

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: P457064

Luminaire Tested: **GALN-SA8B-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457064  
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-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 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: 35251 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

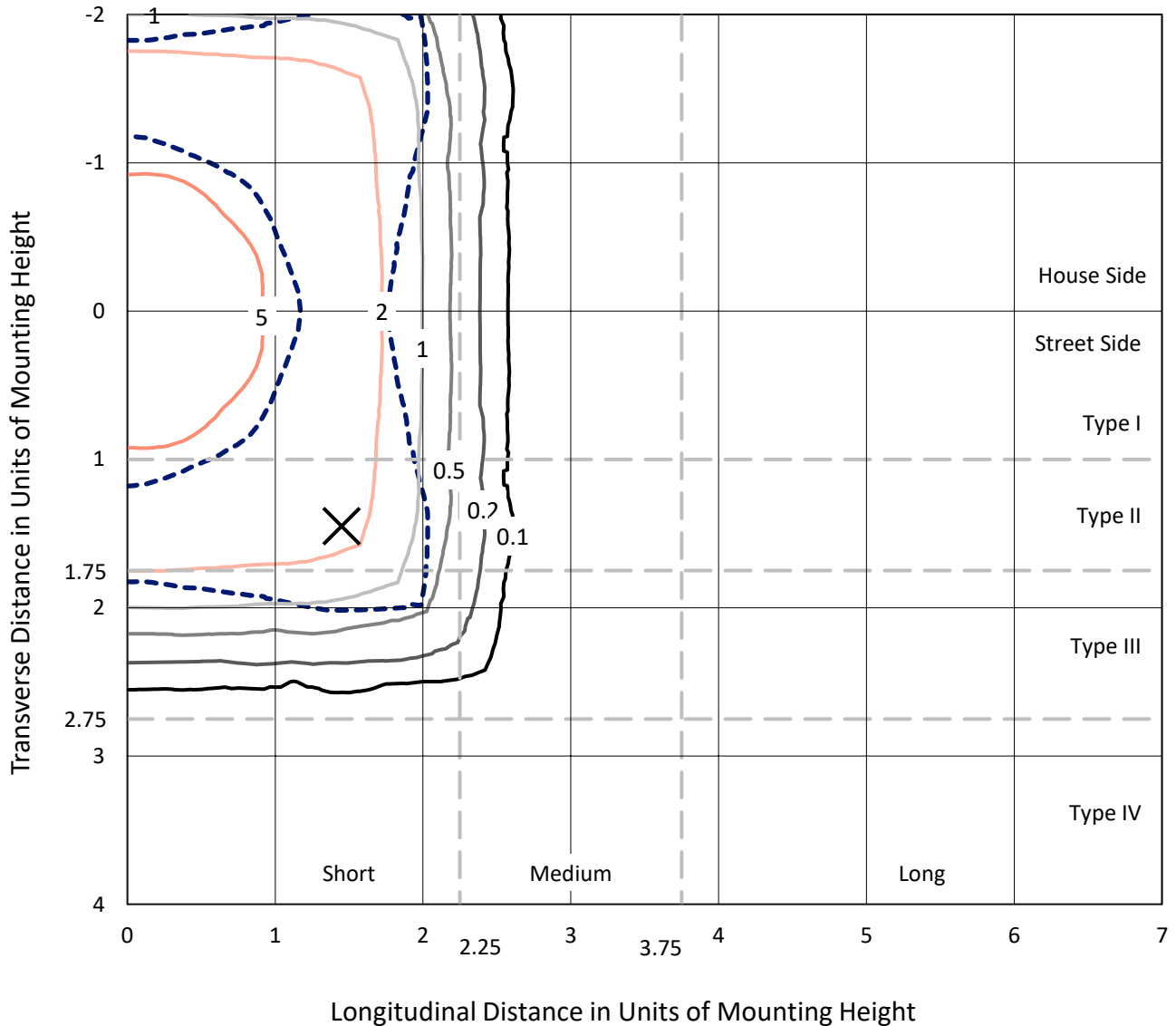
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

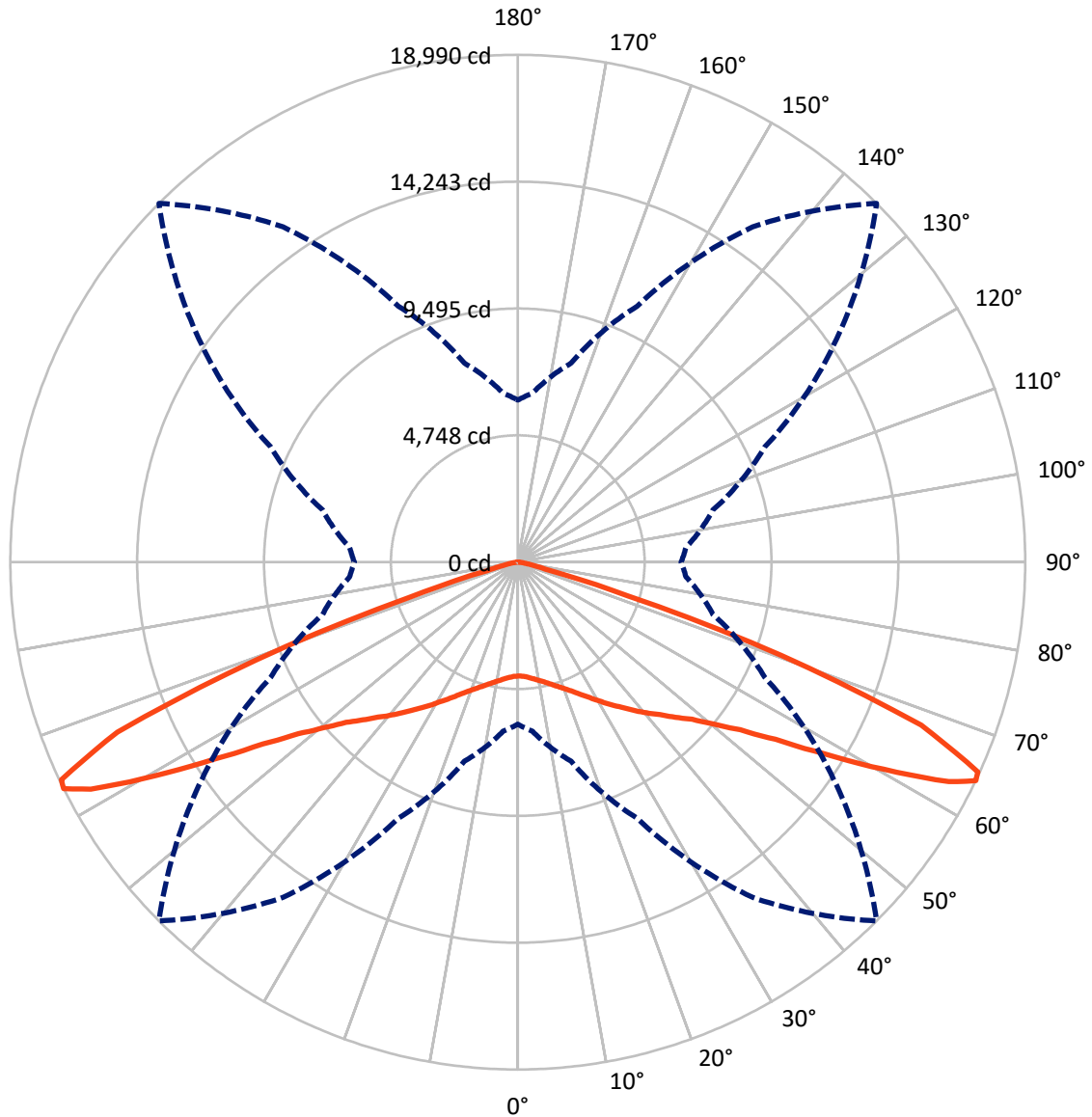
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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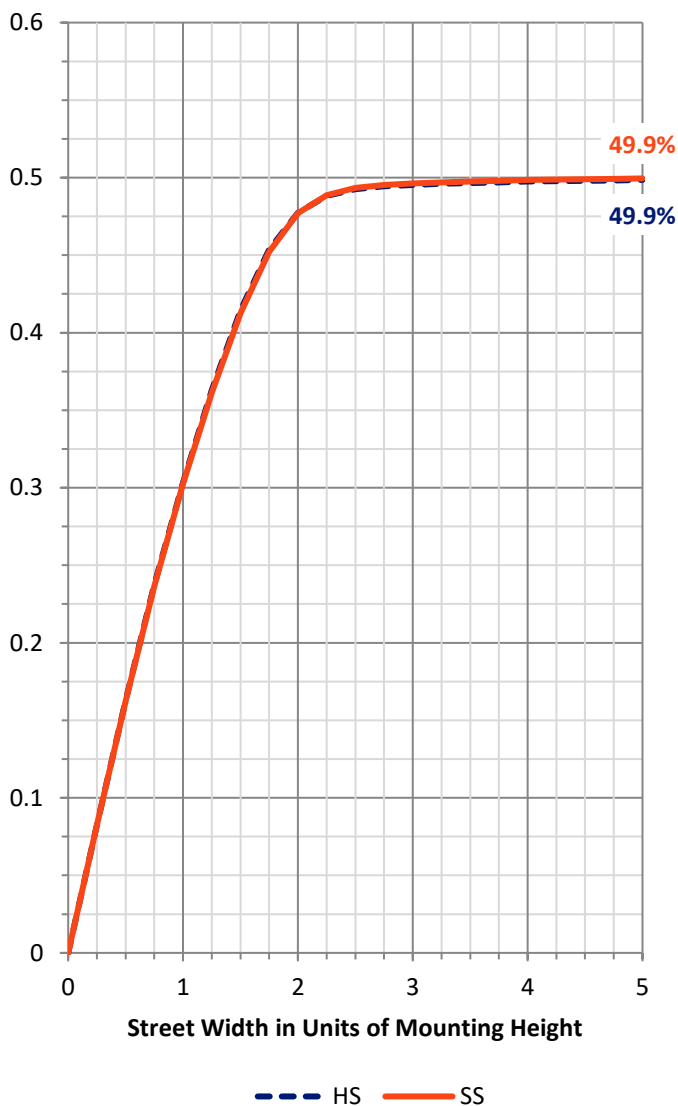
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17625.5	0.0	17625.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17625.5	0.0	17625.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35251.0	0.0	35251.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.6	1.2
