

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: P532981

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-827-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23204 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

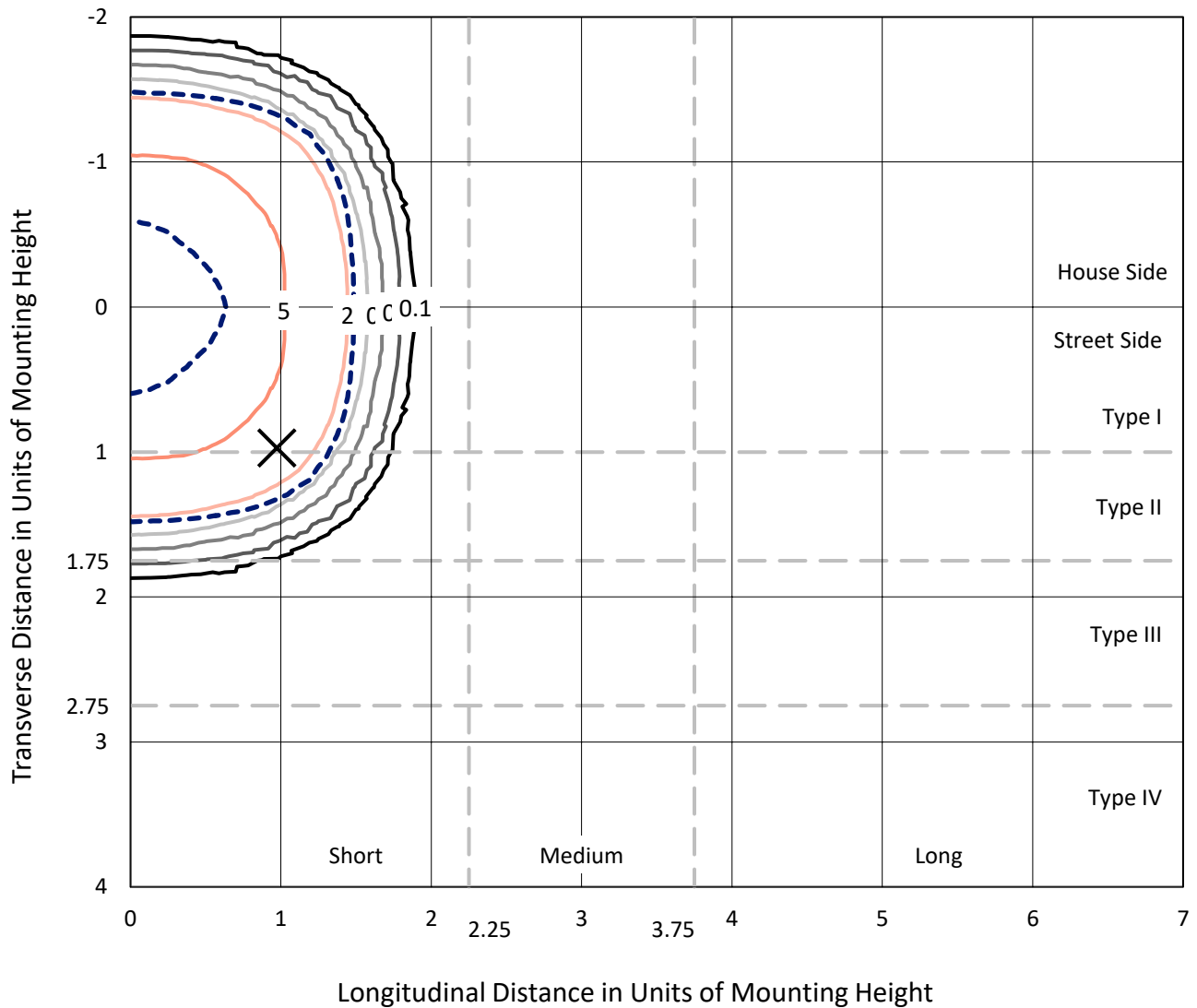
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

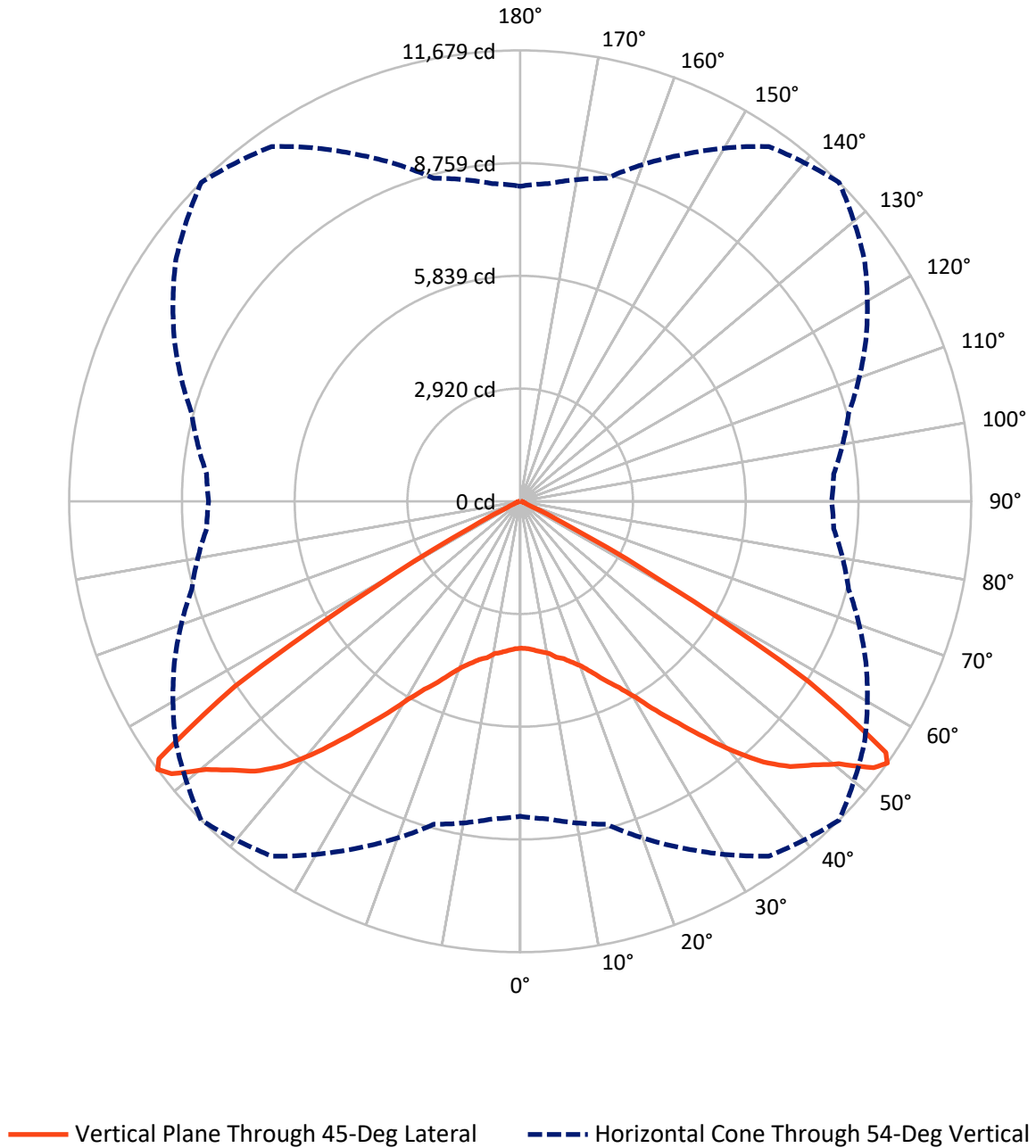
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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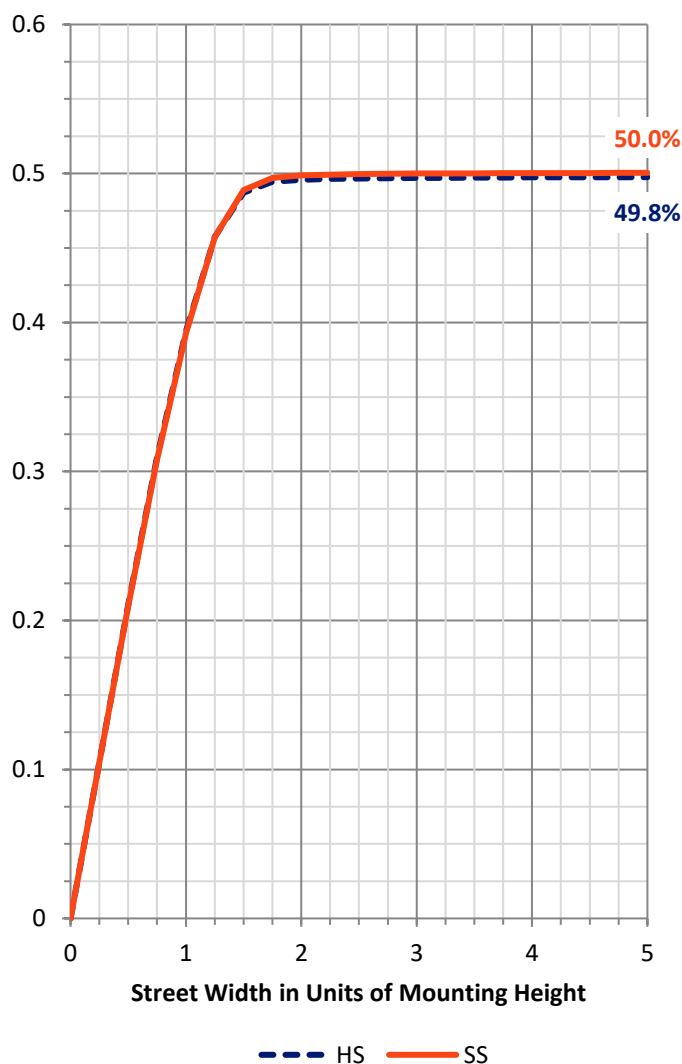
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11602.0	0.0	11602.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11602.0	0.0	11602.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23204.0	0.0	23204.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.4	1.6
10°-20°	1205.9	5.2
20°-30°	2363.6	10.2
30°-40°	4250.2	18.3
40°-50°	7275.6	31.4
