

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: P197954

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197954
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-C4-LED-E1-RW-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5369.7 lumens
Efficiency: N/A
Efficacy: 92.6 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

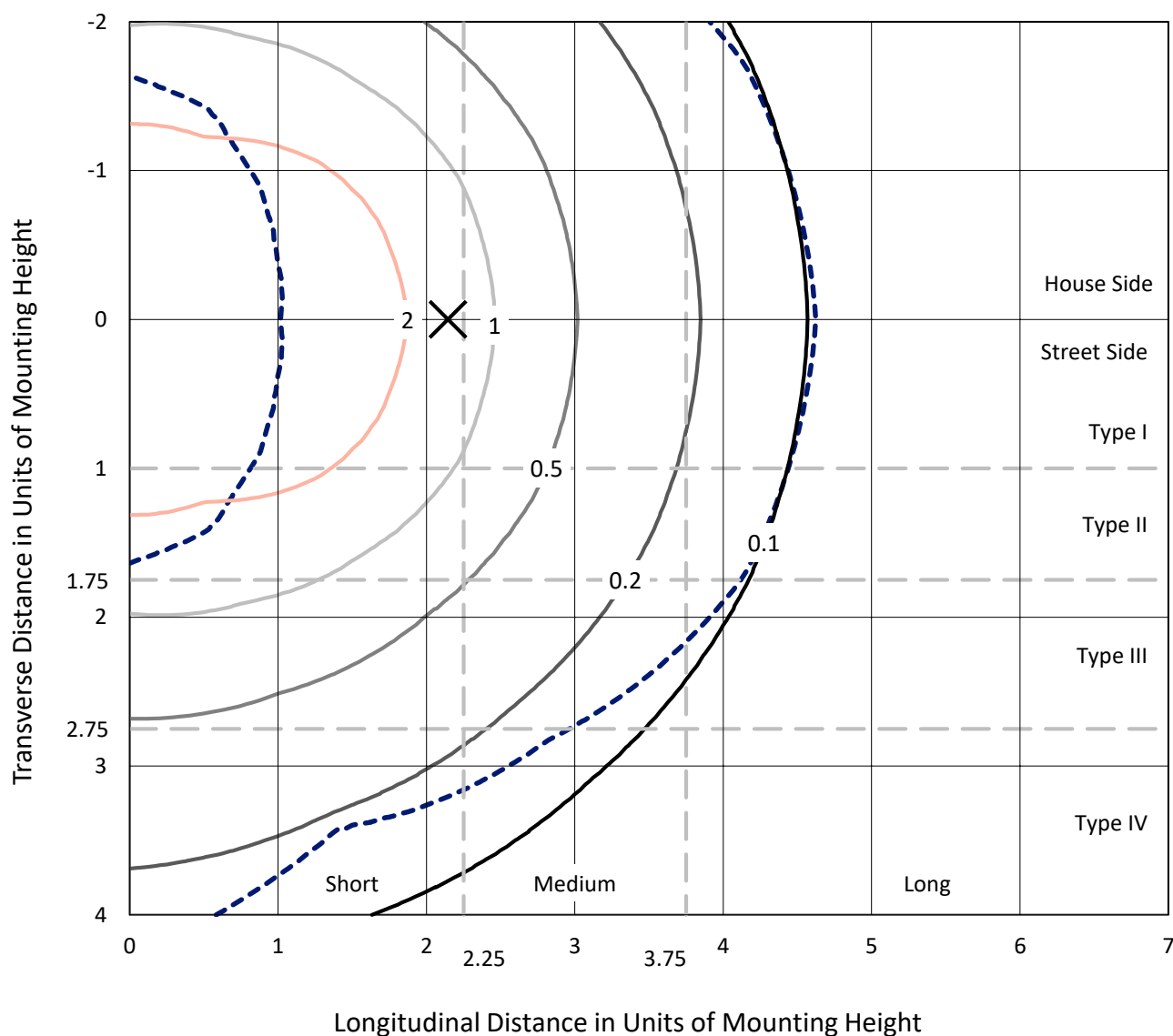


REPORT NUMBER: P197954