10°-20°	1350.2	3.8
20°-30°	2551.5	7.2
30°-40°	4225.5	12.0
40°-50°	6596.8	18.7
50°-60°	10198.4	28.9
60°-70°	8794.0	24.9
70°-80°	996.6	2.8
80°-90°	119.4	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°	35251.0	100.0
0°-180°	35251.0	100.0

**Coefficient of Utilization**



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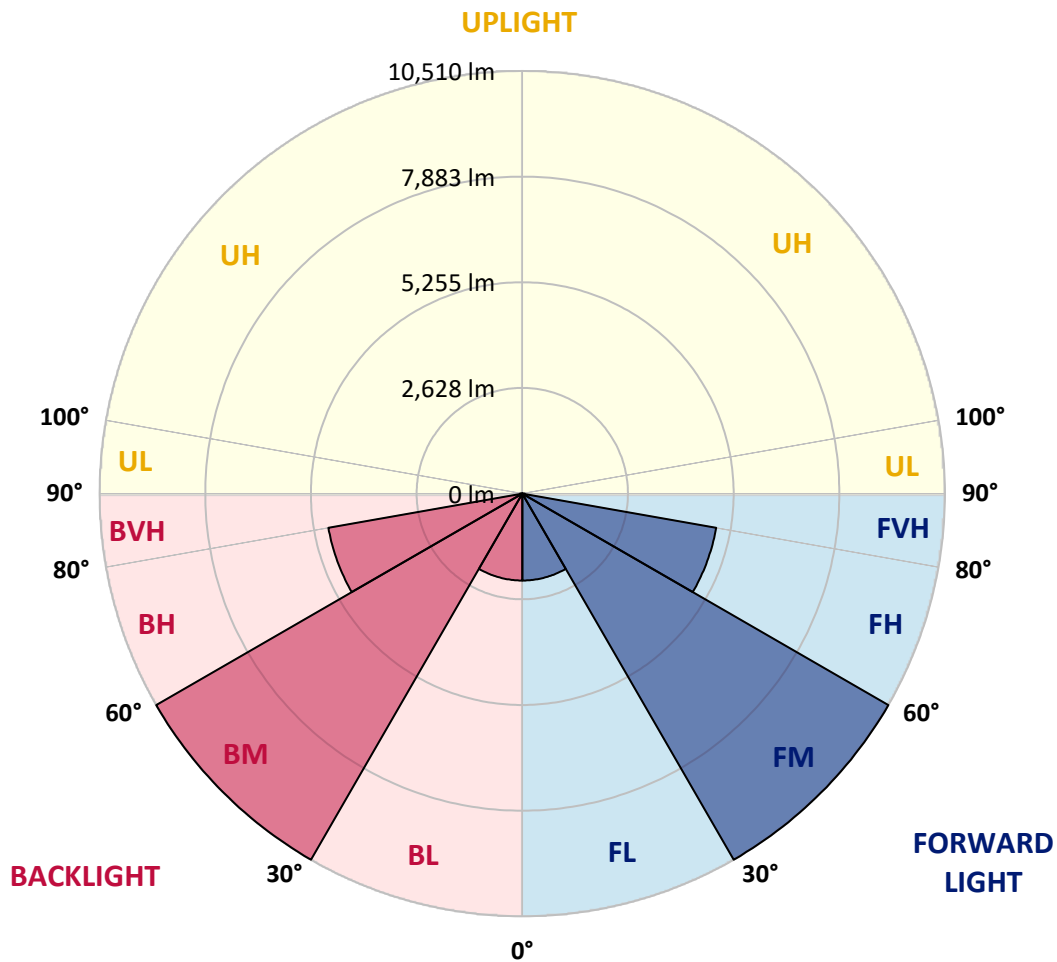
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2160.1	6.1			
FM	(30°-60°)	10510.4	29.8			
FH	(60°-80°)	4895.3	13.9			G2/5000
FVH	(80°-90°)	59.7	0.2			G1/100
BL	(0°-30°)	2160.1	6.1	B3/2500		
BM	(30°-60°)	10510.4	29.8	B5		
BH	(60°-80°)	4895.3	13.9	B4/5000		G2/5000
BVH	(80°-90°)	59.7	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°	4260.7	4260.7	4260.7	4260.7	4260.7	4260.7	4260.7	4260.7	4260.7	4260.7	4260.7
2.5°	4277.5	4286.8	4279.3	4277.5	4275.6	4275.6	4275.6	4277.5	4284.9	4290.5	4286.8
5°	4331.6	4339.1	4335.4	4333.5	4331.6	4333.5	4329.8	4327.9	4333.5	4333.5	4331.6