50°-60°	7039.8	30.3
60°-70°	602.6	2.6
70°-80°	71.4	0.3
80°-90°	22.4	0.1
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°	23204.0	100.0
0°-180°	23204.0	100.0

**Coefficient of Utilization**



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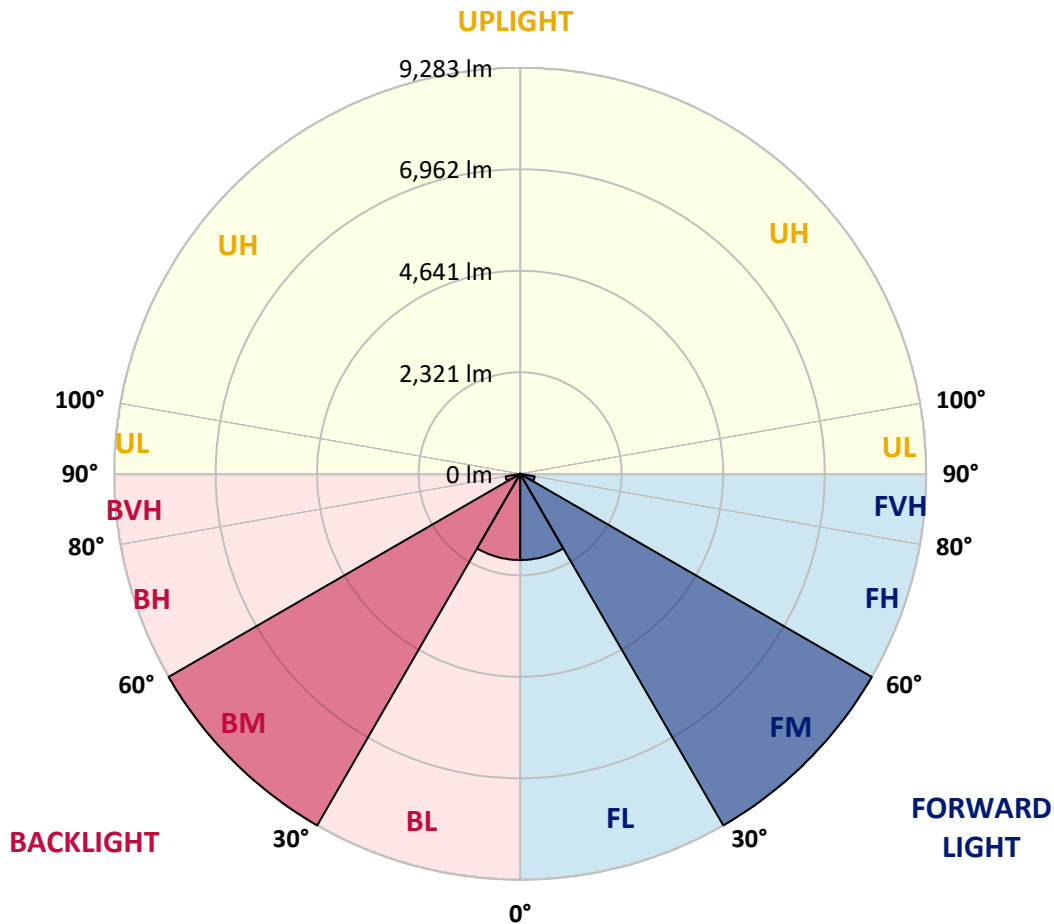
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1971.0	8.5			
FM (30°-60°)	9282.8	40.0			
FH (60°-80°)	337.0	1.5			G0/660
FVH (80°-90°)	11.2	0.0			G1/100
BL (0°-30°)	1971.0	8.5	B3/2500		
BM (30°-60°)	9282.8	40.0	B5		
BH (60°-80°)	337.0	1.5	B1/500		G0/660
BVH (80°-90°)	11.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3804.7	3804.7	3804.7	3804.7	3804.7	3804.7	3804.7	3804.7	3804.7	3804.7	3804.7
2.5°	3823.1	3845.2	3830.5	3841.5	3841.5	3823.1	3834.1	3790.0	3819.4	3797.4	3801.1
5°	3881.9	3878.3	3878.3	3881.9	3867.2	3874.6	3859.9	3845.2	3834.1	3819.4	3863.6
