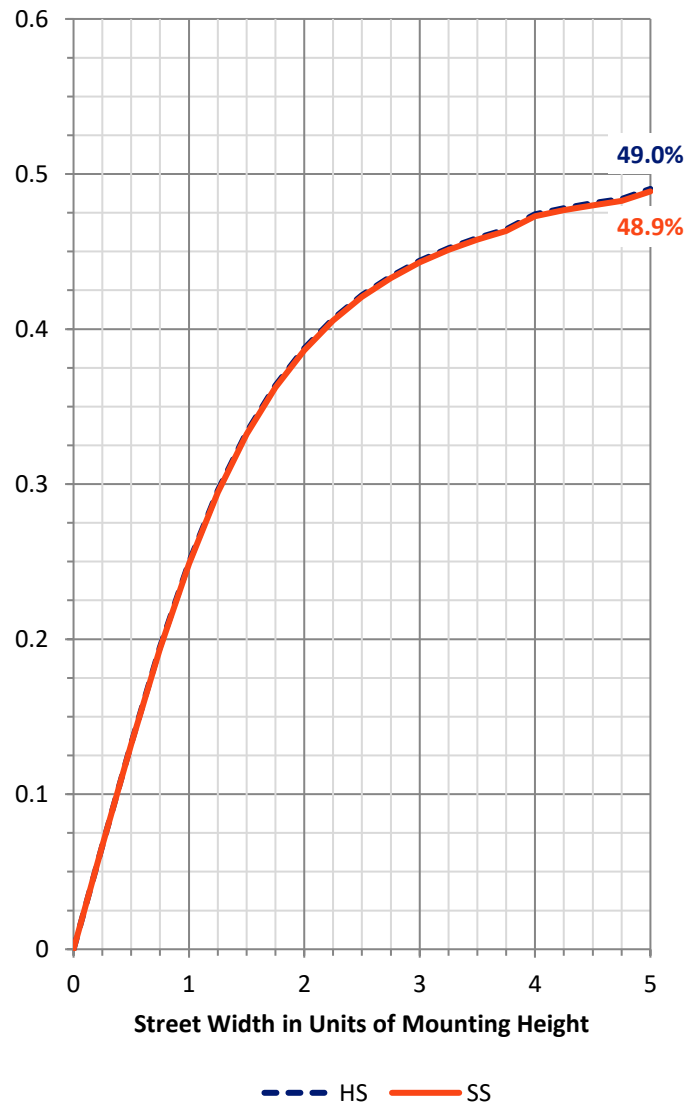
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1724.0	0.0	1724.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1724.0	0.0	1724.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3448.0	0.0	3448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.2	0.5
10°-20°	55.0	1.6
20°-30°	115.6	3.4
30°-40°	219.7	6.4
40°-50°	408.4	11.8
50°-60°	723.8	21.0
60°-70°	940.1	27.3
70°-80°	748.8	21.7
80°-90°	220.3	6.4
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°	3448.0	100.0
0°-180°	3448.0	100.0

Coefficient of Utilization



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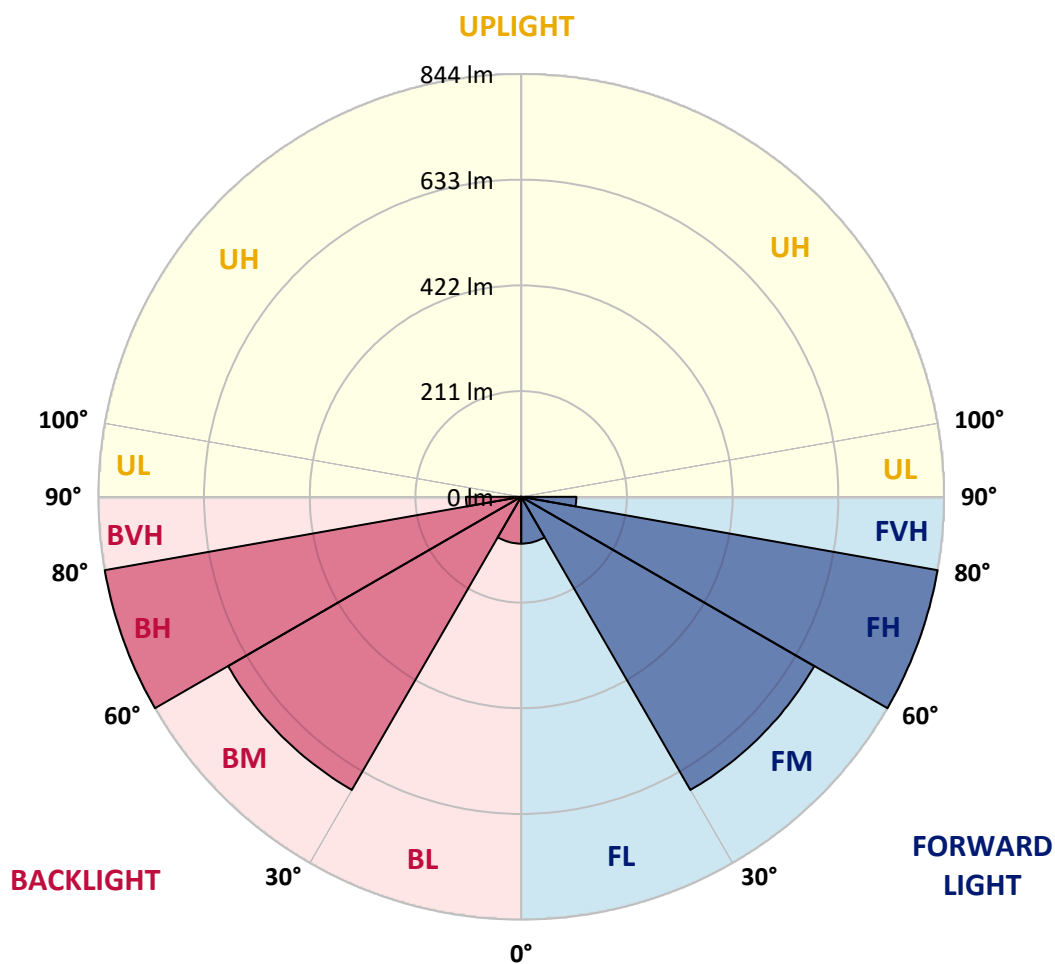
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	93.4	2.7			
FM	(30°-60°)	676.0	19.6			
FH	(60°-80°)	844.4	24.5			G1/1800
FVH	(80°-90°)	110.1	3.2			G2/225
BL	(0°-30°)	93.4	2.7	B0/110		
BM	(30°-60°)	676.0	19.6	B1/1000		
BH	(60°-80°)	844.4	24.5	B2/1000		G2/1000
BVH	(80°-90°)	110.1	3.2			G2/225
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°	22.5°	45°	67.5°	90°
0°	162.0	162.0	162.0	162.0	162.0
2.5°	163.5	163.5	164.3	164.3	164.3
5°	166.6	166.6	167.3	167.3	166.6
7.5°	170.4	171.9	171.1	169.6	169.6
