

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: P532591

Luminaire Tested: **GALN-SA8A-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532591  
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-SA8A-727-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA 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: 21216 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

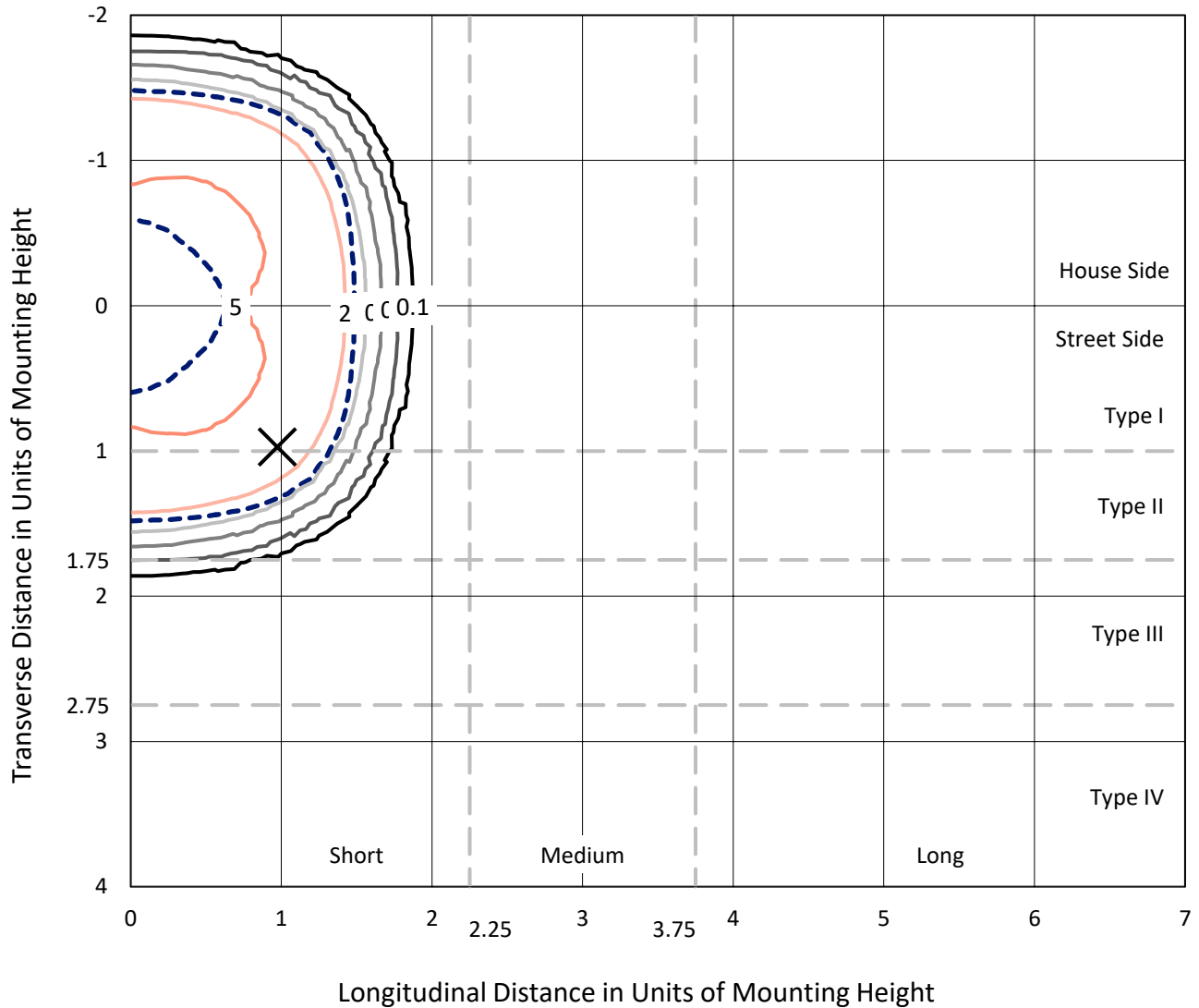
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

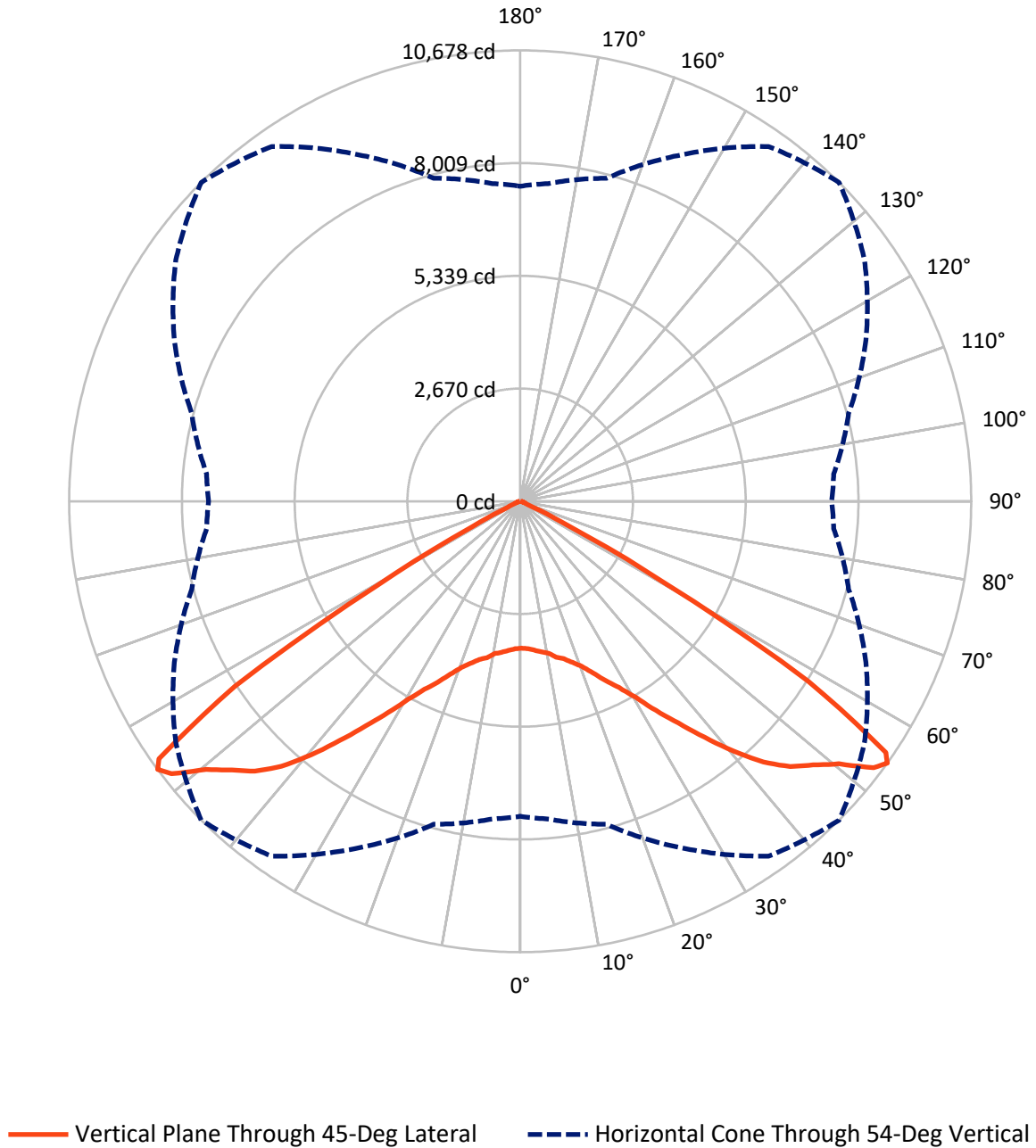
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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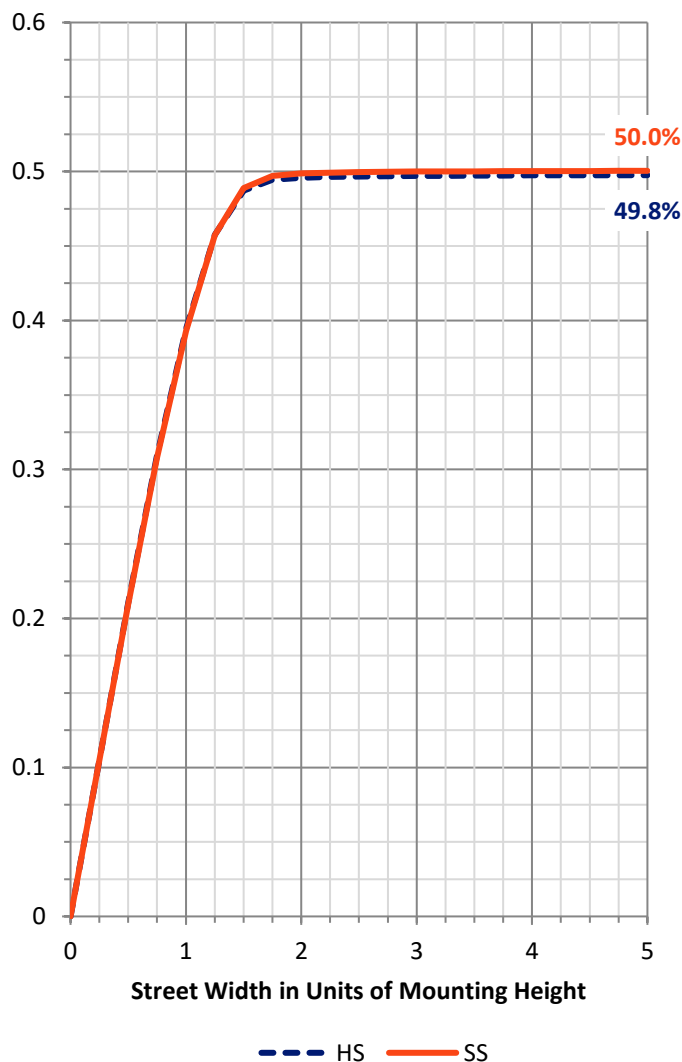
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10608.0	0.0	10608.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10608.0	0.0	10608.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21216.0	0.0	21216.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.5	1.6