7.5°	3955.5	3955.5	3929.7	3937.1	3929.7	3940.7	3911.3	3881.9	3870.9	3859.9	3852.5
10°	4025.3	4017.9	4006.9	4040.0	4014.3	3999.6	3984.9	3966.5	3926.0	3911.3	3896.6
12.5°	4128.2	4124.6	4109.8	4142.9	4128.2	4142.9	4087.8	4040.0	4032.6	3984.9	4010.6
15°	4249.5	4282.6	4256.9	4256.9	4249.5	4231.2	4209.1	4187.0	4120.9	4102.5	4106.2
17.5°	4407.6	4396.6	4400.3	4400.3	4437.0	4389.2	4345.1	4290.0	4256.9	4245.9	4209.1
20°	4558.3	4573.0	4569.4	4595.1	4617.1	4565.7	4517.9	4510.5	4418.6	4433.3	4381.9
22.5°	4823.0	4812.0	4830.4	4848.7	4834.0	4826.7	4782.6	4727.4	4646.6	4609.8	4602.4
25°	5102.4	5084.0	5050.9	5095.0	5117.1	5150.2	5065.6	5036.2	4911.2	4856.1	4859.8
27.5°	5341.3	5367.1	5403.8	5422.2	5477.3	5466.3	5407.5	5311.9	5216.3	5153.9	5113.4
30°	5668.5	5683.2	5745.7	5771.4	5867.0	5892.7	5800.8	5690.6	5521.5	5440.6	5392.8
32.5°	5969.9	6072.9	6069.2	6197.9	6352.2	6458.9	6293.4	6124.3	5955.2	5859.7	5775.1
