

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: P400589

Luminaire Tested: **TT-D1-827-U-WQ**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-14)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D1-827-U-WQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
2700K, 80 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3237 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

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: 28.75 FT

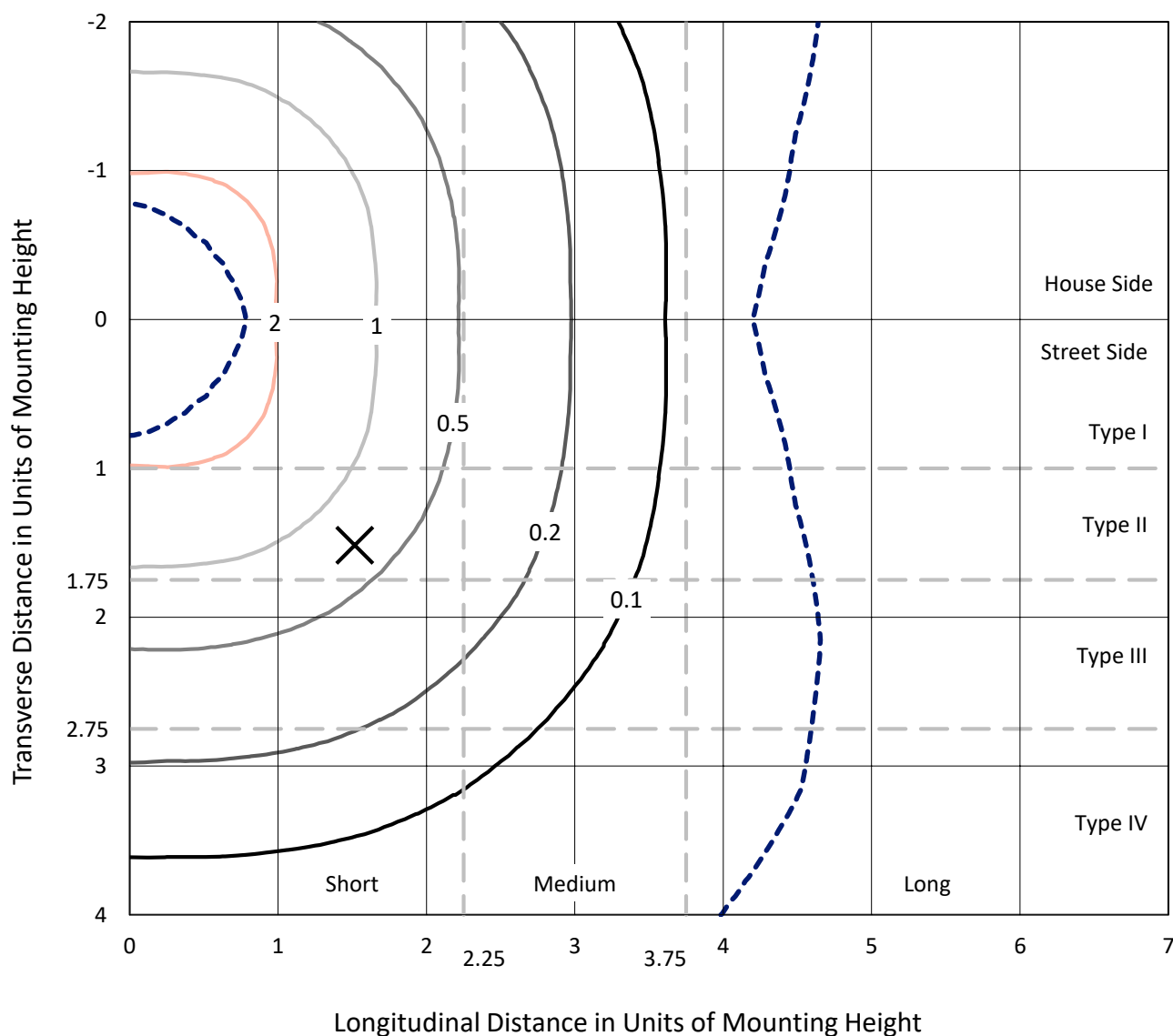


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

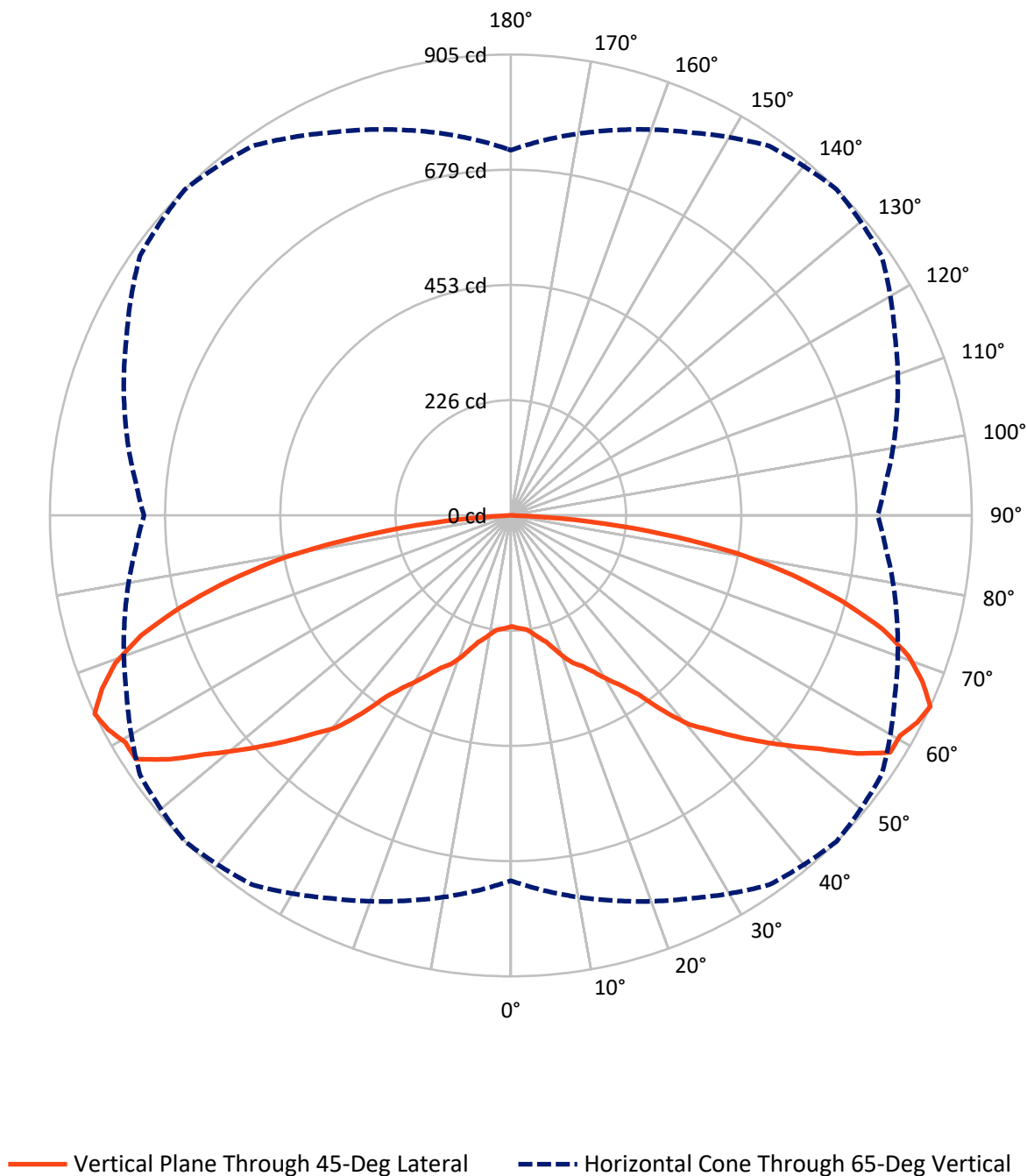


