

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: P456923

Luminaire Tested: **GALN-SA8B-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39647 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

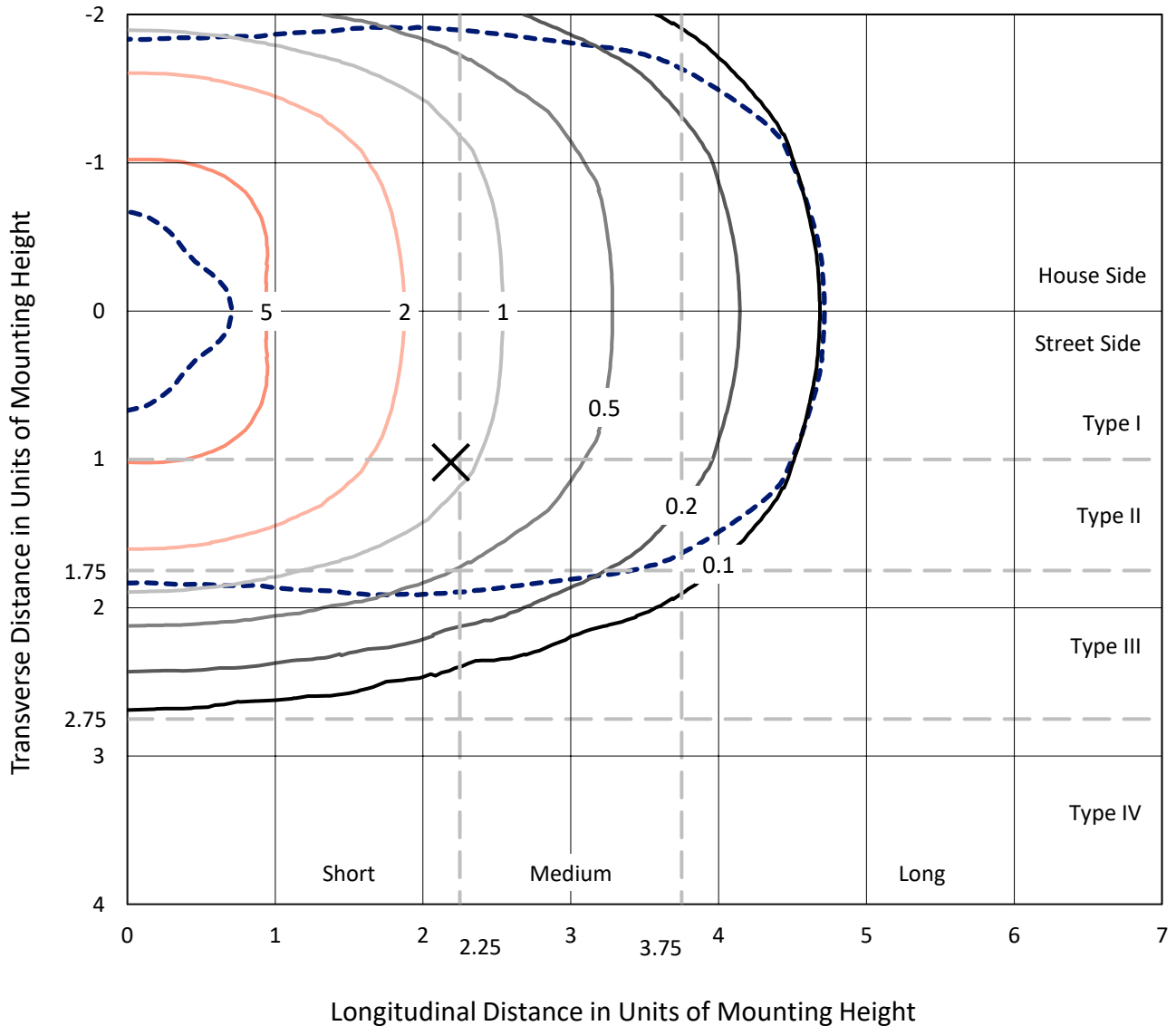
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

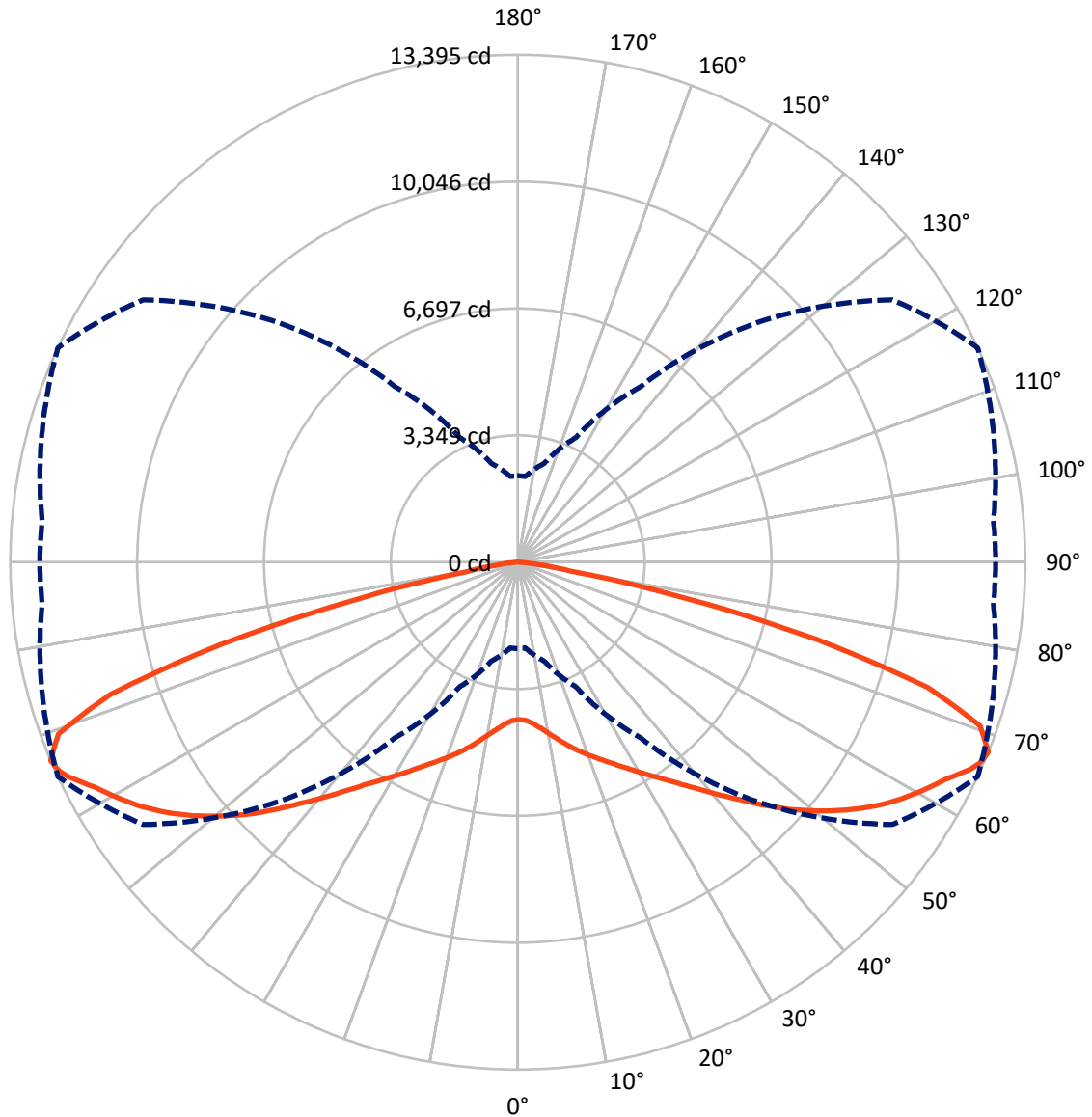
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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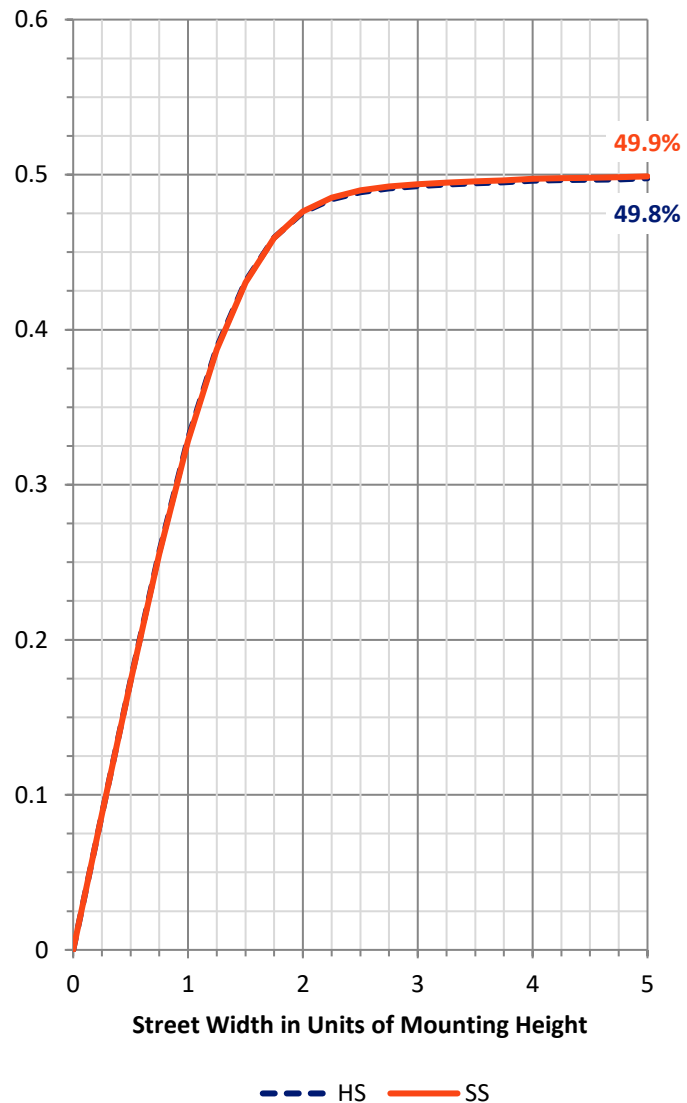
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19823.5	0.0	19823.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19823.5	0.0	19823.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39647.0	0.0	39647.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.6	1.0
10°-20°	1370.8	3.5
20°-30°	2681.3	6.8
30°-40°	4560.6	11.5
40°-50°	7218.1	18.2
50°-60°	9571.0	24.1
60°-70°	9028.4	22.8
70°-80°	4463.2	11.3
