

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: P648578

Luminaire Tested: **GALN-SA8B-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37547.2 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

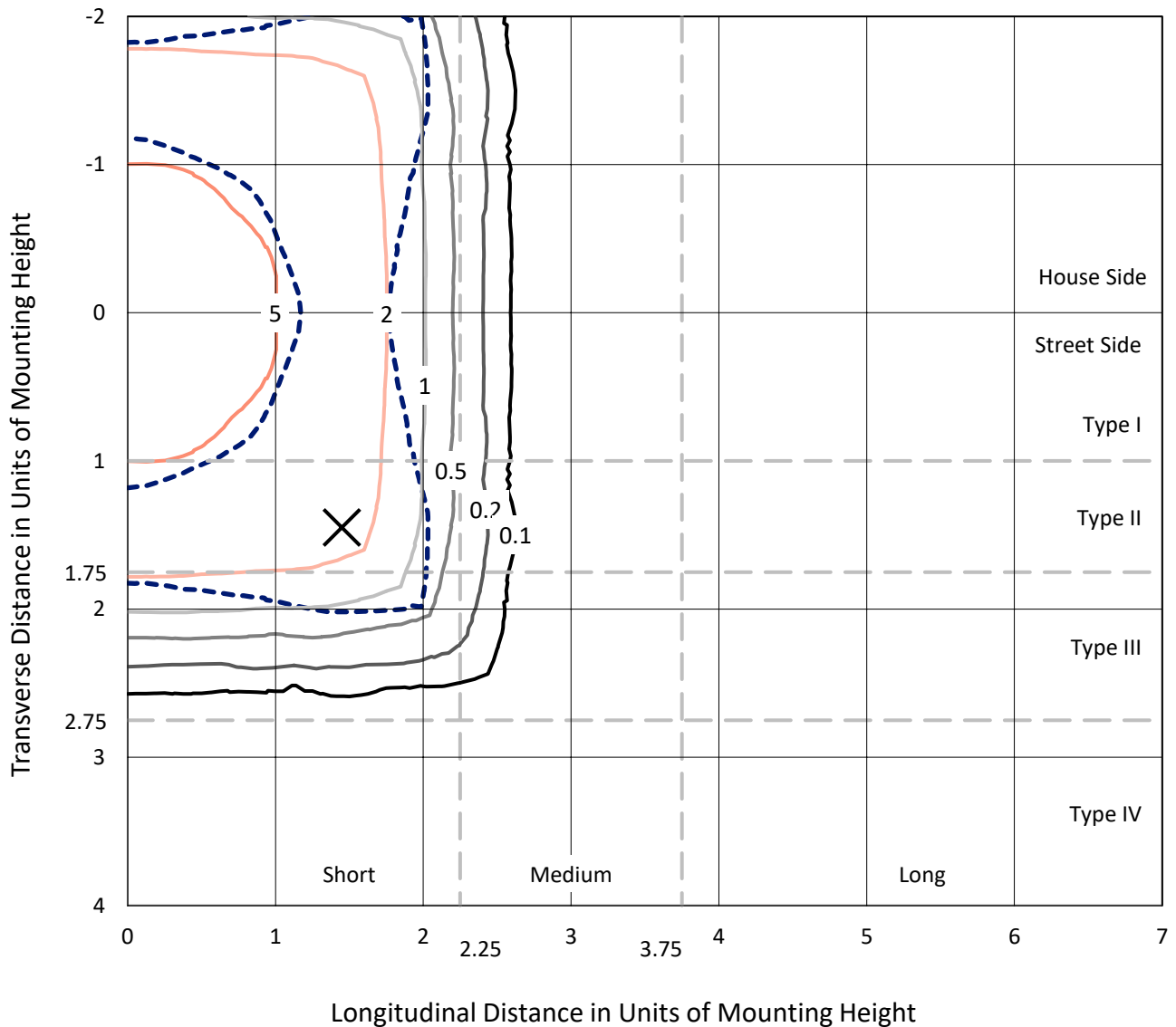
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

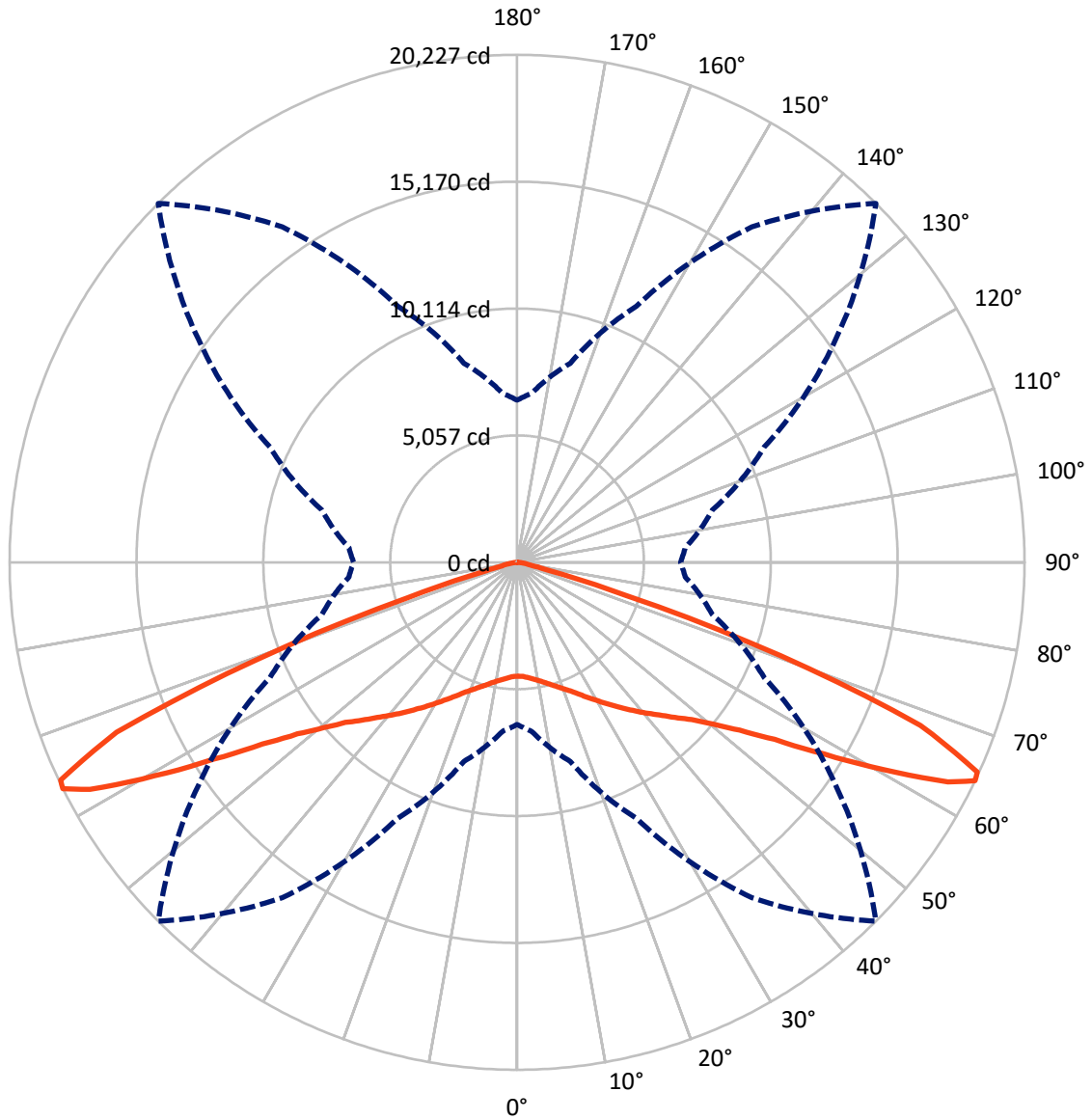
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18773.6	0.0	18773.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18773.6	0.0	18773.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	37547.2	0.0	37547.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.9	1.2
10°-20°	1438.1	3.8
20°-30°	2717.7	7.2
30°-40°	4500.8	12.0
40°-50°	7026.5	18.7
50°-60°	10862.8	28.9
60°-70°	9366.8	24.9
70°-80°	1061.5	2.8
80°-90°	127.2	0.3
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°	37547.2	100.0
0°-180°	37547.2	100.0

Coefficient of Utilization



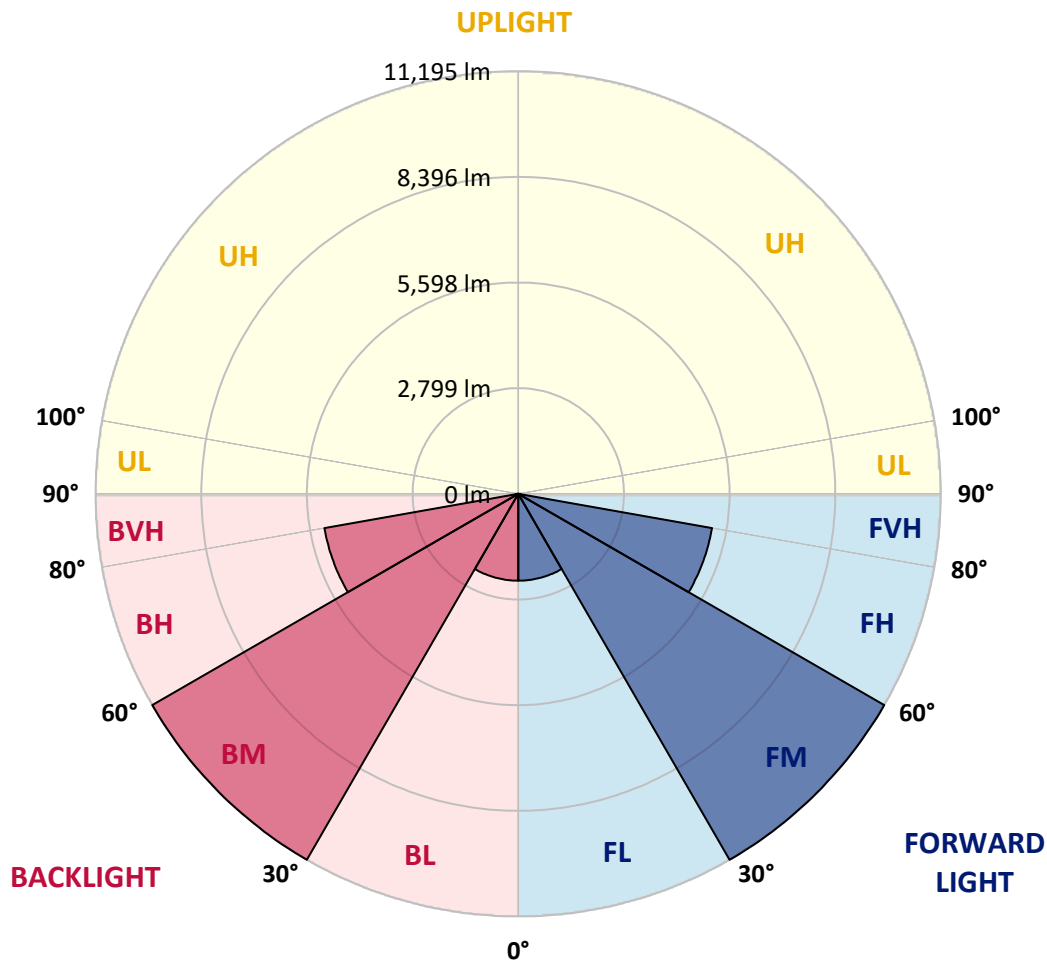
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2300.8	6.1			
FM (30°-60°)	11195.0	29.8			
FH (60°-80°)	5214.2	13.9			G3/7500
