

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: P652428

Luminaire Tested: **GALN-SA6B-840-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652428  
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-SA6B-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 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: 29615 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

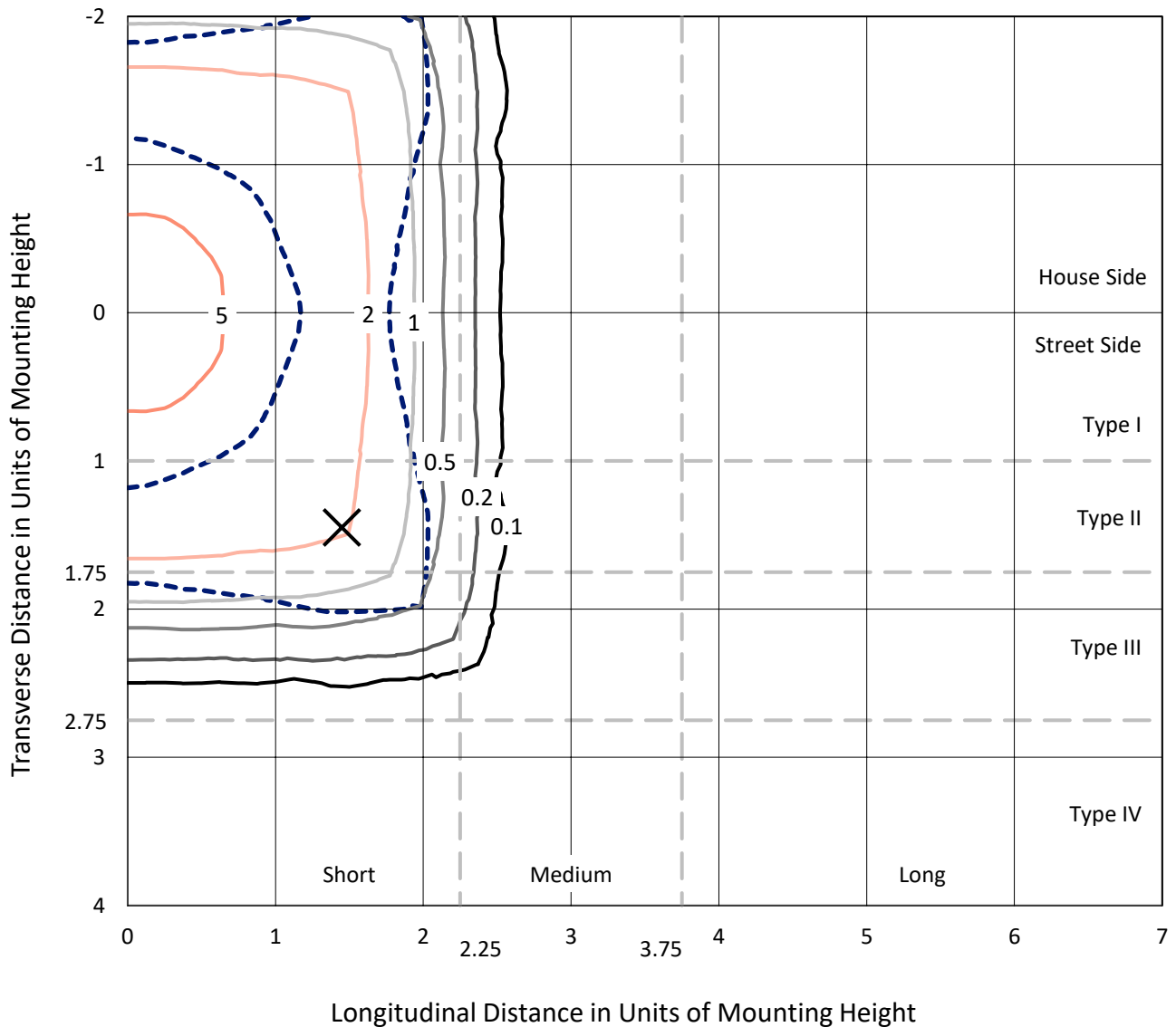
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

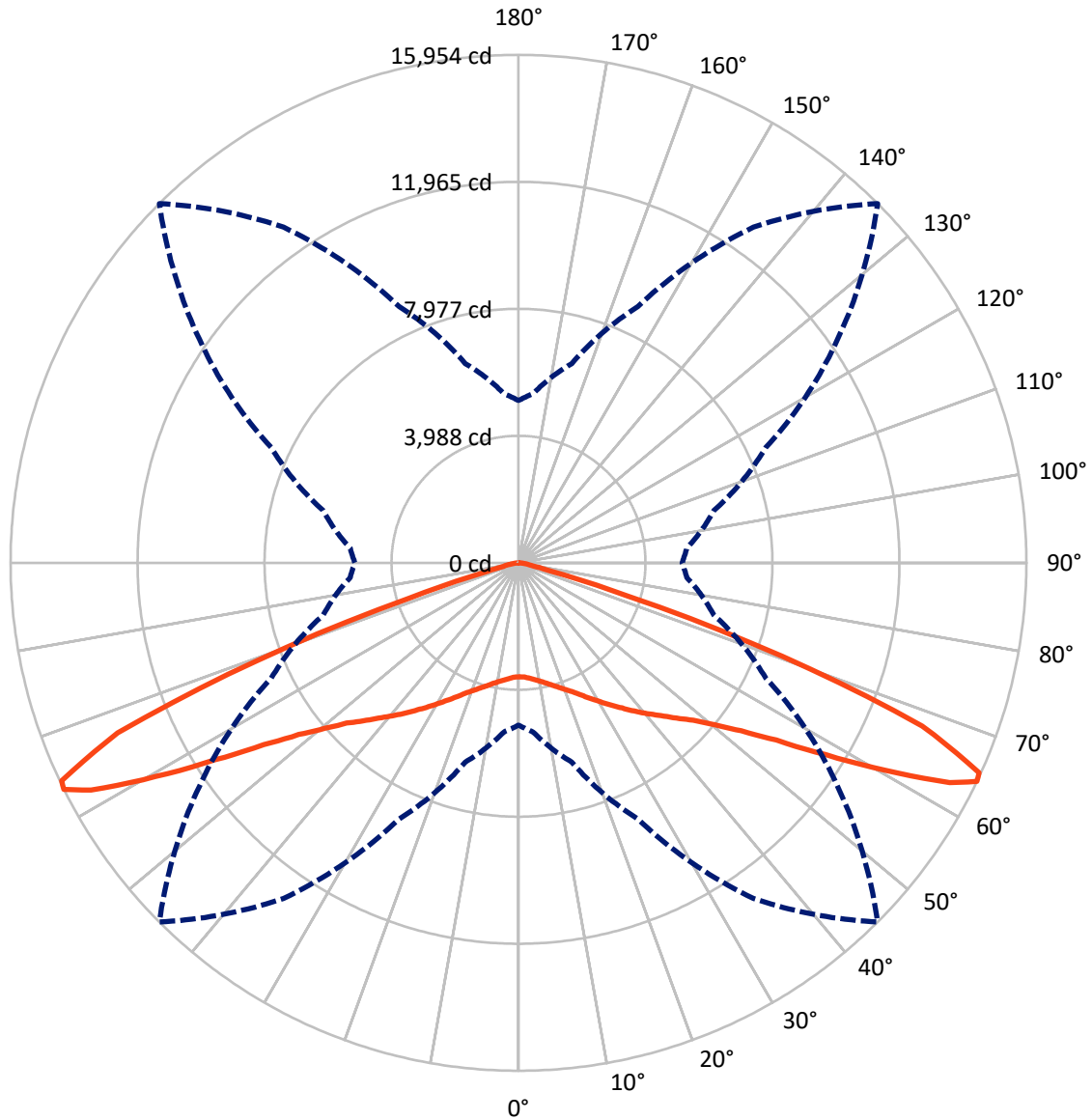
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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
<b>House Side</b>	Lumens	14807.5	0.0	14807.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14807.5	0.0	14807.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29615.0	0.0	29615.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.7	1.2
10°-20°	1134.3	3.8
20°-30°	2143.5	7.2
30°-40°	3550.0	12.0
40°-50°	5542.1	18.7
50°-60°	8567.9	28.9
60°-70°	7388.0	24.9
70°-80°	837.2	2.8
80°-90°	100.3	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°	29615.0	100.0
0°-180°	29615.0	100.0

