

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: P532878

Luminaire Tested: **GALN-SA8B-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-735-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38553 lumens
Efficiency: N/A
Efficacy: 118.6 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

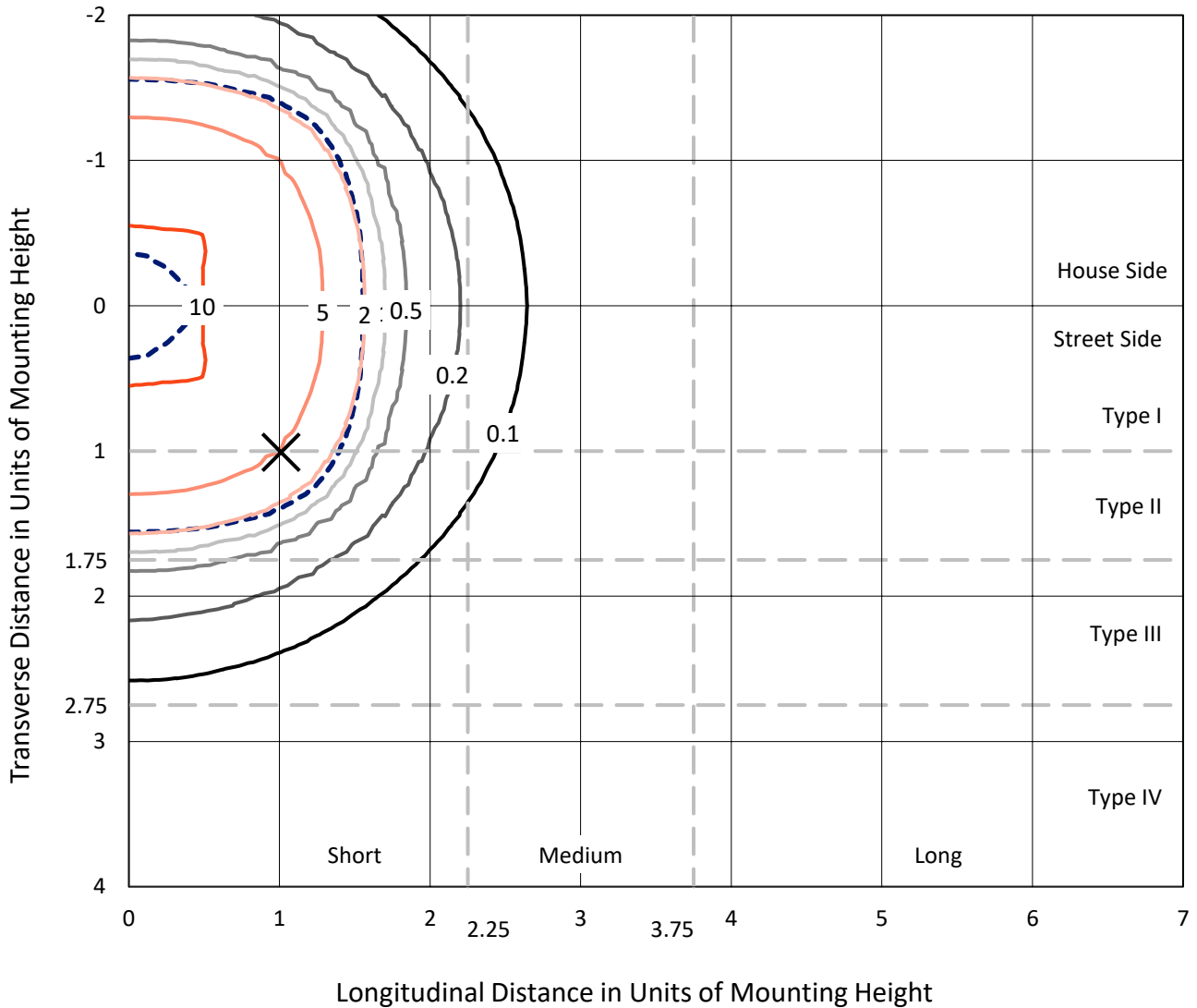
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

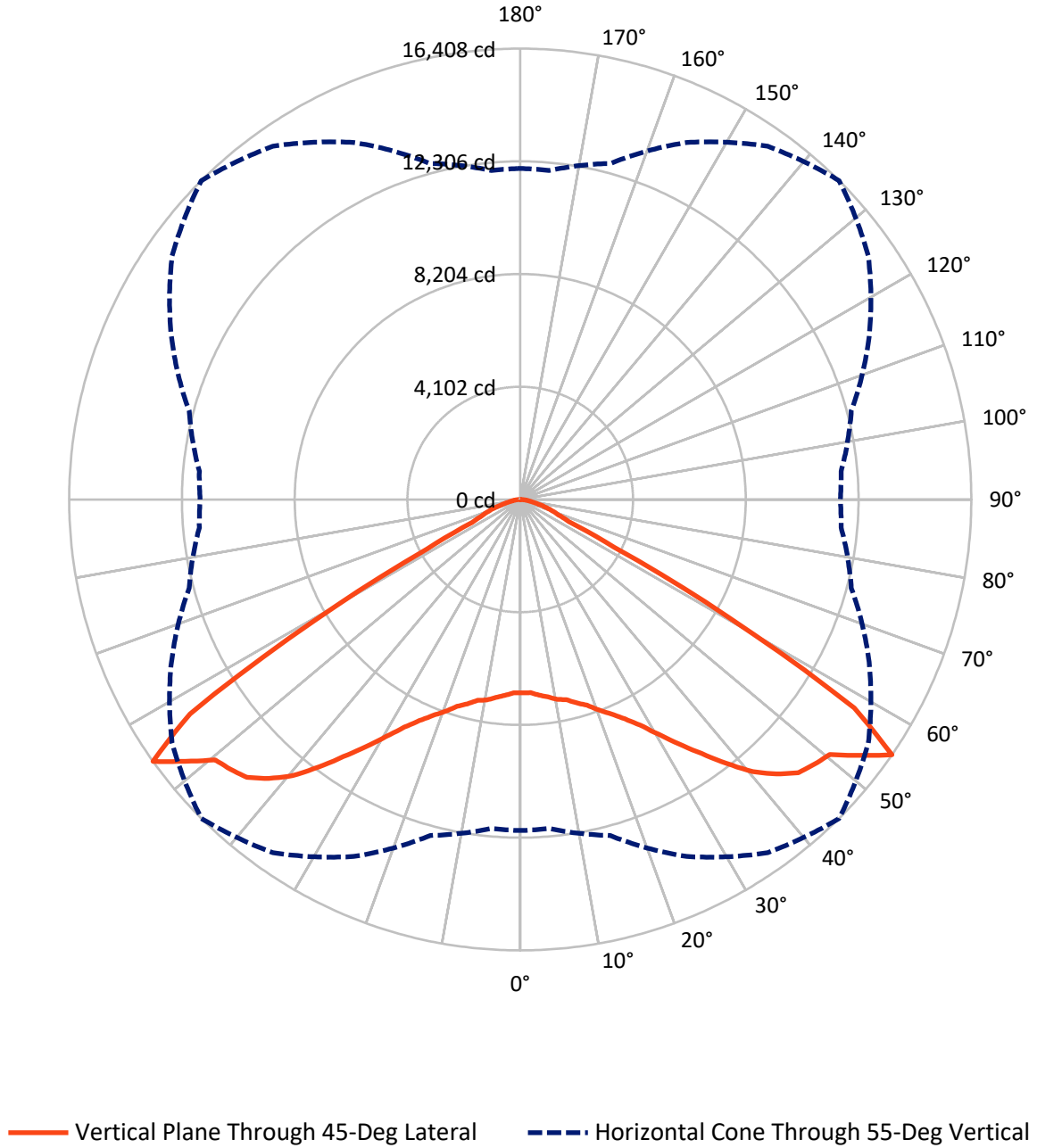
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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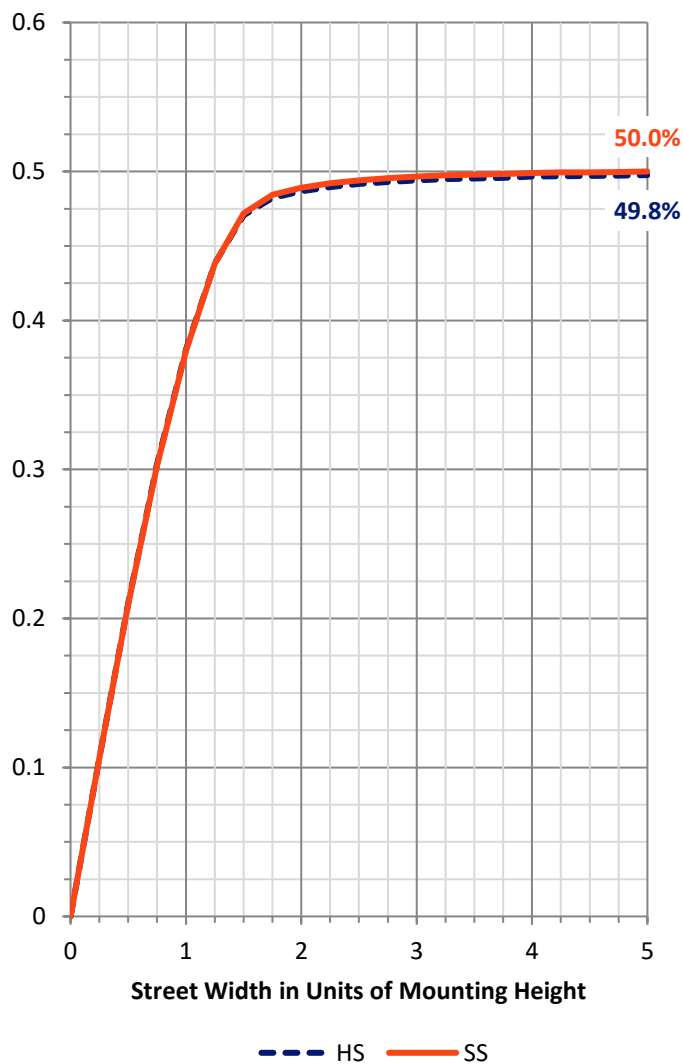
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19276.5	0.0	19276.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19276.5	0.0	19276.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38553.0	0.0	38553.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.7	1.8
10°-20°	2178.9	5.7
20°-30°	4062.9	10.5