FVH (80°-90°)	63.6	0.2			G1/100
BL (0°-30°)	2300.8	6.1	B3/2500		
BM (30°-60°)	11195.0	29.8	B5		
BH (60°-80°)	5214.2	13.9	B5		G3/7500
BVH (80°-90°)	63.6	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4538.2	4538.2	4538.2	4538.2	4538.2	4538.2	4538.2	4538.2	4538.2	4538.2	4538.2
2.5°	4556.1	4566.1	4558.1	4556.1	4554.1	4554.1	4554.1	4556.1	4564.0	4570.1	4566.1
5°	4613.7	4621.7	4617.7	4615.8	4613.7	4615.8	4611.8	4609.8	4615.8	4615.8	4613.7
7.5°	4685.4	4695.3	4691.3	4695.3	4697.3	4699.3	4689.4	4681.4	4679.4	4685.4	4681.4
10°	4782.8	4790.8	4792.7	4794.8	4798.7	4796.7	4784.8	4770.9	4768.9	4766.9	4764.9
12.5°	4892.2	4898.1	4900.2	4908.1	4914.1	4916.1	4902.1	4890.2	4870.3	4874.3	4866.3
15°	5015.5	5027.4	5025.5	5037.4	5053.2	5057.2	5043.3	5023.4	5005.6	4995.6	4989.7
17.5°	5166.6	5174.6	5170.6	5182.5	5202.4	5212.4	5200.5	5174.6	5156.7	5134.8	5122.9
20°	5345.6	5359.6	5363.6	5363.6	5381.4	5391.3	5373.5	5365.5	5337.6	5321.7	5311.8
22.5°	5548.5	5554.4	5566.3	5578.3	5596.2	5592.2	5586.2	5574.3	5548.5	5534.6	5518.7
25°	5777.1	5783.2	5813.0	5838.8	5844.8	5840.8	5832.9	5826.9	5803.0	5771.2	5759.3
