

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: P531948

Luminaire Tested: **GALN-SA7B-735-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32351 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

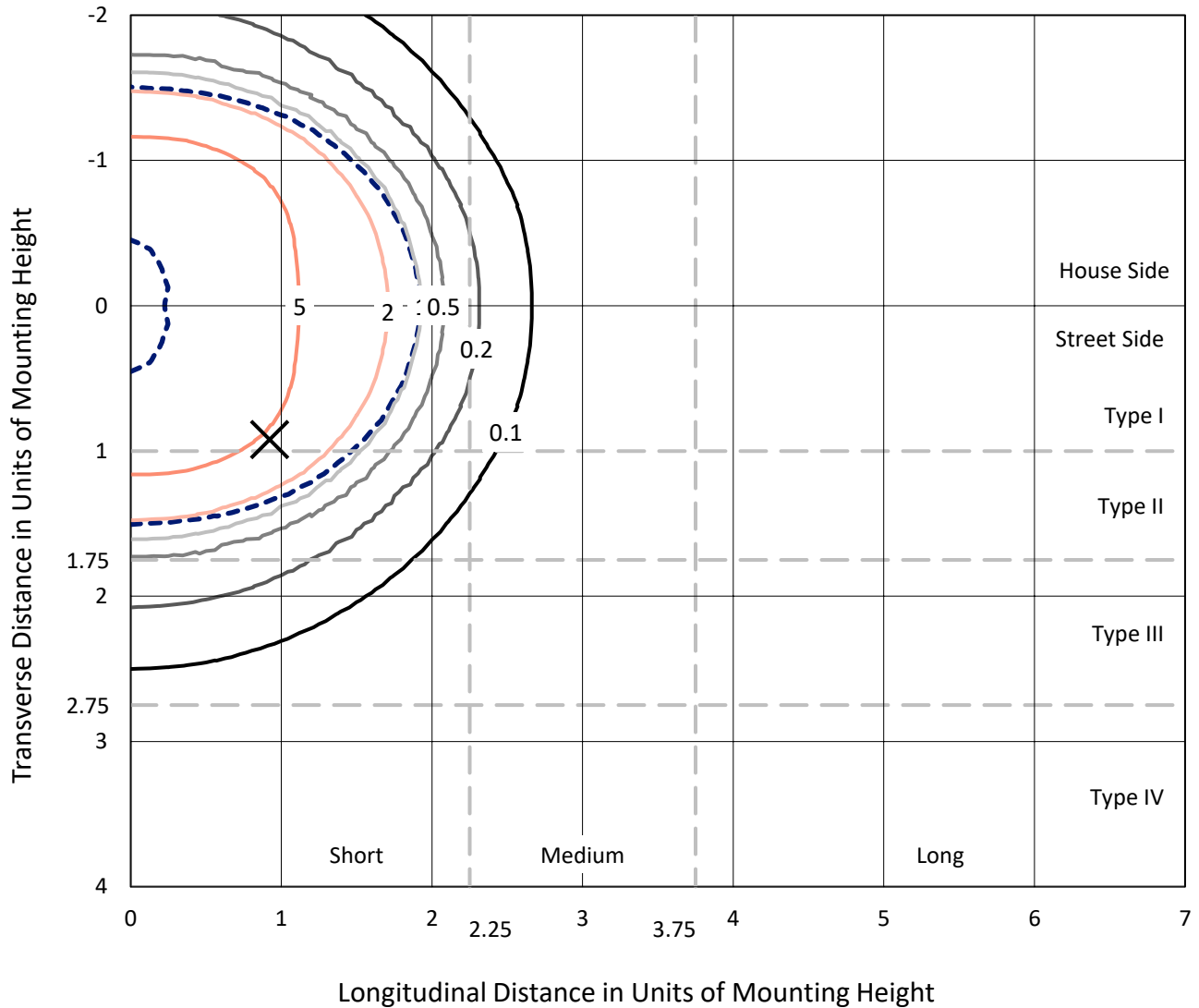
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

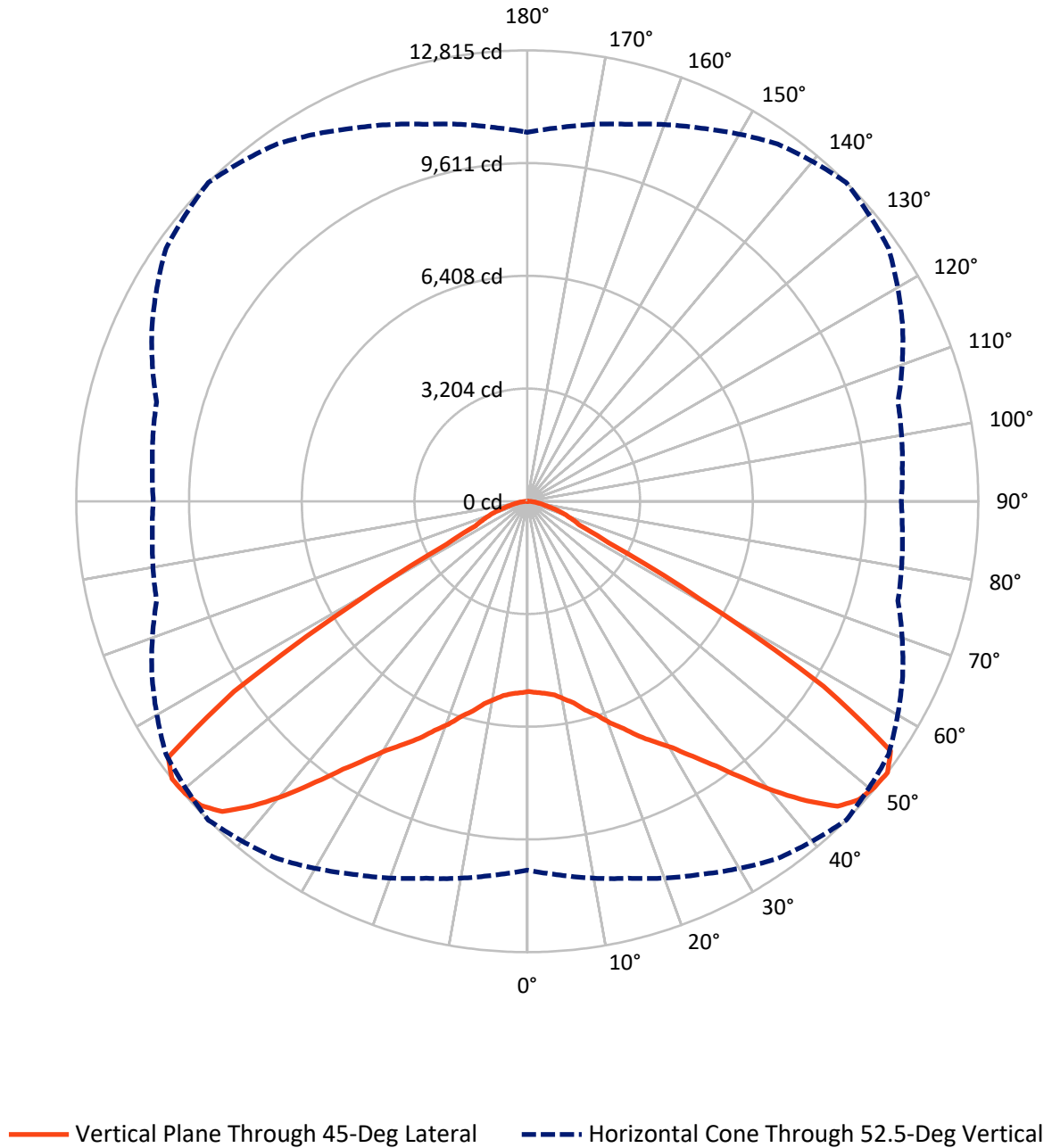
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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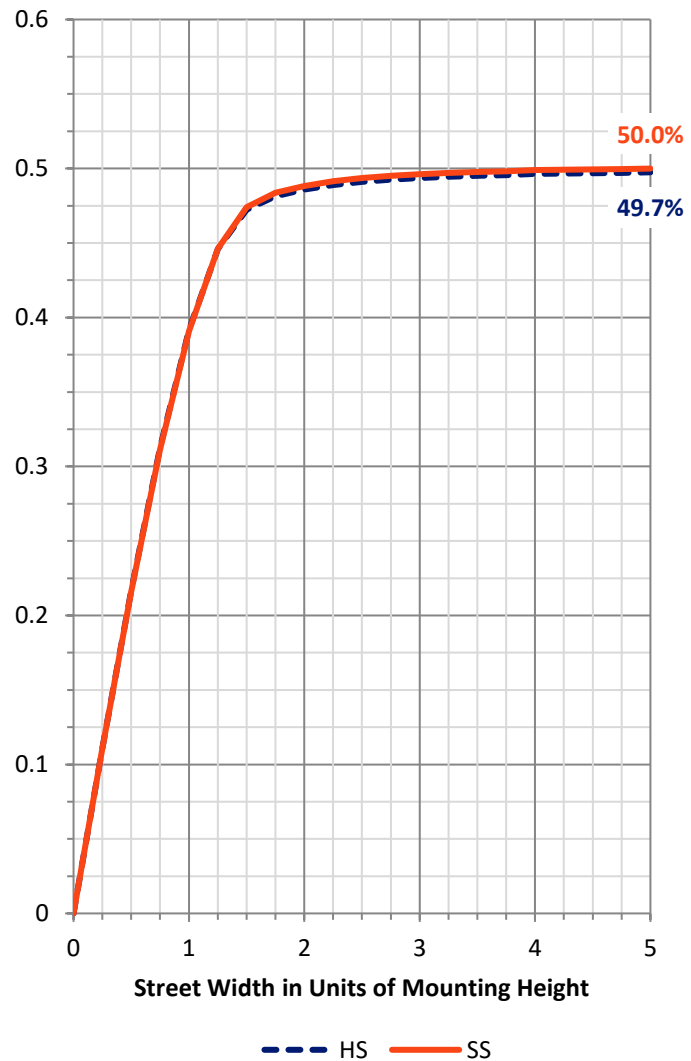
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16175.5	0.0	16175.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16175.5	0.0	16175.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32351.0	0.0	32351.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.3	1.6
10°-20°	1745.8	5.4
20°-30°	3323.9	10.3
30°-40°	5707.3	17.6
40°-50°	8772.3	27.1
50°-60°	8908.1	27.5
60°-70°	2482.6	7.7