80°-90°	344.0	0.9
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°	39647.0	100.0
0°-180°	39647.0	100.0



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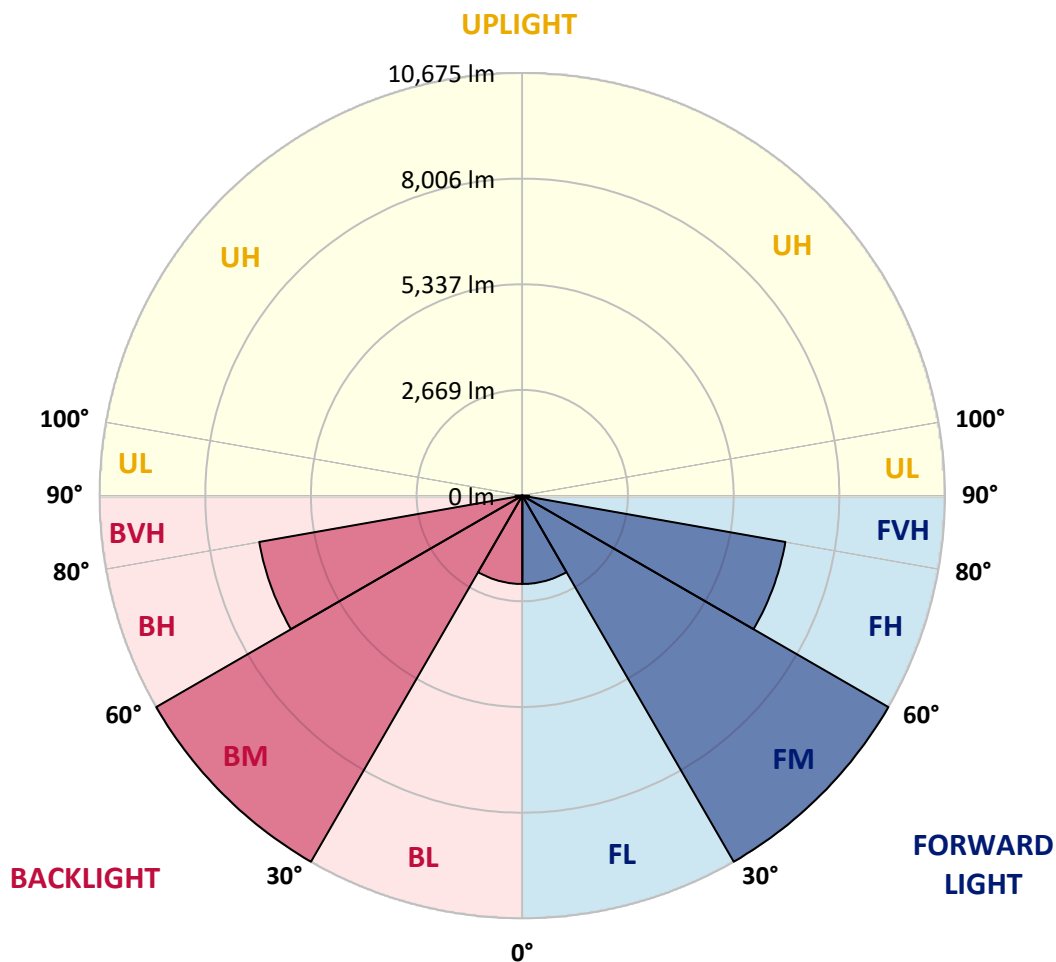
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2230.8	5.6			
FM	(30°-60°)	10674.9	26.9			
FH	(60°-80°)	6745.8	17.0			G3/7500
FVH	(80°-90°)	172.0	0.4			G2/225
BL	(0°-30°)	2230.8	5.6	B3/2500		
BM	(30°-60°)	10674.9	26.9	B5		
BH	(60°-80°)	6745.8	17.0	B5		G5
BVH	(80°-90°)	172.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4152.7	4152.7	4152.7	4152.7	4152.7	4152.7	4152.7	4152.7	4152.7	4152.7	4152.7
2.5°	4131.4	4135.7	4139.9	4146.3	4154.8	4167.5	4176.0	4182.4	4199.4	4201.5	4199.4
5°	4116.6	4120.8	4131.4	4150.5	4178.2	4216.4	4246.1	4282.2	4309.9	4329.0	4324.7
7.5°	4114.4	4122.9	4139.9	4180.3	4233.4	4299.2	4367.2	4428.8	4481.9	4524.4	4518.0
10°	4148.4	4159.0	4186.7	4246.1	4329.0	4424.6	4520.1	4611.5	4688.0	4743.2	4762.3
