

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: P646924

Luminaire Tested: **GALN-SA5C-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24332.5 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

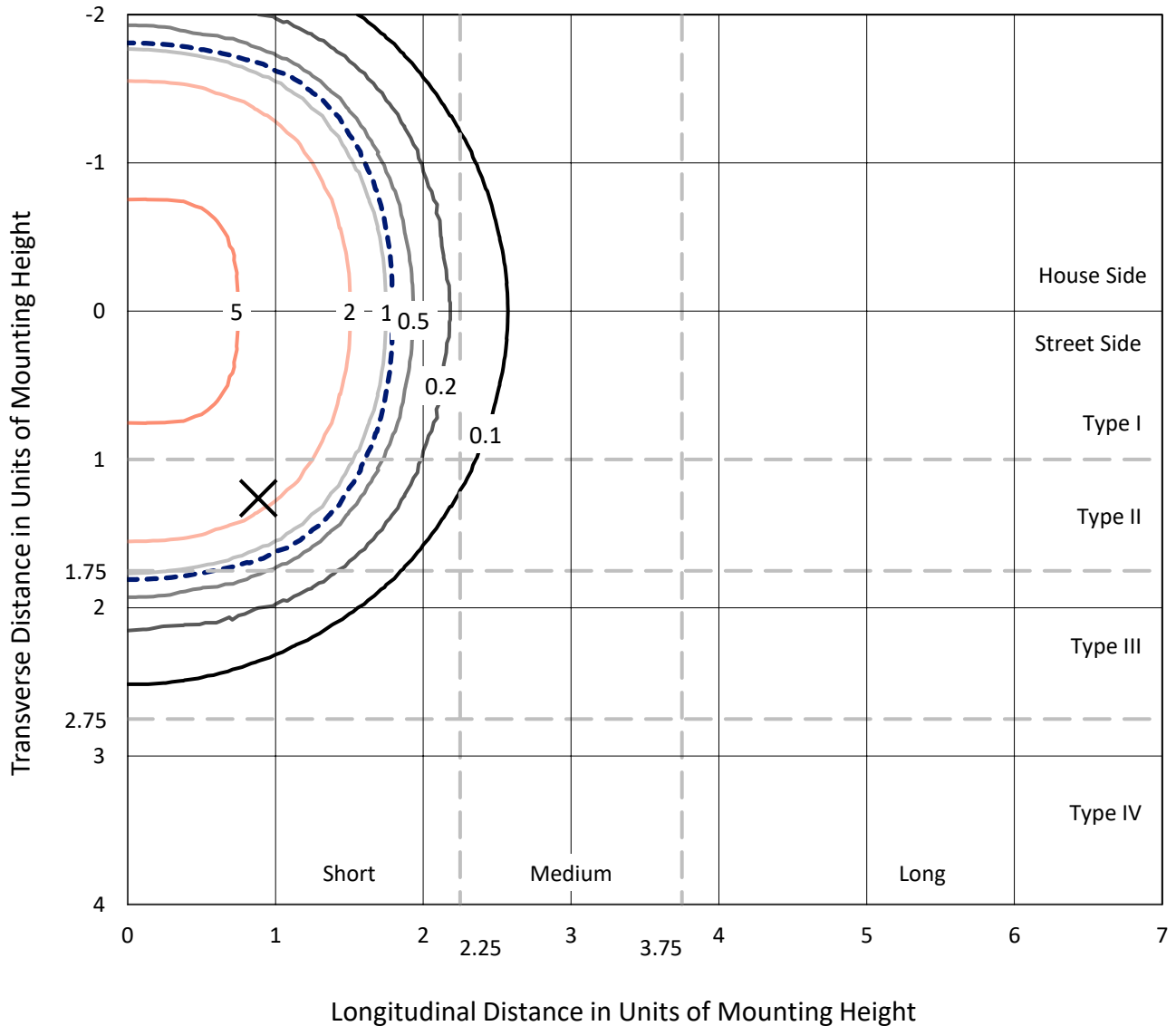
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

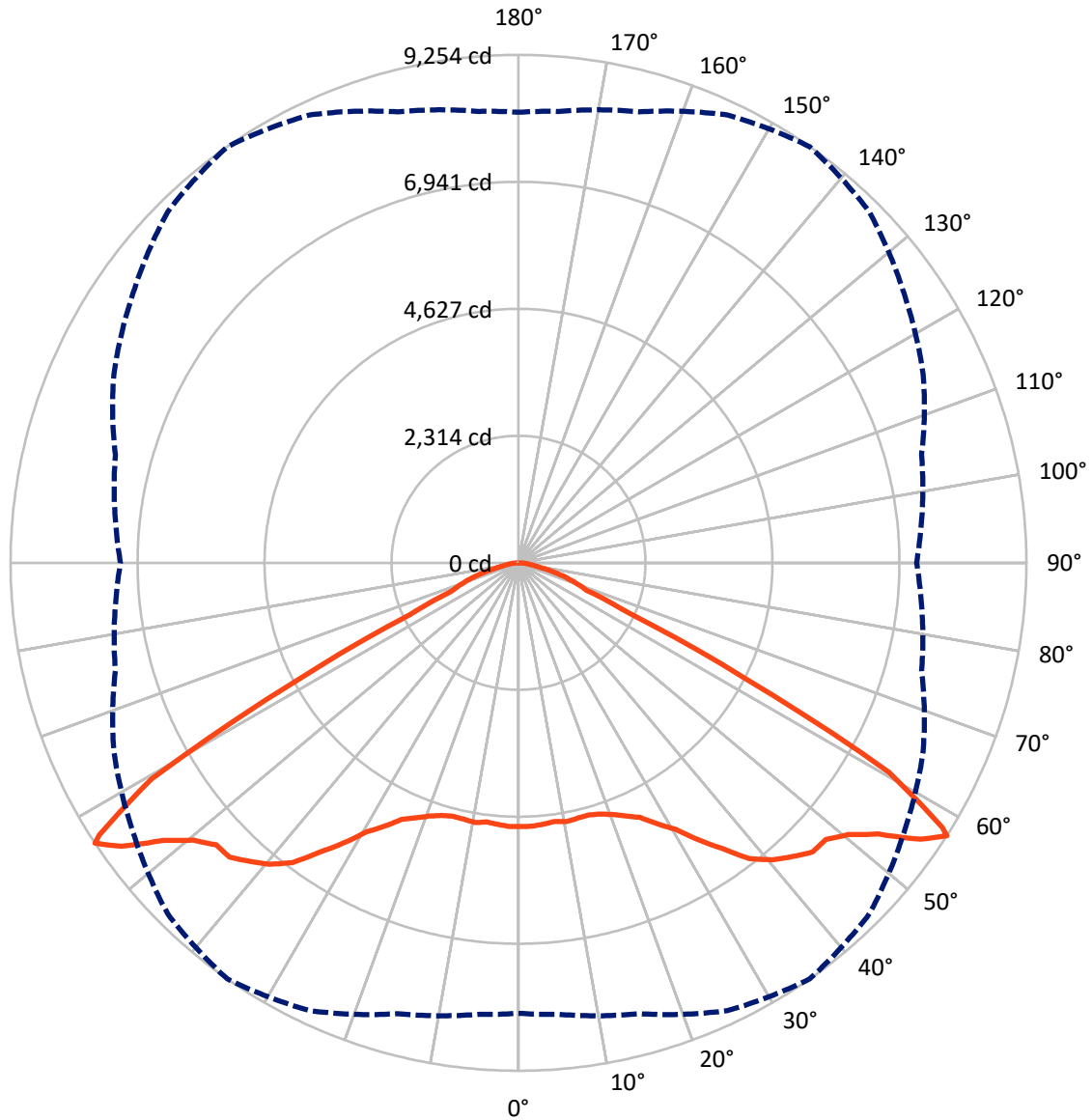
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12166.3	0.0	12166.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12166.3	0.0	12166.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	24332.5	0.0	24332.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.6	1.9
10°-20°	1349.3	5.5
20°-30°	2356.5	9.7
30°-40°	3861.2	15.9
40°-50°	5661.5	23.3
50°-60°	7131.1	29.3
60°-70°	2681.9	11.0
70°-80°	713.1	2.9
80°-90°	122.3	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°	24332.5	100.0
0°-180°	24332.5	100.0

Coefficient of Utilization



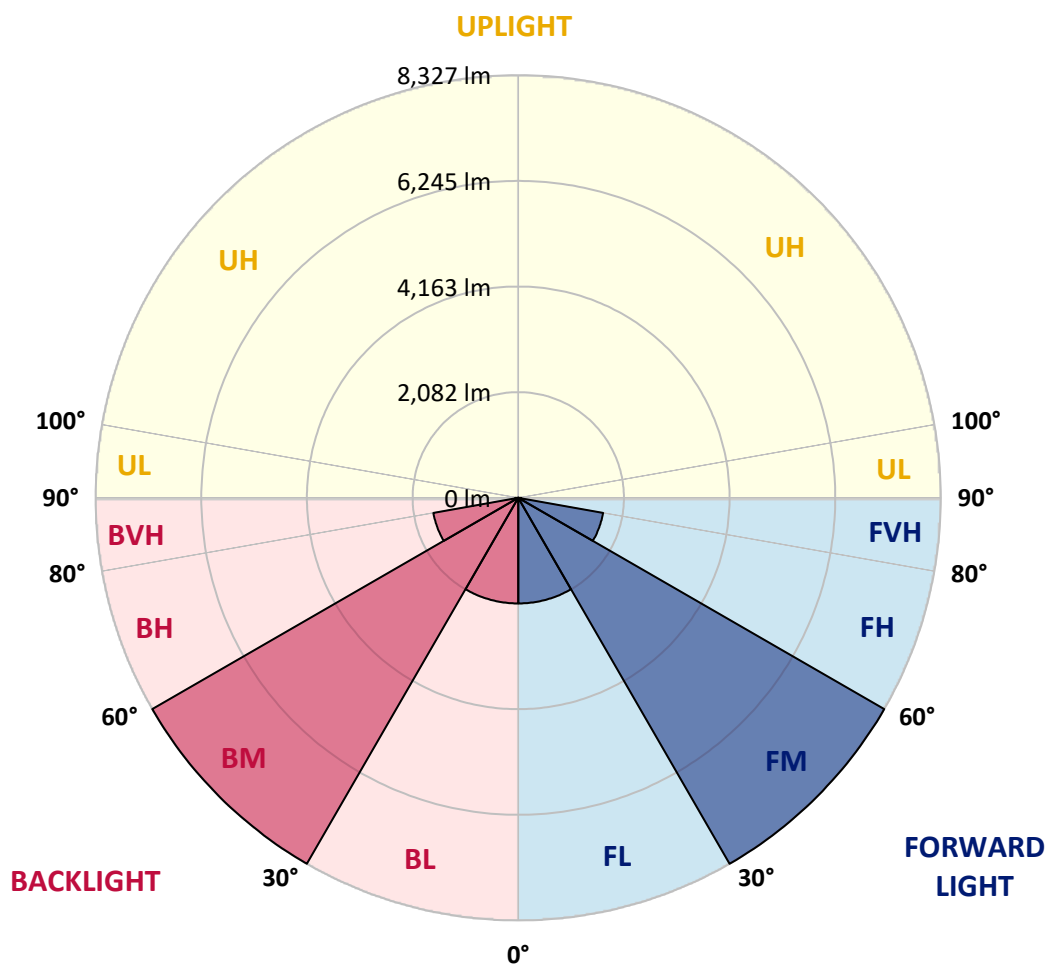
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2080.7	8.6			
FM (30°-60°)	8326.9	34.2			
FH (60°-80°)	1697.5	7.0			G1/1800