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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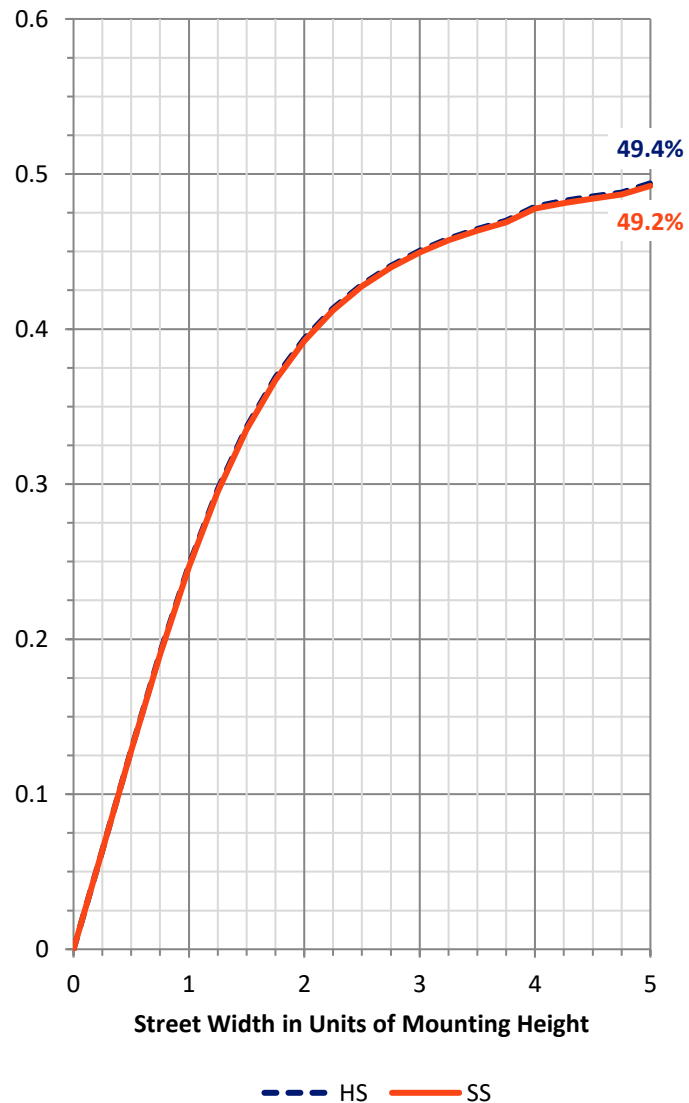
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1618.5	0.0	1618.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1618.5	0.0	1618.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3237.0	0.0	3237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	0.7
10°-20°	74.7	2.3
20°-30°	153.4	4.7
30°-40°	272.6	8.4
40°-50°	459.5	14.2
50°-60°	677.8	20.9
60°-70°	795.5	24.6
70°-80°	619.7	19.1
80°-90°	162.0	5.0
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°	3237.0	100.0
0°-180°	3237.0	100.0

