

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: P531108

Luminaire Tested: **GALN-SA6B-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531108
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-SA6B-827-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA 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: 21894 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

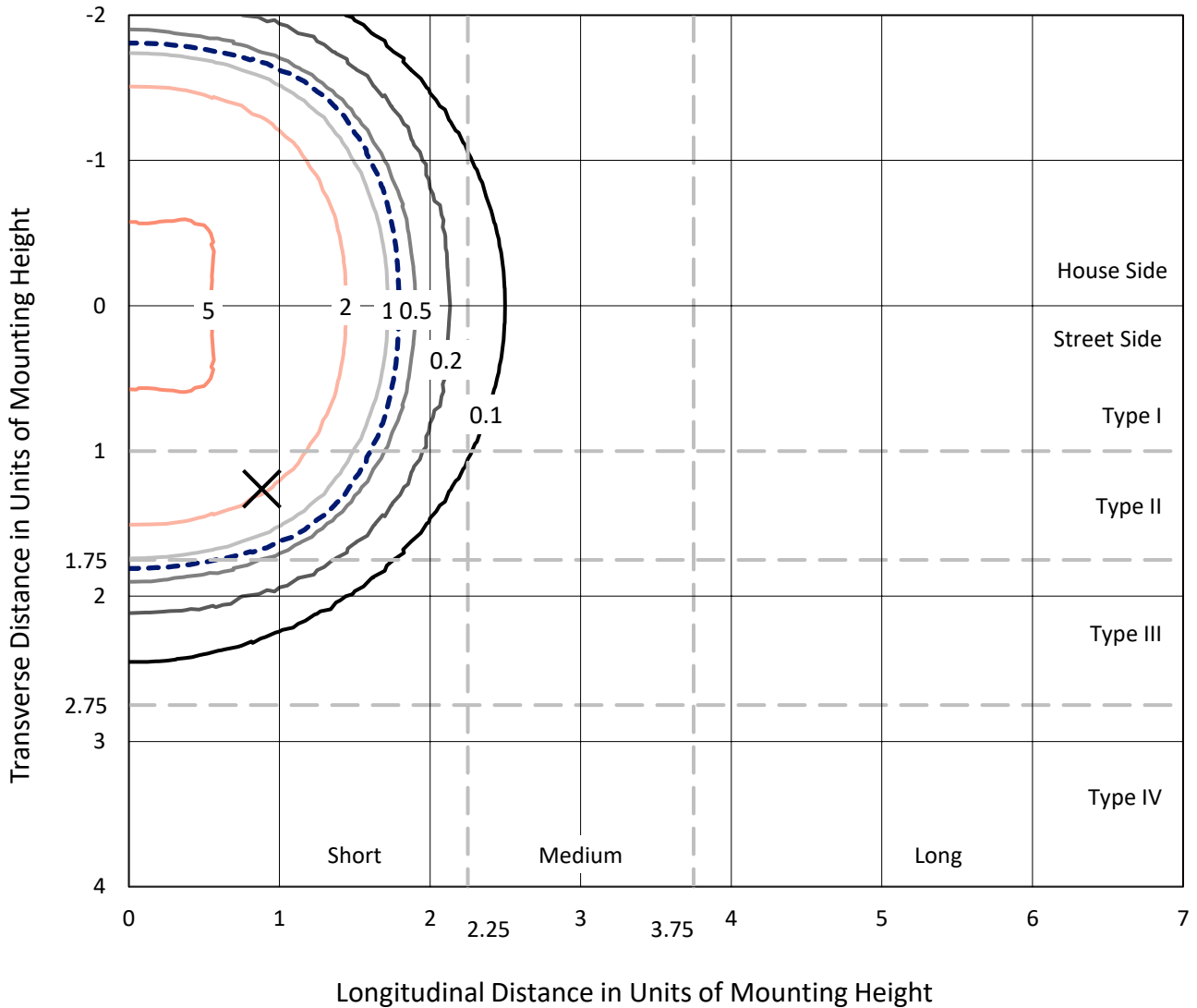
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