10°-20°	1102.6	5.2
20°-30°	2161.1	10.2
30°-40°	3886.1	18.3
40°-50°	6652.2	31.4
50°-60°	6436.7	30.3
60°-70°	551.0	2.6
70°-80°	65.3	0.3
80°-90°	20.5	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°	21216.0	100.0
0°-180°	21216.0	100.0

**Coefficient of Utilization**



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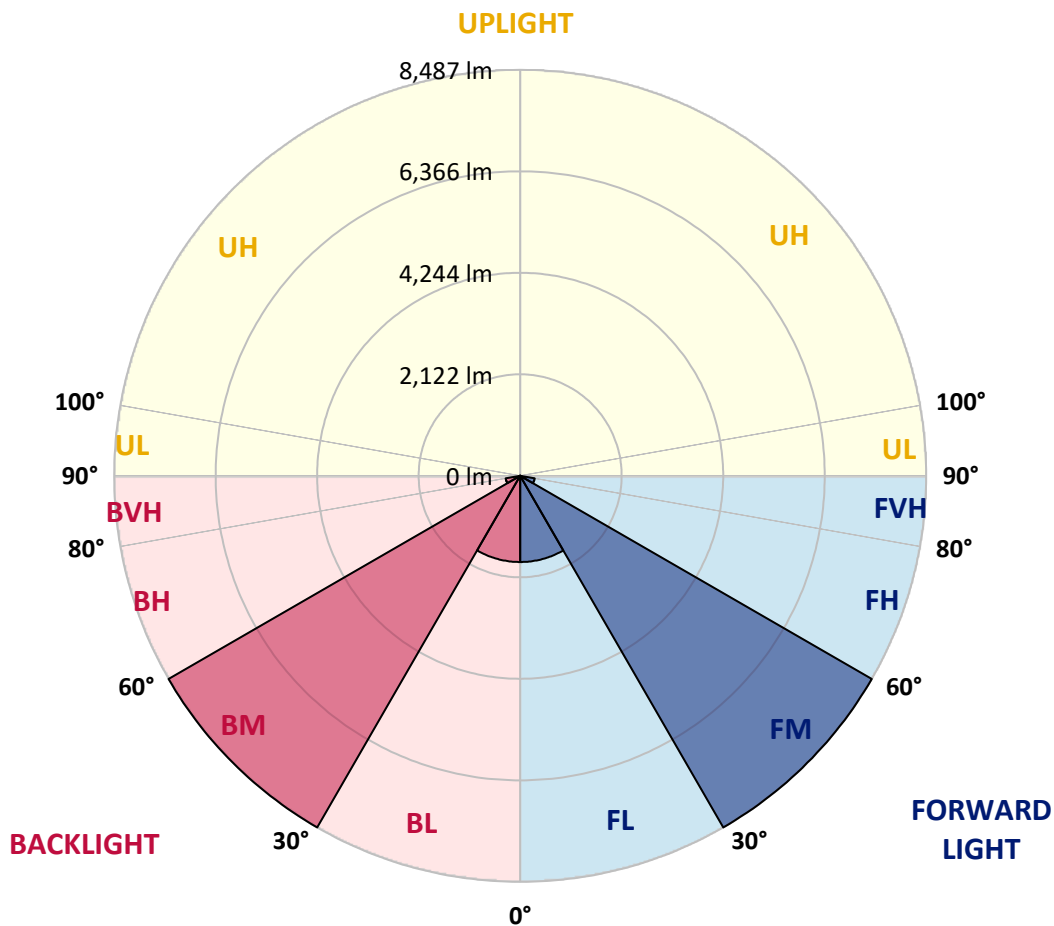
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1802.1	8.5			
FM (30°-60°)	8487.5	40.0			
FH (60°-80°)	308.2	1.5			G0/660
FVH (80°-90°)	10.2	0.0			G1/100
BL (0°-30°)	1802.1	8.5	B3/2500		
BM (30°-60°)	8487.5	40.0	B4/8500		
BH (60°-80°)	308.2	1.5	B1/500		G0/660
BVH (80°-90°)	10.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8	3478.8
2.5°	3495.6	3515.7	3502.3	3512.4	3512.4	3495.6	3505.7	3465.3	3492.2	3472.0	3475.4