30°-40°	6802.6	17.6
40°-50°	10585.4	27.5
50°-60°	10990.9	28.5
60°-70°	2330.8	6.0
70°-80°	767.6	2.0
80°-90°	146.2	0.4
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°	38553.0	100.0
0°-180°	38553.0	100.0

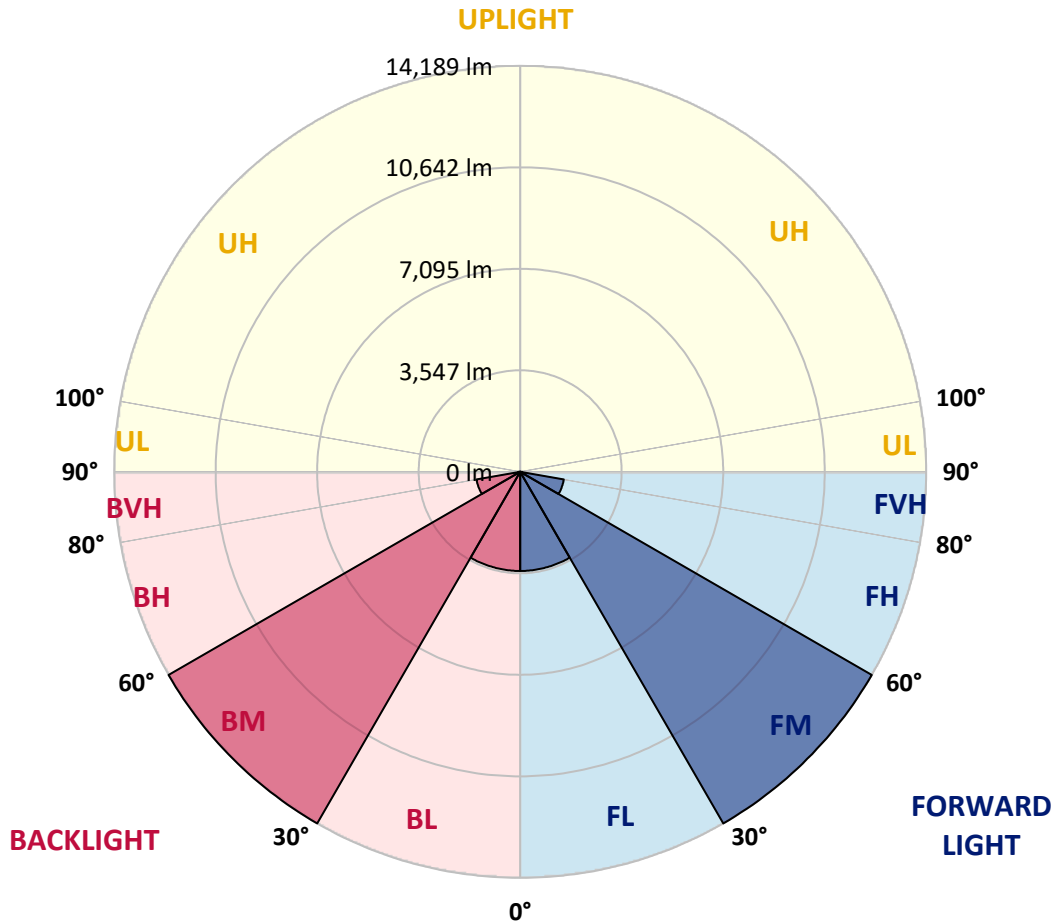


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3464.7	9.0			
FM (30°-60°)	14189.5	36.8			
FH (60°-80°)	1549.2	4.0			G1/1800
FVH (80°-90°)	73.1	0.2			G1/100
BL (0°-30°)	3464.7	9.0	B4/5000		
BM (30°-60°)	14189.5	36.8	B5		
BH (60°-80°)	1549.2	4.0	B3/2500		G1/1800
BVH (80°-90°)	73.1	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°	7039.2	7039.2	7039.2	7039.2	7039.2	7039.2	7039.2	7039.2	7039.2	7039.2	7039.2
2.5°	7123.1	7090.4	7034.5	7076.5	7109.1	7039.2	7067.2	7081.1	7071.8	7034.5	7048.5
5°	7225.5	7206.9	7160.3	7192.9	7151.0	7151.0	7123.1	7085.8	7141.7	7132.4	7155.7
7.5°	7225.5	7202.3	7295.4	7234.9	7253.5	7253.5	7206.9	7169.6	7197.6	7155.7	7132.4