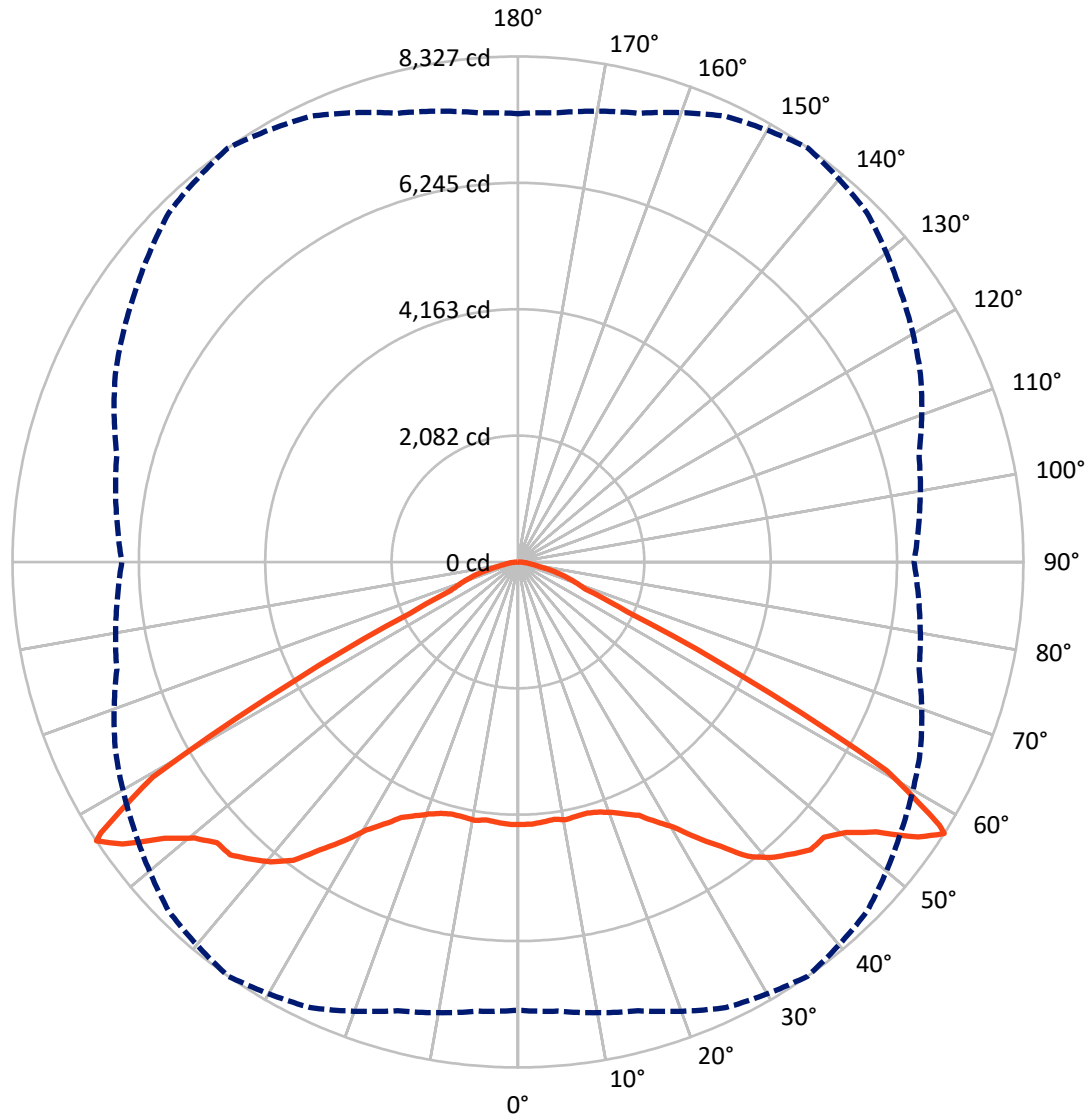
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	10947.0	0.0	10947.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10947.0	0.0	10947.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21894.0	0.0	21894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.9	1.9
10°-20°	1214.1	5.5
20°-30°	2120.4	9.7
30°-40°	3474.3	15.9
40°-50°	5094.1	23.3
50°-60°	6416.4	29.3
60°-70°	2413.2	11.0
70°-80°	641.6	2.9
80°-90°	110.0	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°	21894.0	100.0
0°-180°	21894.0	100.0