5°	3549.3	3546.0	3546.0	3549.3	3535.9	3542.6	3529.2	3515.7	3505.7	3492.2	3532.5
7.5°	3616.6	3616.6	3593.0	3599.8	3593.0	3603.1	3576.2	3549.3	3539.3	3529.2	3522.5
10°	3680.4	3673.7	3663.6	3693.9	3670.3	3656.9	3643.5	3626.7	3589.7	3576.2	3562.8
12.5°	3774.5	3771.2	3757.7	3788.0	3774.5	3788.0	3737.6	3693.9	3687.2	3643.5	3667.0
15°	3885.5	3915.7	3892.2	3892.2	3885.5	3868.7	3848.5	3828.3	3767.8	3751.0	3754.4
17.5°	4030.0	4019.9	4023.3	4023.3	4056.9	4013.2	3972.8	3922.4	3892.2	3882.1	3848.5
20°	4167.8	4181.2	4177.9	4201.4	4221.6	4174.5	4130.8	4124.1	4040.1	4053.5	4006.5
22.5°	4409.8	4399.7	4416.5	4433.3	4419.9	4413.2	4372.8	4322.4	4248.5	4214.8	4208.1
25°	4665.2	4648.4	4618.2	4658.5	4678.7	4708.9	4631.6	4604.7	4490.5	4440.0	4443.4
27.5°	4883.7	4907.2	4940.9	4957.7	5008.1	4998.0	4944.2	4856.8	4769.4	4712.3	4675.3
30°	5182.9	5196.3	5253.4	5277.0	5364.4	5387.9	5303.9	5203.0	5048.4	4974.5	4930.8
