

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: P821481

Luminaire Tested: **TT-D1-735-12VDC-RW**

Issue Date: 10/15/2020

Test Information

Test Method: LM-79-08
Report Number: P821481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-981-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D1-735-12VDC-RW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

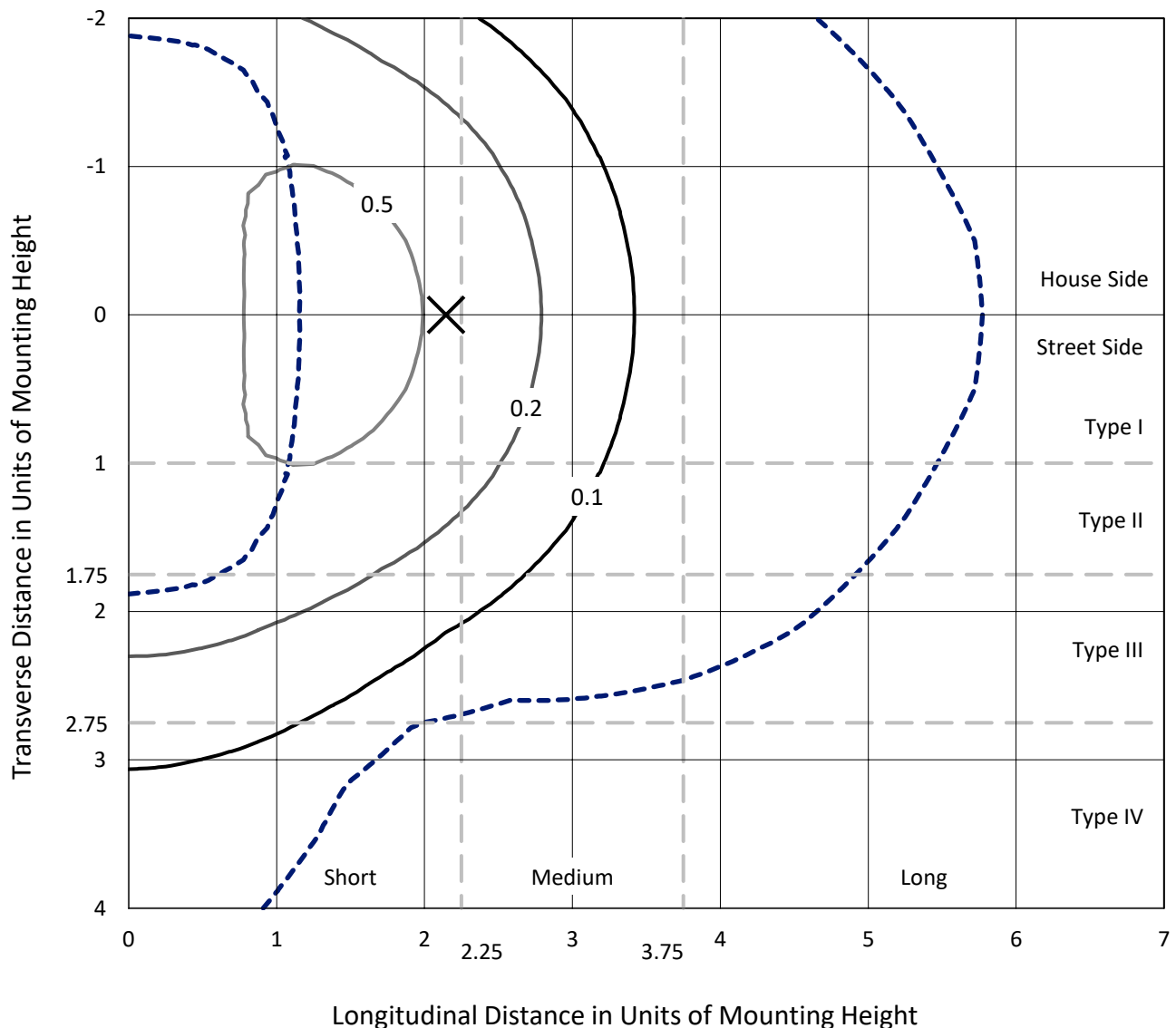
Lumens per Lamp: N/A
Luminaire Lumens: 2927 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 28
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