**Coefficient of Utilization**



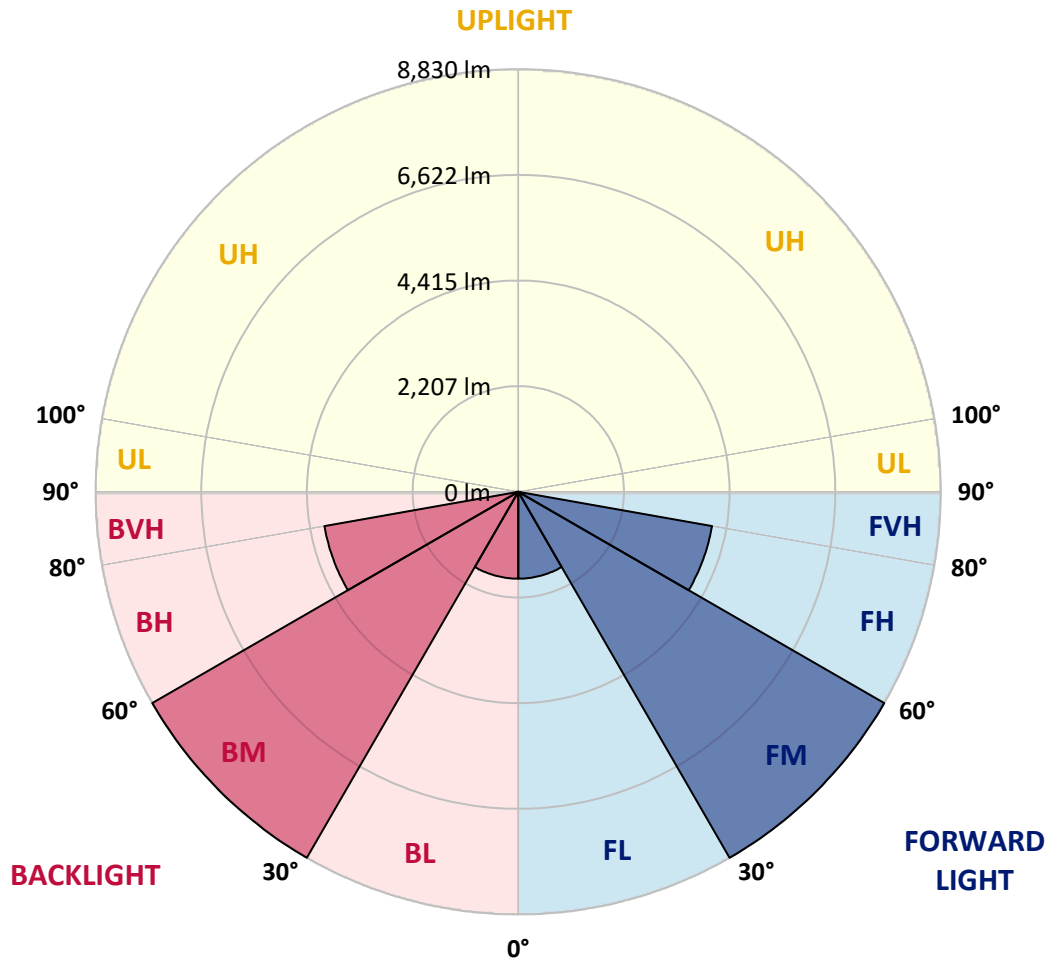
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1814.8	6.1			
FM (30°-60°)	8830.0	29.8			
FH (60°-80°)	4112.6	13.9			G2/5000
FVH (80°-90°)	50.2	0.2			G1/100
BL (0°-30°)	1814.8	6.1	B3/2500		
BM (30°-60°)	8830.0	29.8	B5		
BH (60°-80°)	4112.6	13.9	B4/5000		G2/5000
BVH (80°-90°)	50.2	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5
2.5°	3593.6	3601.4	3595.2	3593.6	3592.0	3592.0	3592.0	3593.6	3599.9	3604.5	3601.4
5°	3639.1	3645.3	3642.2	3640.6	3639.1	3640.6	3637.5	3635.9	3640.6	3640.6	3639.1
7.5°	3695.5	3703.3	3700.2	3703.3	3704.9	3706.5	3698.7	3692.4	3690.8	3695.5	3692.4
10°	3772.4	3778.7	3780.2	3781.8	3784.9	3783.4	3774.0	3763.0	3761.5	3759.9	3758.3
12.5°	3858.7	3863.4	3865.0	3871.2	3875.9	3877.5	3866.5	3857.1	3841.4	3844.5	3838.2
15°	3955.9	3965.3	3963.8	3973.1	3985.8	3988.9	3977.8	3962.2	3948.1	3940.3	3935.5
17.5°	4075.1	4081.4	4078.3	4087.7	4103.4	4111.2	4101.8	4081.4	4067.3	4050.0	4040.6
20°	4216.3	4227.3	4230.4	4230.4	4244.5	4252.3	4238.3	4232.0	4210.0	4197.5	4189.6