70°-80°	732.3	2.3
80°-90°	147.5	0.5
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°	32351.0	100.0
0°-180°	32351.0	100.0



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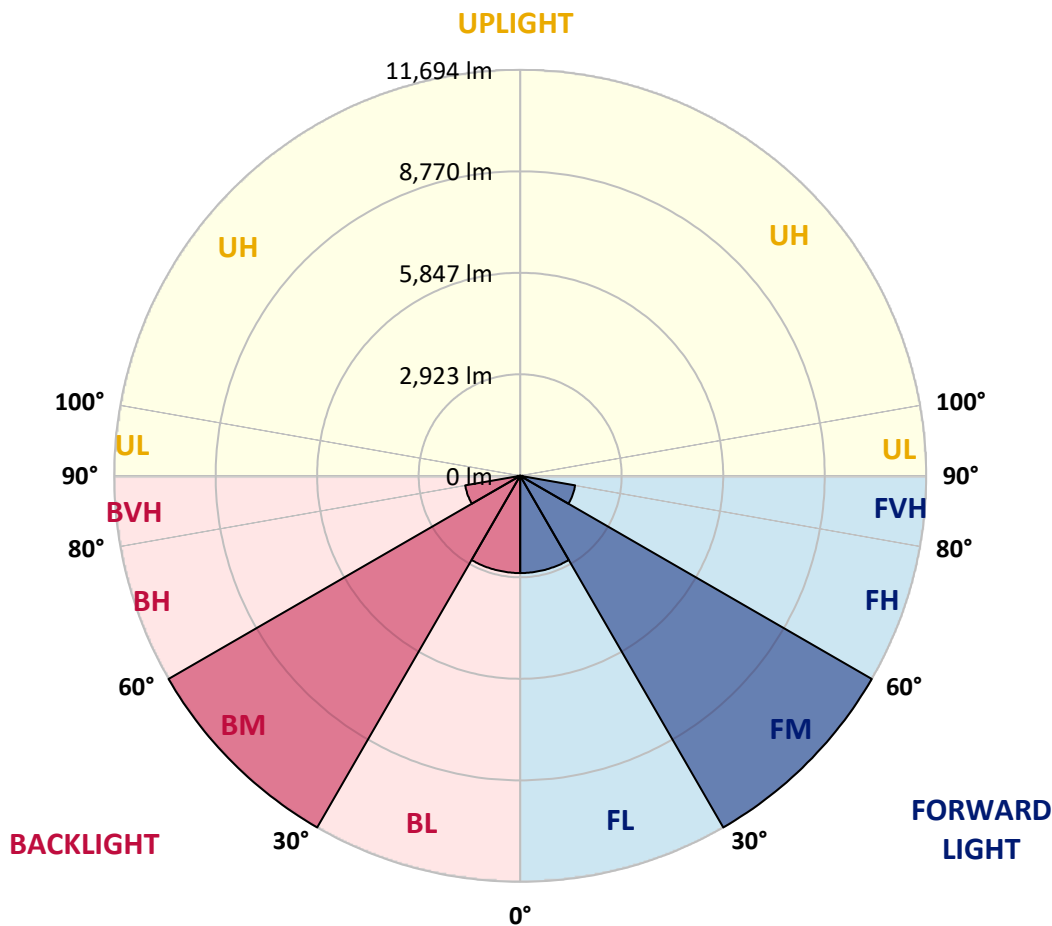
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2800.5	8.7			
FM (30°-60°)	11693.8	36.1			
FH (60°-80°)	1607.4	5.0			G1/1800
FVH (80°-90°)	73.8	0.2			G1/100
BL (0°-30°)	2800.5	8.7	B4/5000		
BM (30°-60°)	11693.8	36.1	B5		
BH (60°-80°)	1607.4	5.0	B3/2500		G1/1800
BVH (80°-90°)	73.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5407.9	5407.9	5407.9	5407.9	5407.9	5407.9	5407.9	5407.9	5407.9	5407.9	5407.9
2.5°	5419.9	5363.7	5383.8	5395.9	5448.0	5444.0	5432.0	5448.0	5464.1	5468.1	5460.1
5°	5415.9	5375.8	5391.8	5403.9	5456.1	5484.2	5476.1	5544.4	5592.6	5580.5	5640.8
7.5°	5383.8	5407.9	5387.8	5448.0	5492.2	5560.5	5632.7	5697.0	5757.2	5825.4	5837.5