FVH (80°-90°)	61.1	0.3			G1/100
BL (0°-30°)	2080.7	8.6	B3/2500		
BM (30°-60°)	8326.9	34.2	B4/8500		
BH (60°-80°)	1697.5	7.0	B3/2500		G1/1800
BVH (80°-90°)	61.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4805.5	4805.5	4805.5	4805.5	4805.5	4805.5	4805.5	4805.5	4805.5	4805.5	4805.5
2.5°	4781.5	4829.5	4808.5	4796.5	4805.5	4790.5	4766.5	4793.5	4787.5	4763.5	4754.5
5°	4769.5	4805.5	4781.5	4805.5	4781.5	4823.5	4811.5	4766.5	4820.5	4769.5	4787.5
7.5°	4760.6	4772.5	4778.5	4766.5	4757.5	4808.5	4781.5	4760.6	4730.6	4721.6	4736.5
10°	4739.6	4769.5	4724.5	4784.5	4796.5	4760.6	4760.6	4721.6	4697.6	4682.6	4733.5
12.5°	4793.5	4742.6	4736.5	4766.5	4775.5	4790.5	4748.5	4727.5	4682.6	4688.6	4679.6
15°	4730.6	4751.6	4754.5	4760.6	4769.5	4805.5	4766.5	4721.6	4703.6	4640.6	4646.6
17.5°	4754.5	4733.5	4754.5	4823.5	4811.5	4838.5	4796.5	4727.5	4685.6	4649.6	4697.6
20°	4796.5	4787.5	4796.5	4880.4	4895.4	4919.4	4883.4	4820.5	4739.6	4697.6	4721.6
22.5°	4841.4	4835.5	4841.4	4922.4	5009.3	5039.3	5003.4	4856.5	4814.5	4736.5	4709.6
25°	4922.4	4928.4	4991.4	5081.3	5138.3	5195.2	5129.3	5024.4	4889.4	4841.4	4784.5