32.5°	5458.5	5552.6	5549.2	5666.9	5808.0	5905.5	5754.2	5599.6	5445.0	5357.6	5280.3
35°	5905.5	5888.7	5986.2	6110.5	6339.1	6450.0	6285.3	6107.2	5871.9	5730.7	5670.2
37.5°	6322.3	6329.0	6460.1	6658.4	6920.6	7092.0	6947.4	6655.0	6413.0	6231.5	6147.5
40°	6927.3	6940.7	7075.2	7300.4	7596.1	7781.0	7612.9	7317.2	6994.5	6853.3	6853.3
42.5°	7636.5	7693.6	7781.0	7975.9	8241.5	8446.5	8295.3	8063.3	7737.3	7555.8	7582.7
45°	8365.8	8392.7	8449.9	8738.9	8863.3	8964.1	8822.9	8715.4	8496.9	8275.1	8238.1
47.5°	9048.1	9058.2	9226.3	9317.0	9414.5	9330.5	9421.2	9280.1	9034.7	8819.6	8775.9
50°	9350.6	9333.8	9572.5	9848.1	9922.0	9774.1	9696.8	9602.7	9229.6	8970.8	8856.6
52.5°	8470.0	8567.5	9011.2	9777.5	10355.6	10480.0	10029.6	9596.0	8900.3	8396.1	8318.8
54°	7461.7	7552.4	7918.8	9054.9	10258.1	10678.3	9952.3	9031.3	8049.9	7451.6	7374.3
55°	6463.4	6362.6	7028.1	8187.7	9801.0	10503.5	9646.4	8302.0	7179.4	6631.5	6523.9