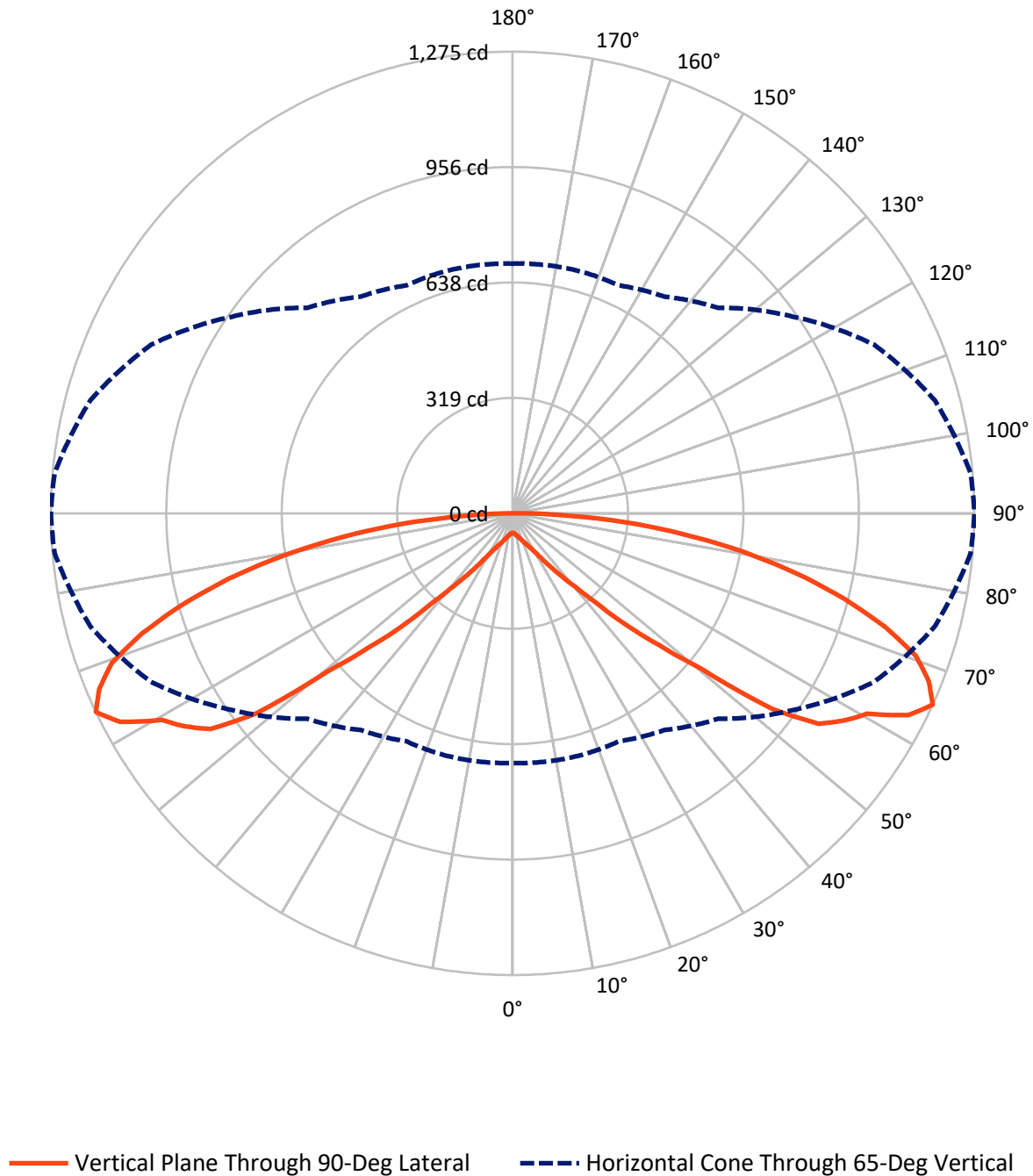
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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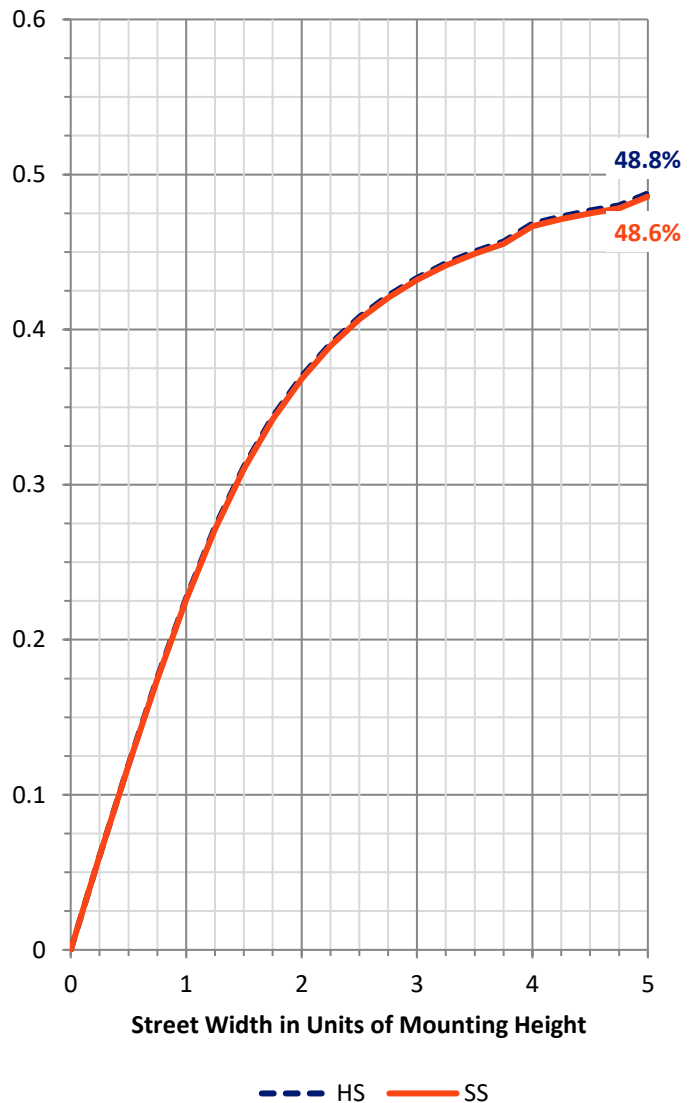
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1463.5	0.0	1463.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1463.5	0.0	1463.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2927.0	0.0	2927.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.2
10°-20°	20.9	0.7
20°-30°	48.2	1.6
30°-40°	109.1	3.7
40°-50°	265.7	9.1
50°-60°	597.4	20.4
60°-70°	873.1	29.8
70°-80°	760.7	26.0
80°-90°	246.4	8.4
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°	2927.0	100.0
0°-180°	2927.0	100.0