12.5°	4205.8	4214.3	4265.3	4354.5	4473.4	4592.4	4700.7	4813.3	4919.5	5012.9	5012.9
15°	4305.6	4320.5	4384.2	4513.8	4660.3	4798.4	4908.9	5027.8	5142.5	5248.7	5280.6
17.5°	4443.7	4464.9	4560.5	4726.2	4913.1	5040.6	5144.6	5242.4	5342.2	5444.1	5459.0
20°	4632.7	4654.0	4781.4	4981.1	5202.0	5354.9	5425.0	5448.4	5497.2	5595.0	5607.7
22.5°	4889.7	4911.0	5053.3	5278.5	5524.9	5690.5	5720.3	5665.1	5652.3	5728.8	5737.3
25°	5180.8	5199.9	5363.4	5605.6	5860.5	6041.0	6032.5	5896.6	5820.1	5866.8	5879.6
27.5°	5507.9	5535.5	5701.2	5951.8	6227.9	6387.3	6361.8	6164.2	6000.7	5992.2	5996.4
30°	5926.3	5956.1	6113.2	6353.3	6625.2	6771.7	6718.6	6453.1	6200.3	6115.4	6115.4
32.5°	6368.1	6442.5	6601.8	6852.4	7064.9	7171.1	7090.3	6771.7	6436.1	6317.2	6310.8
35°	6943.8	6984.1	7141.3	7385.6	7544.9	7627.7	7472.7	7130.7	6744.1	6603.9	6584.8
37.5°	7506.7	7540.7	7723.3	7957.0	8150.3	8146.0	7935.7	7557.7	7126.5	6969.3	6956.5