10°	5456.1	5456.1	5492.2	5540.4	5656.8	5709.0	5813.4	5905.7	6022.2	6102.5	6070.3
12.5°	5532.4	5544.4	5544.4	5668.9	5765.2	5881.6	5978.0	6102.5	6267.1	6363.4	6411.6
15°	5608.6	5616.7	5656.8	5825.4	5970.0	6154.6	6243.0	6355.4	6447.7	6628.4	6632.4
17.5°	5676.9	5721.0	5841.5	6030.2	6210.9	6387.5	6528.0	6644.4	6724.7	6797.0	6780.9
20°	5933.8	5965.9	6090.4	6279.1	6548.1	6720.7	6768.9	6789.0	6841.2	6985.7	6941.5
22.5°	6182.7	6194.8	6311.2	6600.3	6789.0	7017.8	7070.0	7058.0	7078.0	7114.2	7178.4
25°	6439.7	6459.8	6620.4	6865.3	7130.2	7403.2	7447.4	7355.1	7327.0	7367.1	7371.1
27.5°	6768.9	6772.9	6977.7	7190.5	7491.6	7748.5	7816.8	7744.5	7612.0	7644.1	7696.3
30°	7186.4	7158.3	7363.1	7668.2	7985.4	8129.9	8246.3	8210.2	8065.7	8037.6	7993.4
32.5°	7668.2	7676.2	7860.9	8194.1	8402.9	8643.8	8768.3	8708.0	8615.7	8567.5	8595.6
35°	8346.7	8382.8	8507.3	8784.3	9121.6	9242.0	9438.7	9310.3	9069.4	9129.6	9181.8