27.5°	6043.7	6055.6	6095.3	6119.2	6119.2	6121.2	6105.3	6125.2	6073.5	6035.7	6031.8
30°	6377.8	6385.7	6419.5	6443.4	6431.5	6421.5	6417.5	6437.4	6381.8	6314.1	6298.2
32.5°	6707.9	6735.8	6765.6	6817.3	6775.5	6757.6	6753.6	6767.5	6703.9	6628.3	6606.5
35°	7061.9	7081.8	7137.4	7181.2	7143.4	7101.7	7119.5	7163.3	7087.7	6986.3	6982.3
37.5°	7453.6	7471.5	7543.1	7588.8	7561.0	7489.5	7519.3	7571.0	7495.4	7370.1	7344.2
40°	7861.3	7899.1	7988.6	8036.3	7990.6	7895.1	7950.8	8006.5	7938.9	7793.7	7736.0
42.5°	8318.7	8378.4	8507.7	8531.5	8444.0	8314.8	8412.2	8501.7	8454.0	8286.9	8265.0
45°	8853.7	8889.5	9048.6	9100.3	8979.0	8817.9	8939.2	9102.3	9066.5	8873.6	8831.8
47.5°	9452.3	9486.1	9651.2	9728.7	9575.6	9358.8	9577.6	9790.4	9768.5	9561.7	9541.8
50°	10160.3	10168.2	10396.9	10484.4	10331.3	10144.3	10339.3	10603.8	10516.2	10251.7	10247.7
52.5°	10935.8	10945.8	11234.2	11403.2	11317.7	11106.9	11337.6	11498.7	11275.9	10929.9	10904.1
55°	11608.1	11657.8	12051.5	12501.0	12618.3	12465.1	12534.7	12459.2	11910.3	11425.1	11349.5
57.5°	11882.5	11979.9	12578.5	13417.7	14181.4	14408.1	13871.2	13151.3	12162.9	11476.7	11403.2