40°	8082.3	8118.4	8326.6	8541.1	8734.4	8717.4	8462.5	8039.8	7581.0	7404.7	7438.7
42.5°	8581.5	8621.8	8857.6	9163.5	9337.7	9333.4	9038.2	8562.4	8084.4	7927.3	7957.0
45°	9036.0	9072.2	9346.2	9696.7	9951.5	9983.4	9660.5	9157.1	8666.4	8464.7	8473.2
47.5°	9356.8	9424.8	9711.5	10113.0	10459.2	10571.8	10255.3	9762.5	9197.5	8987.2	8999.9
50°	9601.1	9643.5	9955.8	10412.5	10850.1	11083.7	10828.8	10323.3	9728.5	9505.5	9535.2
52.5°	9630.8	9681.8	10021.6	10548.4	11109.2	11463.9	11338.6	10871.3	10270.2	10040.8	10104.5
55°	9388.7	9418.4	9824.1	10463.5	11211.2	11746.4	11778.3	11381.1	10786.3	10612.2	10654.6
57.5°	8698.3	8774.8	9288.8	10066.3	11071.0	11897.3	12107.5	11844.1	11308.9	11136.8	11204.8
60°	7566.1	7642.6	8158.8	9144.4	10542.1	11827.2	12379.4	12254.1	11782.5	11644.5	11680.6
62.5°	5928.4	5922.1	6561.4	7770.1	9490.6	11483.0	12581.2	12649.2	12249.9	12075.7	12130.9