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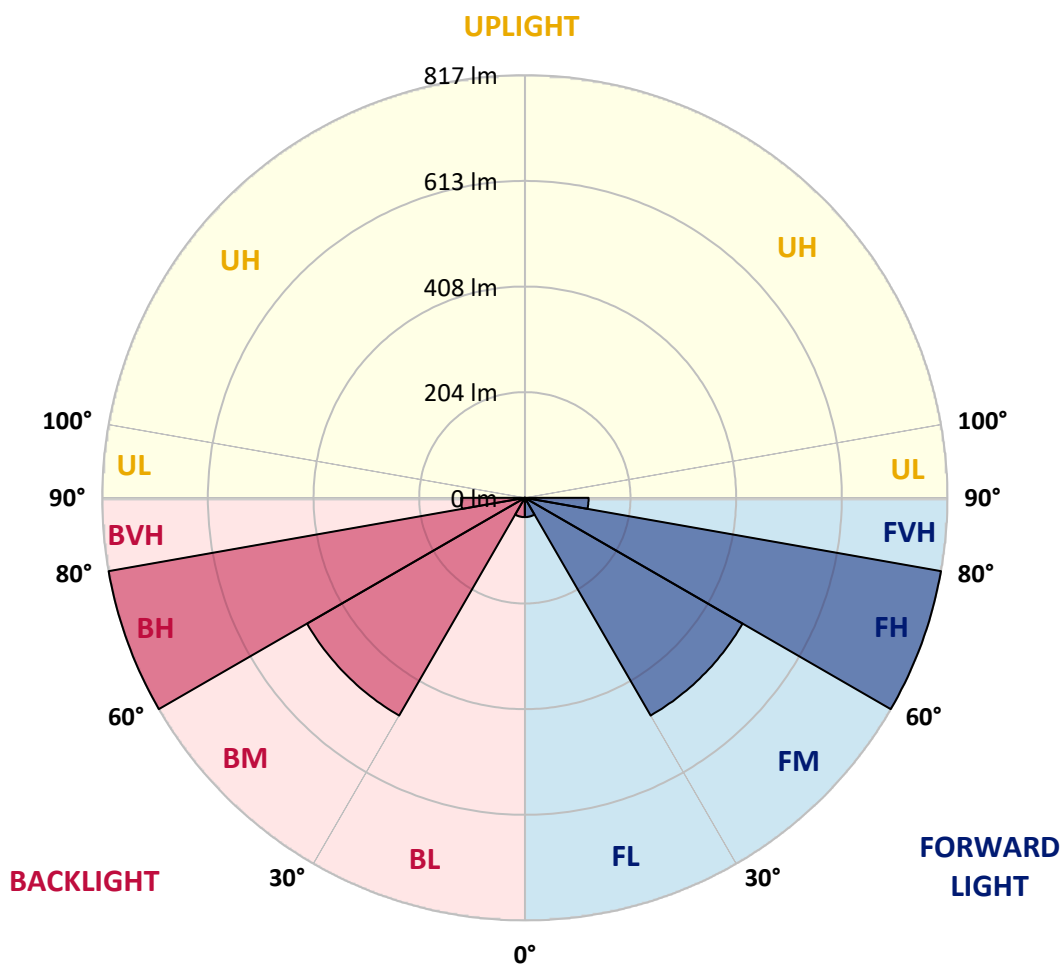
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	37.3	1.3			
FM	(30°-60°)	486.1	16.6			
FH	(60°-80°)	816.9	27.9			G1/1800
FVH	(80°-90°)	123.2	4.2			G2/225
BL	(0°-30°)	37.3	1.3	B0/110		
BM	(30°-60°)	486.1	16.6	B1/1000		
BH	(60°-80°)	816.9	27.9	B2/1000		G2/1000
BVH	(80°-90°)	123.2	4.2			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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
2.5°	54.2	54.2	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
5°	56.3	56.3	56.3	56.3	56.9	56.9	56.3	56.3	56.3	56.3	56.3
7.5°	59.7	59.0	59.7	59.7	59.7	59.0	59.0	59.0	58.3	58.3	58.3
10°	63.2	63.2	63.9	63.2	63.2	62.5	62.5	62.5	61.8	61.8	61.8
12.5°	68.1	68.1	68.1	68.1	67.4	67.4	66.7	66.0	65.3	65.3	65.3
15°	74.3	73.6	73.6	72.9	72.2	71.5	70.8	70.8	70.1	70.1	70.1
17.5°	80.6	80.6	79.9	79.2	77.8	77.1	77.1	76.4	75.7	75.7	75.7
20°	88.2	88.2	87.5	86.1	84.7	84.0	83.3	83.3	82.6	82.6	82.6
22.5°	97.2	96.5	95.1	93.8	92.4	91.7	91.0	90.3	90.3	90.3	90.3
25°	107.0	106.3	105.6	103.5	101.4	100.7	99.3	99.3	98.6	99.3	99.3
27.5°	118.8	118.1	116.7	114.6	111.8	110.4	109.7	109.7	110.4	110.4	111.1
30°	133.3	132.0	130.6	127.8	125.0	122.9	122.9	123.6	125.7	127.1	127.1
32.5°	150.7	150.0	147.9	145.2	140.3	138.9	140.3	144.5	147.2	149.3	150.7
35°	170.8	170.2	167.4	162.5	159.0	158.3	162.5	169.5	178.5	181.3	182.7
37.5°	193.1	193.8	190.3	184.7	181.3	182.7	191.0	204.2	213.2	219.5	220.9