Coefficient of Utilization



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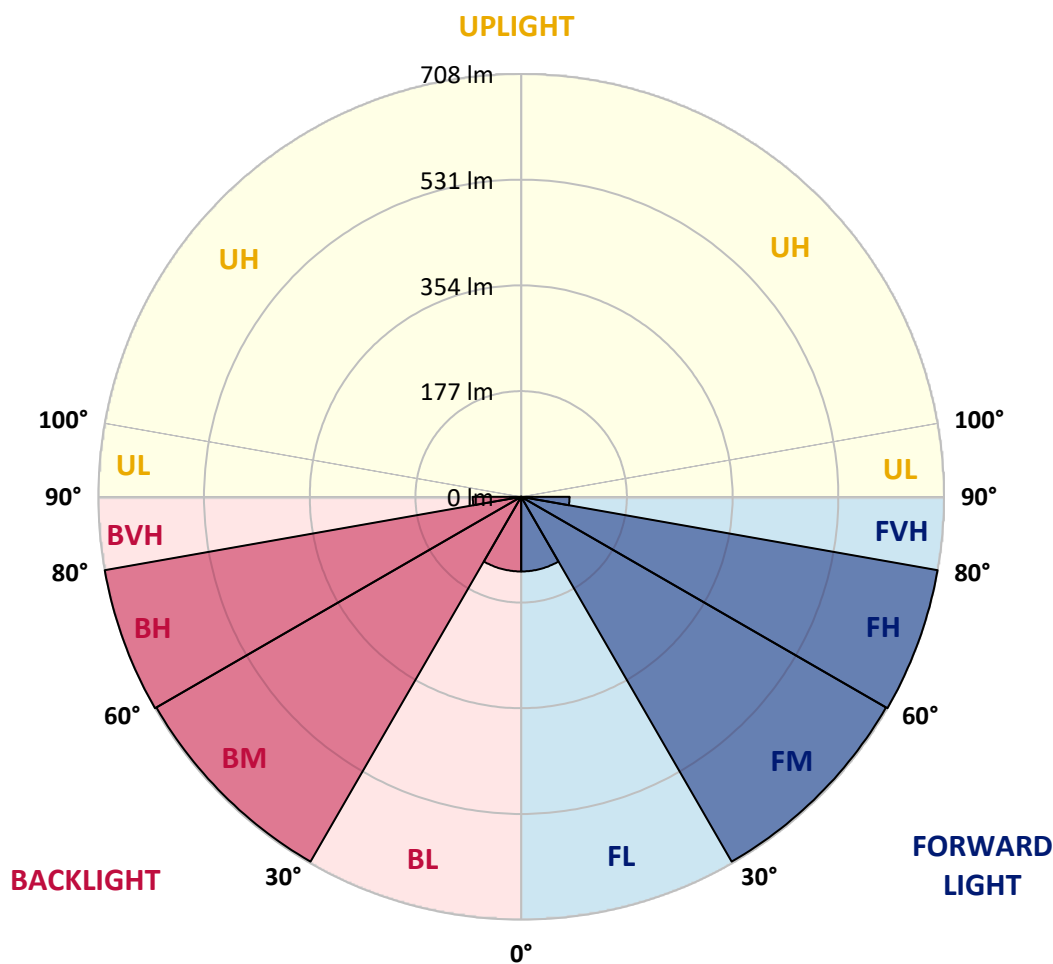
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	124.9	3.9			
FM	(30°-60°)	704.9	21.8			
FH	(60°-80°)	707.6	21.9			G1/1800
FVH	(80°-90°)	81.0	2.5			G1/100
BL	(0°-30°)	124.9	3.9	B1/500		
BM	(30°-60°)	704.9	21.8	B1/1000		
BH	(60°-80°)	707.6	21.9	B2/1000		G1/1800
BVH	(80°-90°)	81.0	2.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	217.9	217.9	217.9	217.9	217.9	217.9	217.9	217.9	217.9	217.9	217.9
2.5°	221.4	221.4	221.4	220.9	220.9	220.9	220.9	221.4	221.4	221.4	221.4
5°	226.5	226.5	225.5	224.5	223.5	223.5	224.0	224.5	225.0	226.0	226.0
7.5°	229.6	229.6	229.1	228.0	226.5	226.5	227.0	228.0	228.5	228.5	228.0
10°	233.6	234.1	235.7	236.2	235.2	235.2	235.7	236.2	235.2	233.6	233.6
12.5°	243.3	243.8	245.9	247.4	247.4	246.4	246.9	247.9	245.3	242.8	243.3
15°	257.1	257.1	257.6	259.1	258.1	257.1	258.1	258.6	257.1	256.5	257.6
17.5°	275.4	275.4	272.3	274.9	275.4	274.9	275.9	273.3	271.8	273.9	274.9
20°	295.2	293.2	291.7	293.7	297.8	296.2	298.3	292.7	291.2	292.2	292.7
22.5°	308.0	309.5	310.5	311.5	317.1	315.1	317.1	311.0	310.0	308.0	306.4
25°	323.2	324.8	330.9	327.8	331.4	328.3	330.9	327.3	329.3	323.2	323.2
27.5°	340.5	343.6	347.2	345.6	350.2	348.7	350.2	345.1	345.6	343.1	342.1
30°	363.9	363.9	362.9	366.0	374.1	373.1	373.6	367.0	362.4	362.9	365.0
32.5°	387.4	384.3	385.8	395.0	400.1	398.1	399.1	396.0	385.8	383.8	385.3
35°	409.3	413.8	417.4	425.0	432.2	431.1	430.6	425.5	418.9	410.8	408.2