37.5°	8904.8	9009.1	9242.0	9571.2	9772.0	9992.8	10065.0	9892.4	9715.7	9643.5	9816.1
40°	9759.9	9727.8	9984.7	10313.9	10611.0	10831.9	10739.5	10566.9	10129.3	10133.3	10181.5
42.5°	10494.6	10510.7	10707.4	11100.8	11506.3	11642.8	11349.8	10928.2	10442.4	10390.2	10494.6
45°	11112.9	11177.1	11289.5	11815.5	12212.9	12361.5	11819.5	11321.7	10671.3	10454.5	10627.1
47.5°	11333.7	11438.1	11683.0	12164.8	12558.2	12678.6	12245.1	11530.4	10884.0	10530.7	10623.1
50°	11365.8	11329.7	11731.2	12172.8	12518.1	12779.0	12397.6	11683.0	10831.9	10647.2	10619.1
52.5°	10486.6	10663.2	11092.8	11699.0	12397.6	12815.1	12534.1	11767.3	10904.1	10695.3	10627.1
55°	8487.2	8278.5	9061.3	10081.1	11365.8	12526.1	12485.9	11811.5	10948.3	10775.6	10683.3
57.5°	4737.4	4797.7	5239.3	6347.4	8005.5	9932.5	11100.8	11345.7	10928.2	10827.8	10876.0
60°	2192.1	2212.1	2400.8	2918.7	3946.5	5632.7	7170.4	8732.1	9450.8	9595.3	9595.3
