

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: P648635

Luminaire Tested: **GALN-SA9B-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34266.4 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

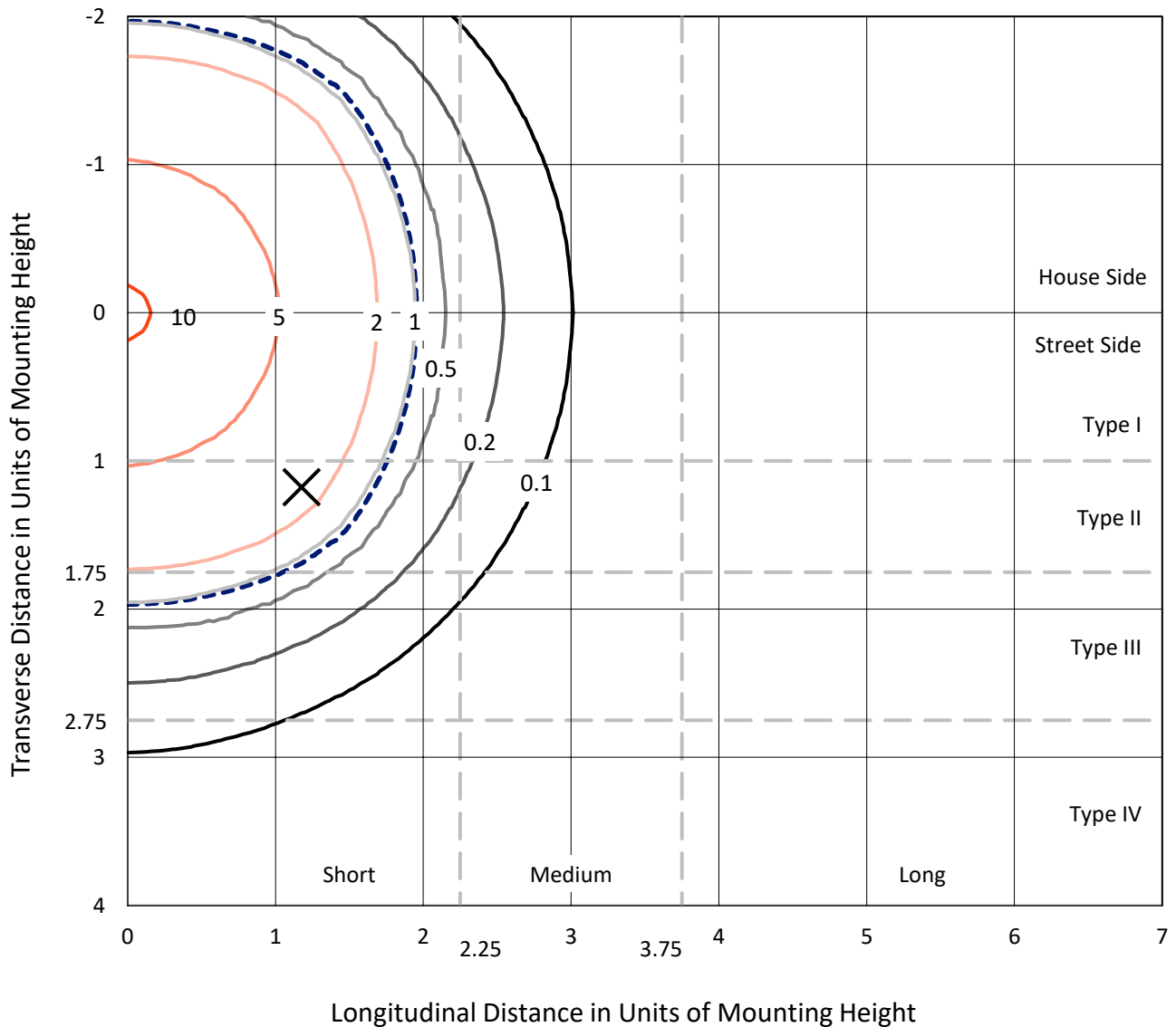
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

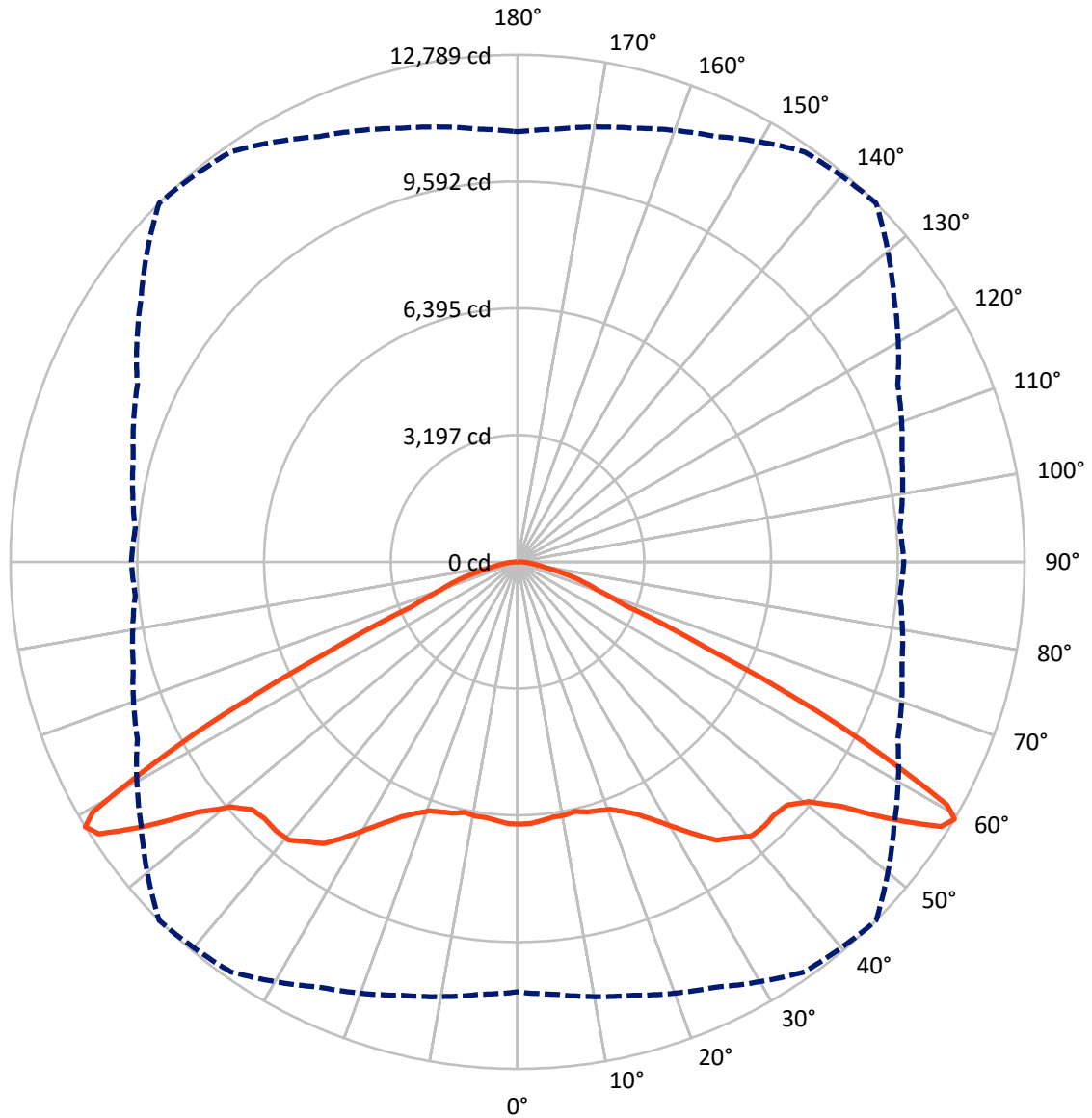
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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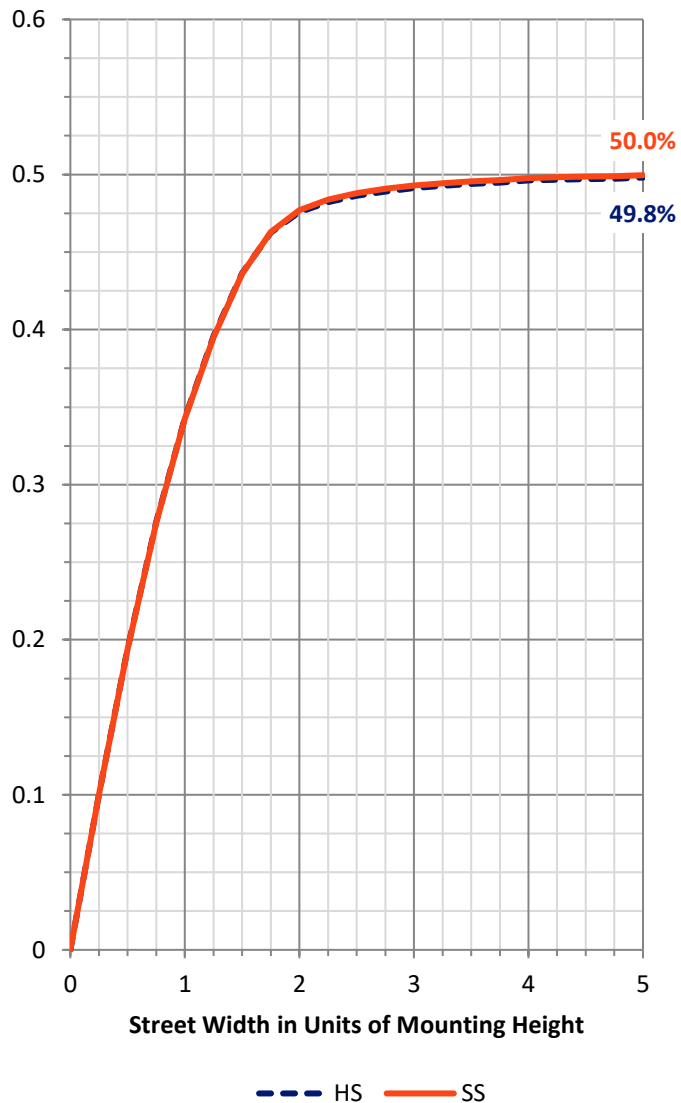
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17133.2	0.0	17133.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17133.2	0.0	17133.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	34266.4	0.0	34266.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.9	1.8
10°-20°	1855.4	5.4
20°-30°	3239.8	9.5
30°-40°	5174.4	15.1
40°-50°	7048.6	20.6
50°-60°	9531.6	27.8
60°-70°	5227.2	15.3