7.5°	4398.8	4408.2	4404.4	4408.2	4410.0	4411.9	4402.6	4395.1	4393.2	4398.8	4395.1
10°	4490.3	4497.8	4499.7	4501.5	4505.3	4503.4	4492.2	4479.1	4477.3	4475.4	4473.5
12.5°	4593.0	4598.6	4600.5	4608.0	4613.6	4615.4	4602.4	4591.1	4572.5	4576.2	4568.7
15°	4708.8	4720.0	4718.1	4729.3	4744.2	4748.0	4734.9	4716.2	4699.4	4690.1	4684.5
17.5°	4850.7	4858.1	4854.4	4865.6	4884.3	4893.6	4882.4	4858.1	4841.3	4820.8	4809.6
20°	5018.7	5031.8	5035.5	5035.5	5052.3	5061.7	5044.8	5037.4	5011.2	4996.3	4987.0
22.5°	5209.2	5214.8	5226.0	5237.2	5254.0	5250.2	5244.6	5233.4	5209.2	5196.1	5181.1
25°	5423.9	5429.5	5457.5	5481.7	5487.3	5483.6	5476.1	5470.5	5448.1	5418.3	5407.1
27.5°	5674.1	5685.3	5722.6	5745.0	5745.0	5746.9	5731.9	5750.6	5702.1	5666.6	5662.9
30°	5987.7	5995.2	6026.9	6049.3	6038.1	6028.8	6025.1	6043.7	5991.5	5928.0	5913.0
32.5°	6297.7	6323.8	6351.8	6400.3	6361.1	6344.3	6340.6	6353.7	6293.9	6223.0	6202.4