37.5°	443.4	448.4	458.1	471.9	484.6	487.1	480.5	473.9	458.6	446.9	440.8
40°	488.1	488.7	499.9	526.3	538.0	540.1	536.5	525.3	501.9	488.7	488.1
42.5°	527.3	523.8	542.1	564.5	575.2	576.2	573.7	564.5	542.1	523.3	526.8
45°	557.9	557.9	579.8	597.6	614.9	619.0	614.4	595.0	580.3	558.4	556.9
47.5°	585.9	593.5	611.8	633.7	658.2	663.8	658.2	635.3	610.3	594.0	585.4
50°	619.5	628.6	641.9	676.0	703.5	711.1	703.0	678.0	641.9	628.1	623.0
52.5°	658.7	666.3	687.2	729.9	750.3	761.5	754.9	731.0	688.2	667.3	663.3
55°	705.5	698.4	731.0	772.2	809.8	824.6	811.4	773.2	736.0	698.4	705.5
57.5°	729.4	721.3	767.1	806.3	858.7	878.1	861.8	809.3	767.1	723.8	728.9
60°	731.5	735.0	769.6	833.8	869.9	878.1	873.0	838.4	771.2	738.1	728.4
62.5°	725.4	747.2	776.8	842.9	875.5	895.4	878.1	844.0	779.8	750.8	725.9
65°	717.2	739.1	782.9	829.7	885.2	905.0	888.7	832.2	784.9	739.1	720.3
67.5°	703.0	695.3	749.3	811.9	860.2	871.9	861.8	812.9	748.8	694.3	704.5
70°	657.7	651.0	697.4	766.1	812.4	828.7	816.5	767.1	698.4	652.6	658.7
72.5°	590.5	592.5	637.3	703.0	752.8	763.0	756.4	702.4	639.8	595.0	586.9
75°	512.1	517.2	559.9	619.5	664.8	670.9	664.3	622.0	559.4	520.2	509.5
77.5°	421.0	428.6	463.2	522.8	552.8	566.5	555.8	524.3	465.8	430.6	419.9
80°	326.3	328.8	353.3	401.1	440.8	450.0	439.8	402.6	356.3	329.8	322.2
82.5°	213.8	217.9	239.7	276.4	302.4	299.8	302.4	273.3	242.3	216.8	204.1
85°	95.2	103.3	118.1	135.4	152.2	156.8	152.2	137.4	118.1	101.3	99.3
87.5°	6.6	7.6	9.2	9.7	10.7	8.1	8.1	8.1	7.1	8.1	6.6
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)