10°	176.4	177.2	175.7	174.9	174.2
12.5°	184.0	184.8	181.8	181.0	179.5
15°	194.7	193.9	190.9	187.9	187.9
17.5°	209.1	204.6	199.3	197.0	195.5
20°	225.9	219.8	212.9	207.6	206.9
22.5°	244.9	236.5	227.4	219.8	219.0
25°	263.1	256.3	244.9	235.0	232.0
27.5°	282.9	277.6	263.1	251.7	249.5
30°	305.7	301.2	284.4	273.8	273.0
32.5°	332.4	326.3	308.0	300.4	299.7
35°	364.3	352.9	336.9	331.6	340.7
37.5°	394.7	381.8	368.9	378.0	385.6
40°	421.3	413.0	406.9	425.9	436.5
42.5°	447.2	442.6	447.2	475.3	508.0
45°	474.6	476.1	492.8	569.6	628.2
47.5°	506.5	507.3	546.8	664.7	720.2
50°	541.5	540.7	610.7	736.2	825.2
52.5°	575.7	578.8	674.6	889.8	1054.9
55°	606.1	622.9	761.3	1044.2	1153.7
57.5°	632.8	664.7	842.7	1089.8	1173.5
60°	661.7	714.9	899.7	1099.0	1172.7
62.5°	689.8	754.5	911.9	1139.3	1248.0
65°	715.7	772.7	930.1	1197.1	1294.4
67.5°	737.0	781.8	930.1	1146.9	1217.6
70°	754.5	770.4	876.1	1056.4	1123.3
72.5°	750.6	723.3	787.2	945.3	984.1
75°	714.9	640.4	693.6	795.5	834.3
77.5°	625.2	536.2	565.1	641.1	666.2
80°	495.1	418.3	435.0	483.7	491.3
82.5°	349.1	300.4	306.5	343.8	349.1
85°	205.3	184.8	178.7	212.2	222.8
87.5°	60.8	53.2	52.5	63.9	70.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)