27.5°	5102.3	5117.3	5153.2	5285.2	5384.1	5435.0	5342.1	5198.2	5114.2	5015.3	5000.3
30°	5324.1	5324.1	5387.0	5501.0	5635.9	5713.9	5599.9	5429.0	5327.1	5273.1	5240.1
32.5°	5617.9	5584.9	5608.9	5809.8	6019.6	6085.6	5932.6	5722.8	5560.9	5489.0	5465.0
35°	5869.7	5890.7	5944.7	6160.5	6394.4	6547.2	6307.4	6034.6	5869.7	5803.8	5791.8
37.5°	6196.5	6232.4	6259.5	6556.2	6838.0	6894.9	6664.1	6445.3	6244.4	6190.5	6160.5
40°	6658.2	6634.1	6643.1	6862.0	7116.8	7152.8	6924.9	6769.0	6604.2	6571.2	6571.2
42.5°	7038.9	7011.8	7041.8	7122.8	7317.7	7290.7	7164.8	7050.8	6981.9	6945.9	6981.9
45°	7269.7	7263.7	7317.7	7377.6	7515.5	7425.6	7326.7	7344.6	7278.7	7218.7	7215.7
47.5°	7521.5	7482.5	7548.5	7638.4	7533.5	7491.5	7485.6	7524.5	7503.5	7398.6	7365.6
50°	7644.4	7629.4	7734.3	7839.2	7782.3	7686.4	7707.4	7770.3	7500.5	7359.7	7278.7
52.5°	7974.2	7977.2	8178.0	8235.0	8211.0	8070.1	8115.1	7944.2	7626.4	7428.6	7437.6
55°	8492.8	8471.8	8696.6	8864.5	8891.5	8711.7	8495.8	8256.0	7857.2	7656.4	7596.4
57°	8208.0	8256.0	8504.8	9002.5	9254.3	9041.4	8570.7	8133.1	7602.5	7359.7	7251.7