10°	7370.0	7402.6	7360.6	7374.6	7365.3	7397.9	7328.0	7304.7	7281.5	7267.5	7239.5
12.5°	7542.3	7519.0	7533.0	7523.7	7556.3	7472.5	7430.5	7379.3	7421.2	7360.6	7402.6
15°	7682.1	7668.1	7682.1	7719.4	7686.8	7682.1	7607.6	7556.3	7491.1	7505.1	7439.8
17.5°	7873.1	7859.1	7863.8	7896.4	7891.7	7868.4	7812.5	7714.7	7691.4	7654.1	7612.2
20°	8157.3	8134.0	8124.7	8138.6	8161.9	8180.6	8068.8	8031.5	7952.3	7891.7	7821.9
22.5°	8399.5	8390.2	8427.5	8366.9	8418.2	8474.1	8366.9	8348.3	8152.6	8120.0	8045.5
25°	8734.9	8721.0	8697.7	8786.2	8846.8	8842.1	8739.6	8637.1	8488.0	8450.8	8450.8
27.5°	9089.0	9009.8	9130.9	9154.2	9261.4	9294.0	9205.5	9056.4	8916.6	8837.4	8856.1
30°	9531.6	9457.0	9485.0	9652.7	9792.5	9913.6	9690.0	9471.0	9275.3	9135.6	9112.3
32.5°	9974.1	9899.6	9983.5	10146.5	10426.0	10607.7	10388.8	10006.8	9778.5	9573.5	9615.4
35°	10332.9	10388.8	10523.9	10770.8	11059.6	11353.1	11003.7	10710.2	10384.1	10155.8	10188.4