22.5°	4376.3	4381.0	4390.4	4399.9	4413.9	4410.8	4406.1	4396.7	4376.3	4365.3	4352.8
25°	4556.7	4561.4	4584.9	4605.3	4610.0	4606.9	4600.6	4595.9	4577.1	4552.0	4542.6
27.5°	4766.9	4776.3	4807.7	4826.5	4826.5	4828.0	4815.5	4831.2	4790.4	4760.6	4757.5
30°	5030.4	5036.7	5063.3	5082.2	5072.7	5064.9	5061.7	5077.5	5033.6	4980.2	4967.6
32.5°	5290.8	5312.8	5336.2	5377.0	5344.1	5330.0	5326.8	5337.8	5287.6	5228.0	5210.8
35°	5569.9	5585.7	5629.6	5664.1	5634.3	5601.3	5615.4	5650.0	5590.4	5510.4	5507.2
37.5°	5879.0	5893.1	5949.6	5985.6	5963.7	5907.2	5930.7	5971.5	5911.9	5813.1	5792.7
40°	6200.5	6230.4	6300.9	6338.6	6302.5	6227.2	6271.2	6315.1	6261.7	6147.2	6101.7
42.5°	6561.3	6608.4	6710.3	6729.2	6660.1	6558.2	6635.1	6705.6	6668.0	6536.3	6518.9
45°	6983.2	7011.5	7137.0	7177.8	7082.1	6955.0	7050.7	7179.4	7151.1	6999.0	6966.0
47.5°	7455.4	7482.0	7612.2	7673.5	7552.7	7381.7	7554.2	7722.1	7704.8	7541.7	7525.9
50°	8013.8	8020.1	8200.4	8269.5	8148.7	8001.3	8155.0	8363.6	8294.6	8086.0	8082.9
52.5°	8625.5	8633.4	8860.9	8994.2	8926.7	8760.4	8942.4	9069.4	8893.7	8620.8	8600.5
55°	9155.7	9194.9	9505.5	9860.0	9952.6	9831.8	9886.7	9827.1	9394.1	9011.4	8951.8