57.5°	7827.3	7905.2	8336.9	8837.6	9101.4	9083.3	8477.8	7905.2	7431.6	7053.8	7062.8
60°	5734.8	5749.8	6139.5	6933.9	7758.4	7776.3	7038.9	6280.4	5752.8	5342.1	5399.0
62.5°	3024.8	3093.7	3249.6	3888.1	4601.6	4775.5	4328.8	3939.1	3483.5	3171.7	3201.7
65°	1600.8	1591.8	1666.8	1846.6	2197.4	2287.3	2227.4	1918.6	1759.7	1708.7	1711.7
67.5°	1301.0	1316.1	1307.1	1316.1	1340.0	1379.0	1370.0	1382.0	1391.0	1406.0	1403.0
70°	1103.2	1103.2	1109.2	1112.2	1112.2	1130.2	1151.2	1190.2	1193.1	1208.1	1214.1
72.5°	869.4	863.3	872.3	893.3	896.4	911.3	941.3	965.3	974.3	974.3	956.3
75°	590.5	596.6	608.5	626.6	644.6	671.5	695.5	710.5	716.4	707.5	698.5
77.5°	332.8	338.7	347.7	374.7	395.7	419.7	446.7	461.7	476.7	479.7	461.7
80°	197.9	197.9	212.8	233.8	257.8	281.8	305.8	323.8	329.7	329.7	320.8
82.5°	119.9	122.9	134.9	155.9	176.9	191.8	212.8	227.9	239.8	236.9	230.8
85°	63.0	63.0	74.9	92.9	107.9	122.9	122.9	113.9	107.9	92.9	86.9
87.5°	21.0	18.0	24.0	24.0	21.0	24.0	24.0	27.0	27.0	27.0	27.0
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)