70°-80°	1337.3	3.9
80°-90°	228.1	0.7
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°	34266.4	100.0
0°-180°	34266.4	100.0

Coefficient of Utilization



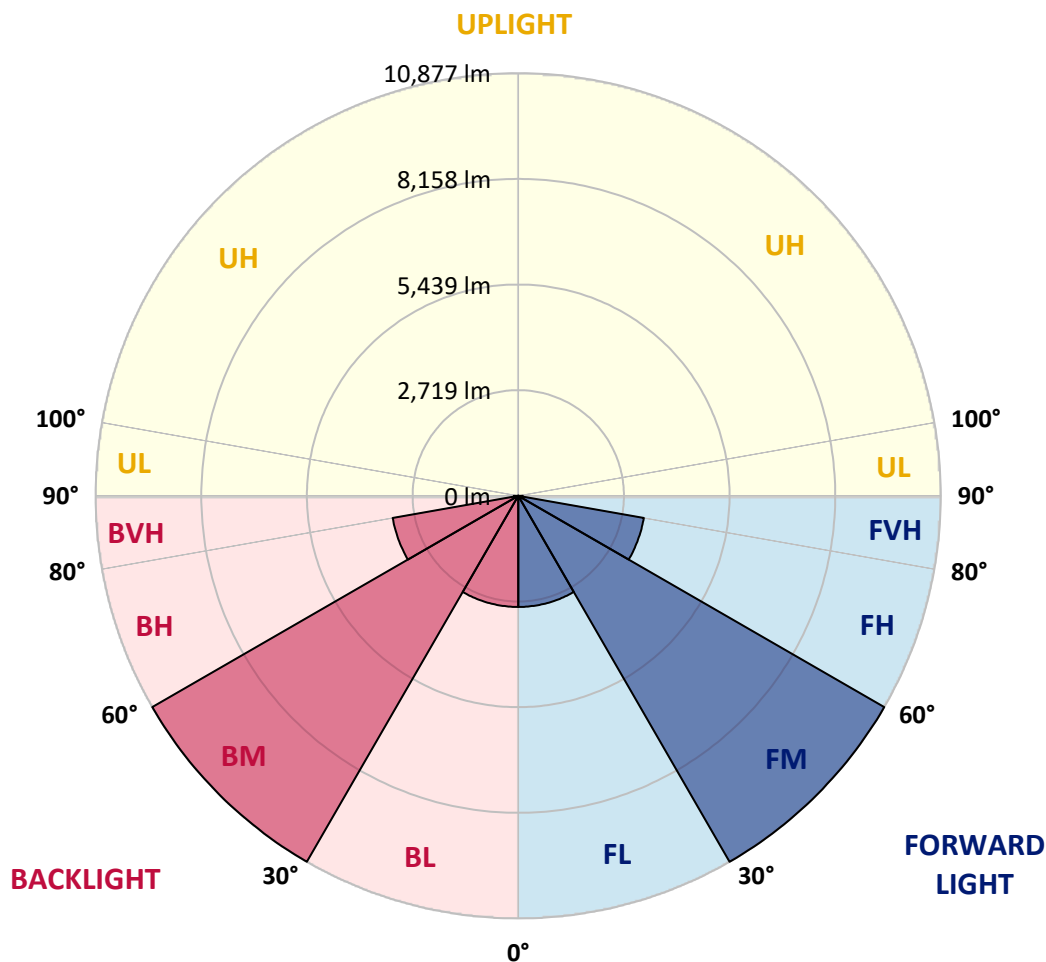
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2859.6	8.3			
FM (30°-60°)	10877.4	31.7			
FH (60°-80°)	3282.2	9.6			G2/5000
FVH (80°-90°)	114.0	0.3			G2/225
BL (0°-30°)	2859.6	8.3	B4/5000		
BM (30°-60°)	10877.4	31.7	B5		
BH (60°-80°)	3282.2	9.6	B4/5000		G2/5000
BVH (80°-90°)	114.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6618.6	6618.6	6618.6	6618.6	6618.6	6618.6	6618.6	6618.6	6618.6	6618.6	6618.6
2.5°	6579.1	6627.4	6592.3	6623.0	6618.6	6605.5	6583.5	6570.3	6552.8	6579.1	6535.2
5°	6552.8	6592.3	6631.8	6579.1	6579.1	6552.8	6539.6	6513.2	6513.2	6508.8	6504.5
7.5°	6596.7	6557.2	6539.6	6548.4	6557.2	6500.1	6539.6	6486.8	6443.0	6473.7	6508.8
10°	6557.2	6574.7	6508.8	6539.6	6491.3	6500.1	6473.7	6508.8	6460.5	6460.5	6460.5