62.5°	1634.0	1626.0	1674.2	1766.5	1983.3	2589.5	3456.7	4697.3	5684.9	6375.5	6556.1
65°	1477.4	1473.4	1497.5	1529.6	1545.7	1630.0	1822.7	2204.1	2525.3	2710.0	2677.9
67.5°	1292.8	1288.7	1296.8	1316.8	1344.9	1389.1	1437.3	1517.6	1630.0	1622.0	1601.9
70°	1043.8	1043.8	1055.9	1071.9	1104.1	1156.3	1212.5	1268.7	1365.0	1385.1	1381.1
72.5°	770.8	758.8	782.9	815.0	847.1	911.4	971.6	1023.8	1092.0	1112.1	1104.1
75°	489.8	497.8	513.9	550.0	606.2	650.4	714.6	758.8	803.0	819.0	823.0
77.5°	273.0	281.0	309.1	353.3	409.5	457.7	513.9	550.0	578.1	582.1	586.2
80°	164.6	168.6	196.7	236.9	285.0	337.2	381.4	417.5	441.6	429.6	425.6
82.5°	100.4	104.4	128.5	164.6	204.8	244.9	293.1	325.2	349.3	333.2	317.2
85°	52.2	56.2	76.3	100.4	132.5	152.6	152.6	136.5	132.5	124.5	120.4
87.5°	16.1	16.1	20.1	24.1	20.1	24.1	28.1	32.1	32.1	36.1	32.1
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)