65°	3842.6	3861.7	4479.8	5781.9	7903.9	10607.9	12625.8	13152.6	12708.7	12445.3	12485.6
66°	3090.6	3148.0	3672.6	4872.8	7094.6	10034.4	12492.0	13301.3	12848.9	12530.2	12549.4
67.5°	2281.3	2270.7	2701.9	3628.0	5665.1	8944.7	12073.6	13394.8	13008.2	12606.7	12615.2
70°	1302.1	1300.0	1452.9	1992.4	3330.6	6298.0	10176.7	12946.6	13331.0	12882.8	12859.5
72.5°	951.6	945.2	966.5	1100.3	1625.0	3179.8	7020.2	11315.2	13165.4	12838.2	12772.4
75°	798.7	794.4	790.2	807.2	911.3	1440.2	3725.7	8139.7	11423.6	12050.2	11982.2
77.5°	652.1	652.1	654.2	650.0	654.2	758.3	1544.2	4363.0	6956.5	7765.8	7954.9
80°	509.8	507.7	543.8	528.9	494.9	486.4	684.0	1404.0	2308.9	2296.2	1894.7
82.5°	376.0	350.5	414.2	403.6	365.4	310.1	399.3	599.0	771.1	501.3	371.7
85°	237.9	235.8	293.1	267.6	223.0	146.6	191.2	257.0	318.6	193.3	157.2
87.5°	42.5	40.4	93.5	68.0	68.0	42.5	53.1	70.1	104.1	72.2	53.1
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)