12.5°	6596.7	6548.4	6570.3	6548.4	6535.2	6460.5	6495.7	6456.1	6451.8	6495.7	6456.1
15°	6675.7	6596.7	6579.1	6535.2	6548.4	6548.4	6513.2	6517.6	6469.3	6495.7	6504.5
17.5°	6649.4	6605.5	6592.3	6539.6	6583.5	6596.7	6530.8	6486.8	6517.6	6513.2	6508.8
20°	6671.3	6688.9	6675.7	6684.5	6702.1	6666.9	6605.5	6544.0	6504.5	6561.5	6557.2
22.5°	6811.9	6794.3	6785.6	6776.7	6807.5	6842.6	6759.2	6662.5	6662.5	6702.1	6719.6
25°	6926.1	6921.6	6917.3	6956.8	7062.2	7062.2	6956.8	6833.9	6803.1	6829.5	6807.5
27.5°	7093.0	7141.3	7123.7	7194.0	7347.7	7382.8	7242.3	7097.3	7013.9	6983.2	7022.7
30°	7475.1	7418.0	7431.1	7505.8	7641.9	7756.2	7540.9	7387.2	7273.1	7268.7	7286.2
32.5°	7729.8	7773.7	7813.2	7883.5	8098.7	8186.6	7927.4	7677.1	7606.8	7567.3	7580.5
35°	8239.3	8199.7	8191.0	8261.2	8476.4	8621.4	8296.4	8076.7	7984.5	8072.3	8072.3