Coefficient of Utilization

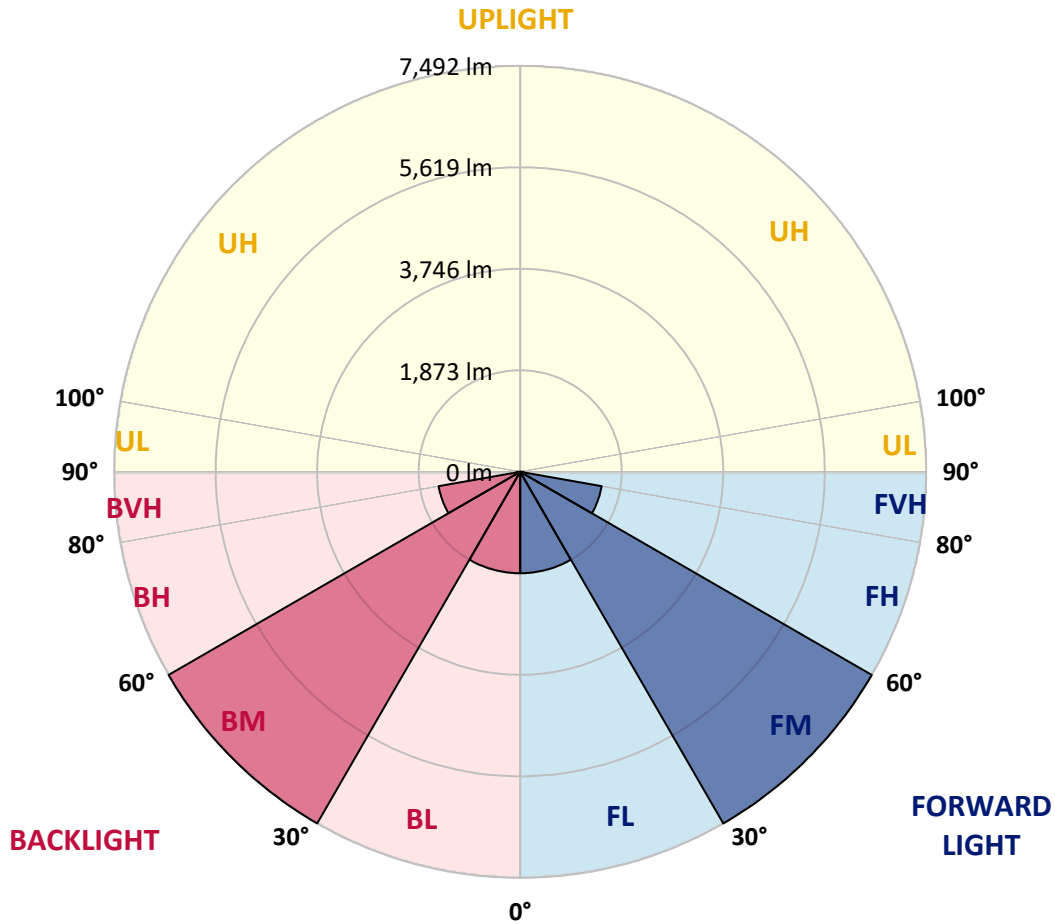


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1872.2	8.6			
FM (30°-60°)	7492.4	34.2			
FH (60°-80°)	1527.4	7.0			G1/1800
FVH (80°-90°)	55.0	0.3			G1/100
BL (0°-30°)	1872.2	8.6	B3/2500		
BM (30°-60°)	7492.4	34.2	B4/8500		
BH (60°-80°)	1527.4	7.0	B3/2500		G1/1800
BVH (80°-90°)	55.0	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°	4323.9	4323.9	4323.9	4323.9	4323.9	4323.9	4323.9	4323.9	4323.9	4323.9	4323.9
2.5°	4302.3	4345.5	4326.6	4315.8	4323.9	4310.4	4288.8	4313.1	4307.7	4286.1	4278.0
5°	4291.5	4323.9	4302.3	4323.9	4302.3	4340.1	4329.3	4288.8	4337.4	4291.5	4307.7
7.5°	4283.4	4294.2	4299.6	4288.8	4280.7	4326.6	4302.3	4283.4	4256.5	4248.4	4261.9
10°	4264.6	4291.5	4251.1	4305.0	4315.8	4283.4	4283.4	4248.4	4226.8	4213.3	4259.2
12.5°	4313.1	4267.3	4261.9	4288.8	4296.9	4310.4	4272.7	4253.8	4213.3	4218.7	4210.6
15°	4256.5	4275.4	4278.0	4283.4	4291.5	4323.9	4288.8	4248.4	4232.2	4175.5	4180.9
17.5°	4278.0	4259.2	4278.0	4340.1	4329.3	4353.6	4315.8	4253.8	4216.0	4183.6	4226.8
20°	4315.8	4307.7	4315.8	4391.3	4404.8	4426.4	4394.0	4337.4	4264.6	4226.8	4248.4
22.5°	4356.3	4350.9	4356.3	4429.1	4507.3	4534.3	4501.9	4369.8	4332.0	4261.9	4237.6
25°	4429.1	4434.5	4491.1	4572.1	4623.3	4674.6	4615.2	4520.8	4399.4	4356.3	4305.0
27.5°	4590.9	4604.4	4636.8	4755.5	4844.5	4890.4	4806.7	4677.3	4601.7	4512.7	4499.2
30°	4790.6	4790.6	4847.2	4949.7	5071.1	5141.2	5038.7	4885.0	4793.2	4744.7	4715.0
32.5°	5054.9	5025.2	5046.8	5227.5	5416.3	5475.7	5338.1	5149.3	5003.6	4938.9	4917.3
35°	5281.5	5300.4	5348.9	5543.1	5753.5	5891.1	5675.3	5429.8	5281.5	5222.1	5211.3
37.5°	5575.5	5607.9	5632.1	5899.2	6152.7	6204.0	5996.3	5799.4	5618.6	5570.1	5543.1