37.5°	10910.5	11082.9	11190.0	11474.2	11884.2	12187.0	11823.6	11441.6	11092.2	10794.1	10691.6
40°	11665.2	11781.7	11902.8	12238.2	12722.7	13025.6	12680.8	12182.3	11837.6	11530.1	11516.2
42.5°	12494.5	12606.3	12732.1	13142.0	13430.9	13659.1	13342.3	13076.8	12694.8	12452.5	12438.6
45°	13458.8	13379.6	13519.4	13789.6	14031.8	14180.9	13975.9	13845.5	13570.6	13347.0	13323.7
47.5°	14101.7	14031.8	14283.4	14525.6	14562.9	14399.9	14441.8	14562.9	14274.1	13906.0	14022.5
50°	14474.4	14474.4	14642.1	14865.7	14795.8	14586.2	14917.0	14926.3	14637.4	14311.3	14311.3
52.5°	13826.8	13971.3	14446.4	15177.8	15410.8	15471.3	15396.8	15080.0	14325.3	13659.1	13626.5
55°	12047.2	12014.6	12657.5	14334.6	15690.3	16407.7	15457.4	13999.2	12466.5	11716.5	11641.9
57.5°	7835.8	7873.1	8832.8	10542.5	12988.3	14325.3	12722.7	10672.9	8832.8	7798.6	7896.4
60°	3526.6	3652.4	4234.7	5511.2	7612.2	8702.3	7630.8	5790.7	4444.3	3857.4	3908.6