60°	11212.2	11317.7	12246.4	13839.4	15788.3	16772.7	15263.3	13268.6	11588.2	10623.7	10508.3
62.5°	8979.0	9008.8	10375.1	12847.0	16725.0	19274.5	15850.0	12268.3	9915.7	8605.1	8559.4
64°	6461.3	6767.5	8215.3	11264.0	16315.3	20227.1	15511.9	10866.2	8054.3	6727.8	6513.0
65°	4832.5	4916.1	6622.4	9619.3	15593.4	20155.4	14855.5	9525.9	6670.1	5148.8	4910.1
67.5°	1825.6	1835.6	2444.1	4794.8	11100.9	17341.4	11337.6	5182.5	2810.0	2032.4	1958.8
70°	757.7	771.6	896.9	1612.8	4770.9	11134.7	5466.9	1869.4	1028.2	833.3	821.4
72.5°	554.8	562.8	600.6	715.9	1467.7	4572.0	1797.8	793.5	602.6	538.9	533.0
75°	435.5	439.5	467.4	527.0	684.1	1266.8	747.8	544.9	459.4	413.7	409.7
77.5°	332.1	342.1	362.0	401.7	459.4	600.6	495.2	407.7	354.0	316.2	310.2
80°	228.7	240.6	278.4	294.3	308.3	389.8	338.1	308.3	276.4	230.7	216.7
82.5°	141.2	149.2	186.9	200.8	194.9	218.8	216.7	220.7	196.8	143.2	133.3
85°	73.6	77.6	101.4	105.4	97.5	89.5	111.3	129.3	121.3	81.5	79.6
87.5°	15.9	17.9	21.8	19.9	21.8	21.8	27.9	41.7	43.8	27.9	25.8
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)