35°	6458.9	6440.5	6547.1	6683.1	6933.1	7054.4	6874.3	6679.4	6422.1	6267.7	6201.5
37.5°	6914.7	6922.0	7065.4	7282.3	7569.0	7756.5	7598.4	7278.6	7013.9	6815.4	6723.5
40°	7576.4	7591.1	7738.1	7984.4	8307.9	8510.1	8326.3	8002.8	7649.9	7495.5	7495.5
42.5°	8352.0	8414.5	8510.1	8723.3	9013.7	9238.0	9072.5	8818.9	8462.3	8263.8	8293.2
45°	9149.7	9179.1	9241.6	9557.8	9693.8	9804.1	9649.7	9532.1	9293.1	9050.5	9010.0
47.5°	9896.0	9907.0	10090.8	10190.1	10296.7	10204.8	10304.0	10149.6	9881.3	9646.0	9598.2
50°	10226.8	10208.4	10469.4	10770.9	10851.8	10690.0	10605.5	10502.5	10094.5	9811.4	9686.4
52.5°	9263.7	9370.3	9855.5	10693.7	11326.0	11462.0	10969.4	10495.2	9734.2	9182.8	9098.3
54°	8160.9	8260.1	8660.8	9903.3	11219.4	11678.9	10884.8	9877.6	8804.2	8149.8	8065.3
55°	7069.1	6958.8	7686.7	8954.9	10719.4	11487.7	10550.3	9079.9	7852.1	7252.9	7135.3