35°	6630.0	6648.7	6700.9	6742.0	6706.6	6667.3	6684.1	6725.2	6654.3	6559.1	6555.3
37.5°	6997.8	7014.6	7081.8	7124.8	7098.6	7031.4	7059.4	7108.0	7037.0	6919.4	6895.1
40°	7380.6	7416.0	7500.1	7544.9	7501.9	7412.3	7464.6	7516.9	7453.4	7317.1	7262.9
42.5°	7810.0	7866.0	7987.4	8009.8	7927.6	7806.3	7897.7	7981.8	7937.0	7780.1	7759.6
45°	8312.2	8345.8	8495.2	8543.8	8429.9	8278.6	8392.5	8545.6	8512.0	8330.9	8291.7
47.5°	8874.2	8906.0	9060.9	9133.8	8990.0	8786.5	8991.9	9191.6	9171.1	8976.9	8958.2
50°	9538.9	9546.4	9761.1	9843.2	9699.5	9524.0	9706.9	9955.3	9873.1	9624.8	9621.1
52.5°	10267.1	10276.4	10547.1	10705.8	10625.6	10427.6	10644.2	10795.5	10586.3	10261.5	10237.2
55°	10898.1	10944.8	11314.5	11736.5	11846.6	11702.9	11768.2	11697.3	11181.9	10726.4	10655.4
57.5°	11155.8	11247.3	11809.3	12597.2	13314.1	13527.0	13022.9	12347.0	11419.1	10774.9	10705.8
60°	10526.6	10625.6	11497.5	12993.0	14822.7	15747.0	14329.8	12457.2	10879.5	9973.9	9865.6