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

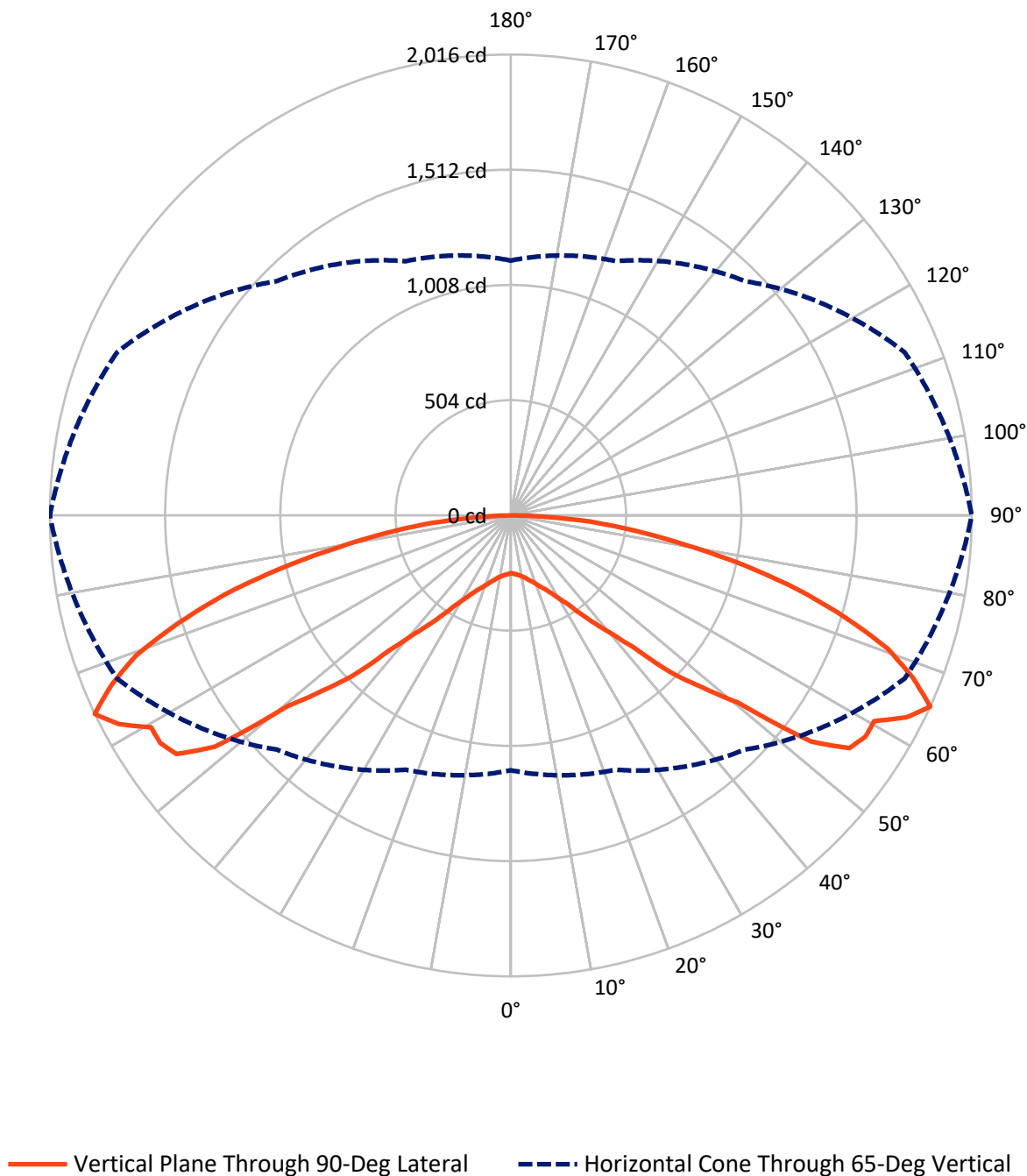


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P197954

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

Luminous Intensity Polar Plot



REPORT NUMBER: P197954

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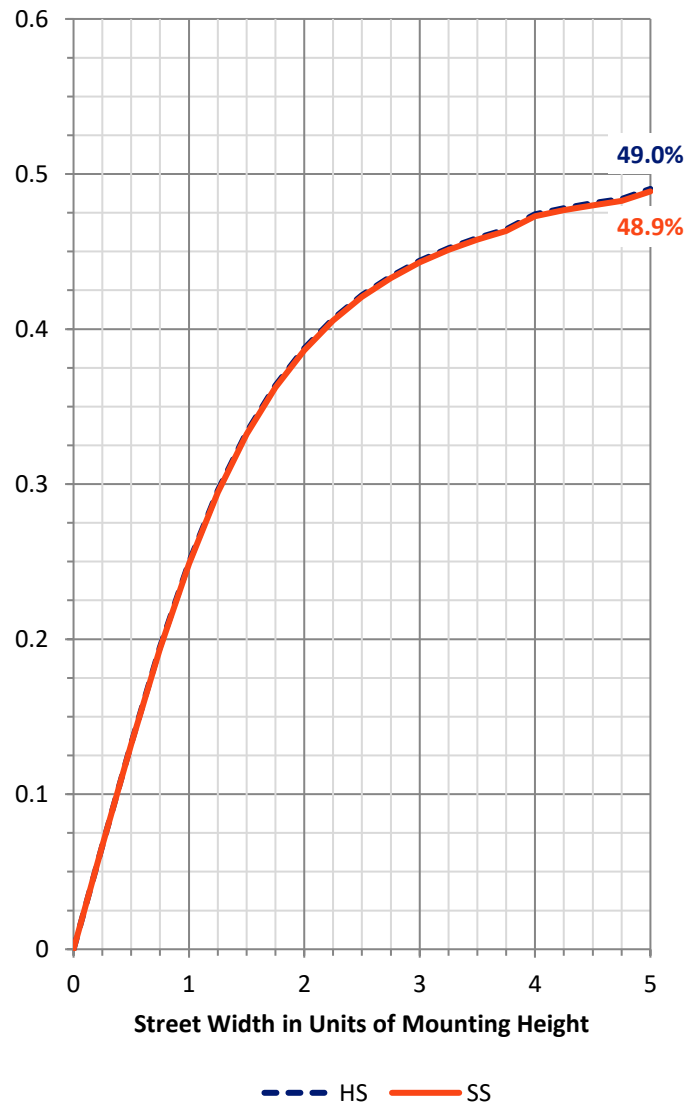
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2684.9	0.0	2684.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2684.9	0.0	2684.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5369.7	0.0	5369.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.2	0.5
10°-20°	85.7	1.6
20°-30°	180.0	3.4
30°-40°	342.2	6.4
40°-50°	636.1	11.8
50°-60°	1127.3	21.0
60°-70°	1464.1	27.3
70°-80°	1166.1	21.7
80°-90°	343.1	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°	5369.7	100.0
0°-180°	5369.7	100.0