40°	5990.9	5969.3	5977.4	6174.3	6403.6	6436.0	6231.0	6090.7	5942.3	5912.7	5912.7
42.5°	6333.5	6309.2	6336.2	6409.0	6584.3	6560.0	6446.7	6344.2	6282.2	6249.8	6282.2
45°	6541.2	6535.8	6584.3	6638.3	6762.3	6681.4	6592.4	6608.6	6549.2	6495.3	6492.6
47.5°	6767.7	6732.7	6792.0	6872.9	6778.5	6740.8	6735.4	6770.4	6751.5	6657.1	6627.5
50°	6878.3	6864.8	6959.2	7053.7	7002.4	6916.1	6935.0	6991.6	6748.9	6622.1	6549.2
52.5°	7175.0	7177.7	7358.5	7409.7	7388.1	7261.4	7301.8	7148.1	6862.1	6684.1	6692.2
55°	7641.7	7622.8	7825.1	7976.2	8000.4	7838.6	7644.4	7428.6	7069.8	6889.1	6835.2
57°	7385.4	7428.6	7652.5	8100.2	8326.8	8135.3	7711.8	7318.0	6840.6	6622.1	6525.0
57.5°	7042.9	7113.0	7501.4	7951.9	8189.3	8173.1	7628.2	7113.0	6686.8	6346.9	6355.0
60°	5160.1	5173.6	5524.2	6239.0	6980.8	6997.0	6333.5	5651.0	5176.3	4806.7	4858.0
62.5°	2721.7	2783.7	2924.0	3498.5	4140.5	4296.9	3895.0	3544.4	3134.4	2853.8	2880.8
65°	1440.4	1432.3	1499.7	1661.6	1977.2	2058.1	2004.2	1726.3	1583.4	1537.5	1540.2
67.5°	1170.7	1184.2	1176.1	1184.2	1205.7	1240.8	1232.7	1243.5	1251.6	1265.1	1262.4
70°	992.6	992.6	998.0	1000.7	1000.7	1016.9	1035.8	1070.9	1073.6	1087.0	1092.4
72.5°	782.2	776.8	784.9	803.8	806.5	820.0	847.0	868.6	876.6	876.6	860.5
75°	531.4	536.8	547.6	563.8	579.9	604.2	625.8	639.3	644.7	636.6	628.5
77.5°	299.4	304.8	312.9	337.2	356.1	377.6	401.9	415.4	428.9	431.6	415.4
80°	178.0	178.0	191.5	210.4	232.0	253.6	275.1	291.3	296.7	296.7	288.6
82.5°	107.9	110.6	121.4	140.3	159.1	172.6	191.5	205.0	215.8	213.1	207.7
85°	56.6	56.6	67.4	83.6	97.1	110.6	110.6	102.5	97.1	83.6	78.2
87.5°	18.9	16.2	21.6	21.6	18.9	21.6	21.6	24.3	24.3	24.3	24.3
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)