62.5°	2026.5	2049.8	2073.1	2459.8	3242.4	3834.1	3368.2	2599.5	2292.1	2189.6	2189.6
65°	1709.7	1695.7	1700.4	1733.0	1816.9	1938.0	1886.7	1816.9	1826.2	1816.9	1802.9
67.5°	1453.5	1472.1	1458.2	1481.4	1486.1	1504.7	1537.4	1565.3	1570.0	1579.3	1570.0
70°	1192.6	1197.3	1206.6	1225.2	1229.9	1243.9	1290.4	1313.7	1327.7	1327.7	1346.3
72.5°	913.1	908.4	917.8	936.4	959.7	964.3	1006.3	1038.9	1057.5	1034.2	1038.9
75°	601.0	605.6	619.6	633.6	666.2	698.8	712.8	745.4	750.0	759.4	736.1
77.5°	358.7	368.0	382.0	410.0	437.9	465.9	498.5	521.8	531.1	521.8	493.8
80°	232.9	232.9	251.6	274.9	307.5	330.8	349.4	368.0	382.0	368.0	358.7
82.5°	144.4	144.4	167.7	195.7	219.0	232.9	260.9	284.2	298.2	288.8	274.9
85°	74.5	79.2	97.8	121.1	139.8	149.1	144.4	130.4	116.5	111.8	102.5
87.5°	23.3	23.3	28.0	28.0	23.3	23.3	28.0	23.3	28.0	28.0	28.0
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)