62.5°	8429.9	8457.9	9740.6	12061.3	15702.1	18095.7	14880.6	11518.0	9309.3	8078.9	8035.9
64°	6066.1	6353.7	7712.9	10575.1	15317.5	18990.1	14563.2	10201.7	7561.7	6316.3	6114.7
65°	4537.0	4615.4	6217.4	9031.1	14639.8	18922.9	13947.1	8943.3	6262.2	4833.9	4609.8
67.5°	1714.0	1723.3	2294.6	4501.5	10422.0	16280.9	10644.2	4865.6	2638.2	1908.2	1839.1
70°	711.4	724.4	842.1	1514.2	4479.1	10453.8	5132.6	1755.1	965.3	782.3	771.1
72.5°	520.9	528.4	563.9	672.1	1377.9	4292.4	1687.8	745.0	565.7	506.0	500.4
75°	408.9	412.6	438.8	494.8	642.3	1189.3	702.0	511.6	431.3	388.4	384.6
77.5°	311.8	321.1	339.8	377.2	431.3	563.9	464.9	382.8	332.3	296.9	291.3
80°	214.7	225.9	261.4	276.3	289.4	365.9	317.4	289.4	259.5	216.6	203.5
82.5°	132.6	140.0	175.5	188.6	183.0	205.4	203.5	207.2	184.8	134.4	125.1
85°	69.1	72.8	95.2	99.0	91.5	84.0	104.6	121.4	113.9	76.6	74.7
87.5°	14.9	16.8	20.5	18.7	20.5	20.5	26.1	39.2	41.1	26.1	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)