37.5°	8722.4	8612.6	8529.1	8621.4	8819.0	8836.5	8559.8	8441.3	8393.0	8494.0	8489.6
40°	8950.8	8941.9	8748.7	8801.4	9064.9	9091.3	8832.2	8691.6	8682.8	8814.6	8946.3
42.5°	9187.9	9104.5	8911.2	8946.3	9108.9	9117.6	8871.7	8832.2	8928.8	9056.2	9064.9
45°	9227.4	9157.2	9034.2	8946.3	9064.9	9091.3	8946.3	8972.7	8981.5	9135.2	9135.2
47.5°	9306.5	9297.7	9227.4	9161.6	9183.5	9161.6	9069.3	9108.9	9240.7	9315.3	9280.1
50°	9526.1	9433.9	9504.1	9447.1	9451.4	9512.9	9429.4	9469.0	9442.7	9376.7	9332.8
52.5°	10009.2	9965.3	10026.8	10066.3	10110.3	10250.7	10154.1	9943.3	9745.7	9570.0	9565.6
55°	10716.3	10747.1	10865.6	11067.6	11238.9	11463.0	10997.4	10492.3	10176.1	9899.4	9917.0
57.5°	11383.9	11362.0	11524.4	11985.5	12486.3	12600.4	11686.9	10966.6	10452.8	10277.1	10202.4
59°	10848.1	10953.5	11322.4	11836.2	12622.4	12789.3	11594.7	10580.1	10035.6	9679.8	9741.3
60°	10004.8	10044.3	10373.7	11089.6	12152.5	12438.0	10975.4	9982.9	9258.2	9051.8	9144.0