57.5°	3498.9	3515.7	4077.0	5172.8	6886.9	8053.3	7112.1	5616.4	4241.7	3626.7	3572.9
60°	1109.2	1136.1	1381.4	2090.6	3290.5	3929.2	3367.8	2255.3	1559.6	1250.3	1199.9
62.5°	346.2	359.6	393.3	584.8	900.8	1287.3	1008.3	605.0	450.4	413.4	420.1
65°	211.8	211.8	215.1	228.6	268.9	312.6	302.5	265.5	255.4	248.7	245.4
67.5°	137.8	134.4	141.2	151.3	158.0	161.3	171.4	181.5	178.1	171.4	171.4
70°	84.0	80.7	87.4	100.8	104.2	110.9	121.0	134.4	131.1	124.4	127.7
72.5°	47.1	47.1	50.4	60.5	70.6	77.3	87.4	97.5	100.8	97.5	97.5
75°	16.8	20.2	26.9	37.0	43.7	53.8	63.9	73.9	84.0	77.3	73.9
77.5°	6.7	6.7	13.4	23.5	33.6	43.7	60.5	70.6	77.3	70.6	63.9
80°	3.4	3.4	10.1	20.2	30.3	40.3	50.4	60.5	63.9	57.1	50.4
82.5°	3.4	3.4	10.1	20.2	30.3	37.0	53.8	60.5	67.2	60.5	50.4
85°	0.0	3.4	10.1	20.2	26.9	30.3	30.3	20.2	16.8	10.1	10.1
87.5°	0.0	0.0	3.4	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)