Coefficient of Utilization



REPORT NUMBER: P197954

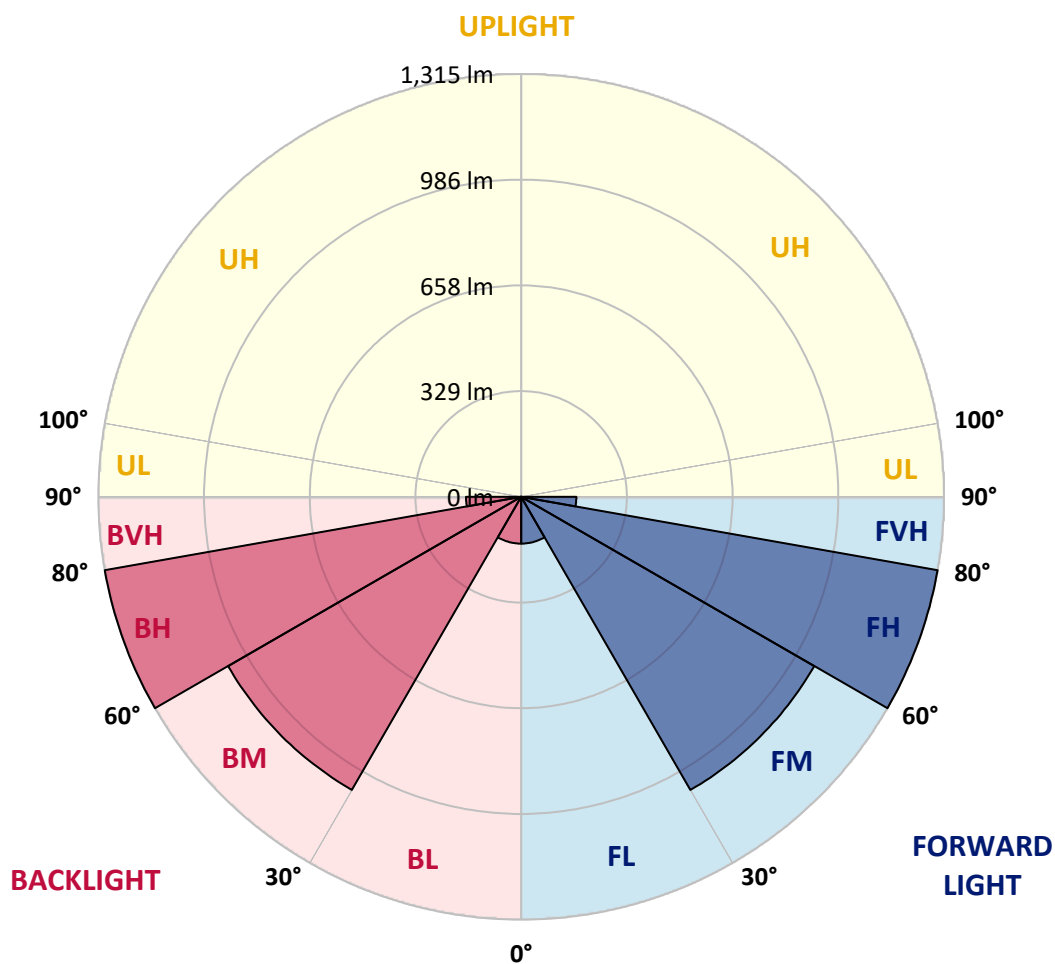
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.5	2.7			
FM	(30°-60°)	1052.8	19.6			
FH	(60°-80°)	1315.1	24.5			G1/1800
FVH	(80°-90°)	171.5	3.2			G2/225
BL	(0°-30°)	145.5	2.7	B1/500		
BM	(30°-60°)	1052.8	19.6	B2/2500		
BH	(60°-80°)	1315.1	24.5	B3/2500		G3/2500
BVH	(80°-90°)	171.5	3.2			G2/225
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



REPORT NUMBER: P197954

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	252.3	252.3	252.3	252.3	252.3
2.5°	254.6	254.6	255.8	255.8	255.8
5°	259.4	259.4	260.6	260.6	259.4
7.5°	265.3	267.7	266.5	264.1	264.1
10°	274.8	276.0	273.6	272.4	271.2
12.5°	286.6	287.8	283.1	281.9	279.5
15°	303.2	302.0	297.3	292.5	292.5
17.5°	325.7	318.6	310.3	306.8	304.4
20°	351.8	342.3	331.6	323.3	322.2
22.5°	381.4	368.4	354.1	342.3	341.1
25°	409.8	399.1	381.4	366.0	361.2
27.5°	440.6	432.3	409.8	392.0	388.5
30°	476.1	469.0	443.0	426.4	425.2
32.5°	517.6	508.1	479.7	467.8	466.7
35°	567.3	549.6	524.7	516.4	530.6
37.5°	614.7	594.6	574.4	588.7	600.5
40°	656.2	643.1	633.7	663.3	679.9
42.5°	696.4	689.3	696.4	740.3	791.2
45°	739.1	741.4	767.5	887.1	978.3
47.5°	788.8	790.0	851.6	1035.2	1121.6
50°	843.3	842.1	951.1	1146.5	1285.1
52.5°	896.6	901.3	1050.6	1385.8	1642.8
55°	944.0	970.0	1185.6	1626.2	1796.8
57.5°	985.4	1035.2	1312.3	1697.3	1827.5
60°	1030.4	1113.3	1401.2	1711.5	1826.4
62.5°	1074.3	1174.9	1420.1	1774.2	1943.6
65°	1114.5	1203.4	1448.5	1864.3	2015.9
67.5°	1147.7	1217.6	1448.5	1786.1	1896.2
70°	1174.9	1199.8	1364.4	1645.1	1749.4
72.5°	1169.0	1126.4	1225.9	1472.2	1532.6
75°	1113.3	997.3	1080.2	1238.9	1299.3
77.5°	973.6	835.0	880.0	998.5	1037.5
80°	771.1	651.4	677.5	753.3	765.1
82.5°	543.6	467.8	477.3	535.4	543.6
85°	319.8	287.8	278.3	330.5	347.0
87.5°	94.8	82.9	81.7	99.5	110.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)