62.5°	7071.0	7040.3	7277.4	7861.6	8814.6	9201.1	8160.2	7461.9	7005.1	6776.7	6829.5
65°	3759.5	3900.0	3996.7	4361.2	4866.3	5274.7	4844.3	4541.2	4286.5	4097.7	4093.3
67.5°	2538.6	2520.9	2542.9	2626.3	2797.7	2911.8	2903.1	2749.3	2727.4	2692.3	2731.8
70°	2138.8	2130.1	2090.5	2090.5	2125.7	2152.1	2182.8	2200.4	2235.5	2279.4	2275.0
72.5°	1734.8	1712.9	1686.5	1673.3	1717.3	1730.4	1770.0	1787.5	1818.3	1813.9	1853.4
75°	1146.3	1146.3	1177.0	1212.2	1225.3	1251.7	1256.1	1308.8	1308.8	1317.6	1282.5
77.5°	641.2	623.7	645.6	680.7	711.5	759.8	808.1	847.7	869.6	860.8	860.8
80°	373.3	373.3	395.3	434.8	474.3	518.3	553.3	584.1	606.1	597.3	579.7
82.5°	232.8	232.8	254.7	294.3	325.0	351.3	399.6	439.2	465.6	456.7	434.8
85°	118.5	118.5	144.9	171.3	210.8	228.4	224.0	206.4	202.0	180.1	180.1
87.5°	30.8	30.8	43.9	48.3	39.5	43.9	43.9	43.9	43.9	43.9	48.3
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)