57.5°	9372.2	9449.1	9921.2	10583.1	11185.5	11364.3	10940.7	10372.9	9593.4	9052.2	8994.2
60°	8843.5	8926.7	9659.2	10915.7	12452.9	13229.3	12038.7	10465.5	9140.1	8379.3	8288.3
62.5°	7082.1	7105.6	8183.2	10133.0	13191.7	15202.5	12501.5	9676.5	7820.9	6787.2	6751.1
64°	5096.3	5337.8	6479.7	8884.3	12868.5	15953.9	12234.8	8570.6	6352.7	5306.5	5137.1
65°	3811.6	3877.5	5223.3	7587.2	12299.1	15897.4	11717.1	7513.4	5261.0	4061.0	3872.8
67.5°	1440.0	1447.8	1927.7	3781.8	8755.7	13677.9	8942.4	4087.7	2216.4	1603.1	1545.0
70°	597.6	608.6	707.4	1272.1	3763.0	8782.4	4312.0	1474.4	811.0	657.2	647.8
72.5°	437.7	443.9	473.7	564.6	1157.6	3606.1	1418.0	625.9	475.2	425.0	420.4
75°	343.5	346.7	368.6	415.7	539.6	999.2	589.8	429.8	362.3	326.2	323.1
77.5°	262.0	269.8	285.5	316.9	362.3	473.7	390.6	321.5	279.2	249.4	244.7
80°	180.4	189.8	219.6	232.1	243.1	307.5	266.7	243.1	218.1	182.0	171.0
82.5°	111.3	117.7	147.4	158.4	153.7	172.6	171.0	174.1	155.2	112.9	105.1
85°	58.0	61.1	80.0	83.2	76.9	70.6	87.8	101.9	95.7	64.3	62.7
87.5°	12.5	14.1	17.2	15.7	17.2	17.2	22.0	33.0	34.5	22.0	20.4
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)