40°	220.9	222.2	218.1	211.8	208.4	213.9	227.1	242.4	258.4	266.0	268.1
42.5°	253.5	255.6	250.0	243.8	241.7	250.7	269.5	294.5	322.9	332.0	335.4
45°	293.8	295.2	288.2	282.7	281.3	297.2	329.2	370.9	416.0	436.8	440.3
47.5°	341.7	341.0	334.8	327.8	329.2	352.1	400.0	456.3	504.2	536.2	543.1
50°	396.6	393.1	388.2	379.9	388.9	422.3	482.7	550.7	631.3	659.8	672.3
52.5°	451.4	445.2	441.0	435.5	451.4	494.5	579.2	698.0	819.5	884.8	898.0
55°	500.7	495.9	493.8	494.5	519.5	581.3	692.4	844.5	961.9	1016.1	1025.8
57.5°	549.4	546.6	544.5	548.7	588.2	668.8	793.8	936.2	1032.7	1073.0	1080.0
60°	595.2	598.0	596.6	609.1	657.0	738.3	846.6	986.9	1080.0	1116.8	1124.4
62.5°	645.9	648.0	648.0	661.9	700.8	772.3	882.7	1046.6	1164.7	1218.9	1227.2
65°	689.6	691.0	693.8	694.5	730.6	802.2	946.6	1101.5	1207.0	1269.6	1275.1
67.5°	722.3	723.7	720.2	716.7	744.5	809.1	941.7	1094.5	1188.3	1235.5	1239.7
70°	748.7	742.4	732.7	715.3	724.4	773.0	901.5	1039.0	1133.4	1175.8	1182.0
72.5°	752.1	746.6	716.0	677.1	666.0	708.4	830.6	954.2	1035.5	1075.8	1076.5
75°	731.3	716.7	666.0	607.7	586.9	627.1	732.0	844.5	909.8	943.8	947.3
77.5°	661.2	647.3	583.4	516.7	493.1	527.8	616.7	707.7	770.2	803.5	805.6
80°	536.9	532.0	473.7	412.5	384.1	404.2	482.0	553.5	604.2	643.8	647.3
82.5°	395.9	391.7	347.3	293.8	270.9	287.5	343.1	395.9	443.1	475.0	477.1
85°	247.2	238.9	211.1	173.6	158.3	169.5	206.3	241.7	284.1	309.1	310.4
87.5°	82.6	79.2	68.1	56.3	47.2	49.3	60.4	73.6	107.6	118.8	125.7
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)