57.5°	3826.8	3845.2	4459.1	5657.5	7532.3	8807.9	7778.6	6142.7	4639.2	3966.5	3907.7
60°	1213.1	1242.5	1510.9	2286.5	3598.9	4297.3	3683.4	2466.6	1705.7	1367.5	1312.4
62.5°	378.6	393.3	430.1	639.6	985.2	1407.9	1102.8	661.7	492.6	452.2	459.5
65°	231.6	231.6	235.3	250.0	294.1	341.9	330.8	290.4	279.4	272.0	268.4
67.5°	150.7	147.0	154.4	165.4	172.8	176.5	187.5	198.5	194.8	187.5	187.5
70°	91.9	88.2	95.6	110.3	114.0	121.3	132.3	147.0	143.4	136.0	139.7
72.5°	51.5	51.5	55.1	66.2	77.2	84.5	95.6	106.6	110.3	106.6	106.6
75°	18.4	22.1	29.4	40.4	47.8	58.8	69.8	80.9	91.9	84.5	80.9
77.5°	7.4	7.4	14.7	25.7	36.8	47.8	66.2	77.2	84.5	77.2	69.8
80°	3.7	3.7	11.0	22.1	33.1	44.1	55.1	66.2	69.8	62.5	55.1
82.5°	3.7	3.7	11.0	22.1	33.1	40.4	58.8	66.2	73.5	66.2	55.1
85°	0.0	3.7	11.0	22.1	29.4	33.1	33.1	22.1	18.4	11.0	11.0
87.5°	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)