

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: P533291

Luminaire Tested: **GALN-SA8D-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533291  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-727-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31353 lumens  
Efficiency: N/A  
Efficacy: 63.6 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

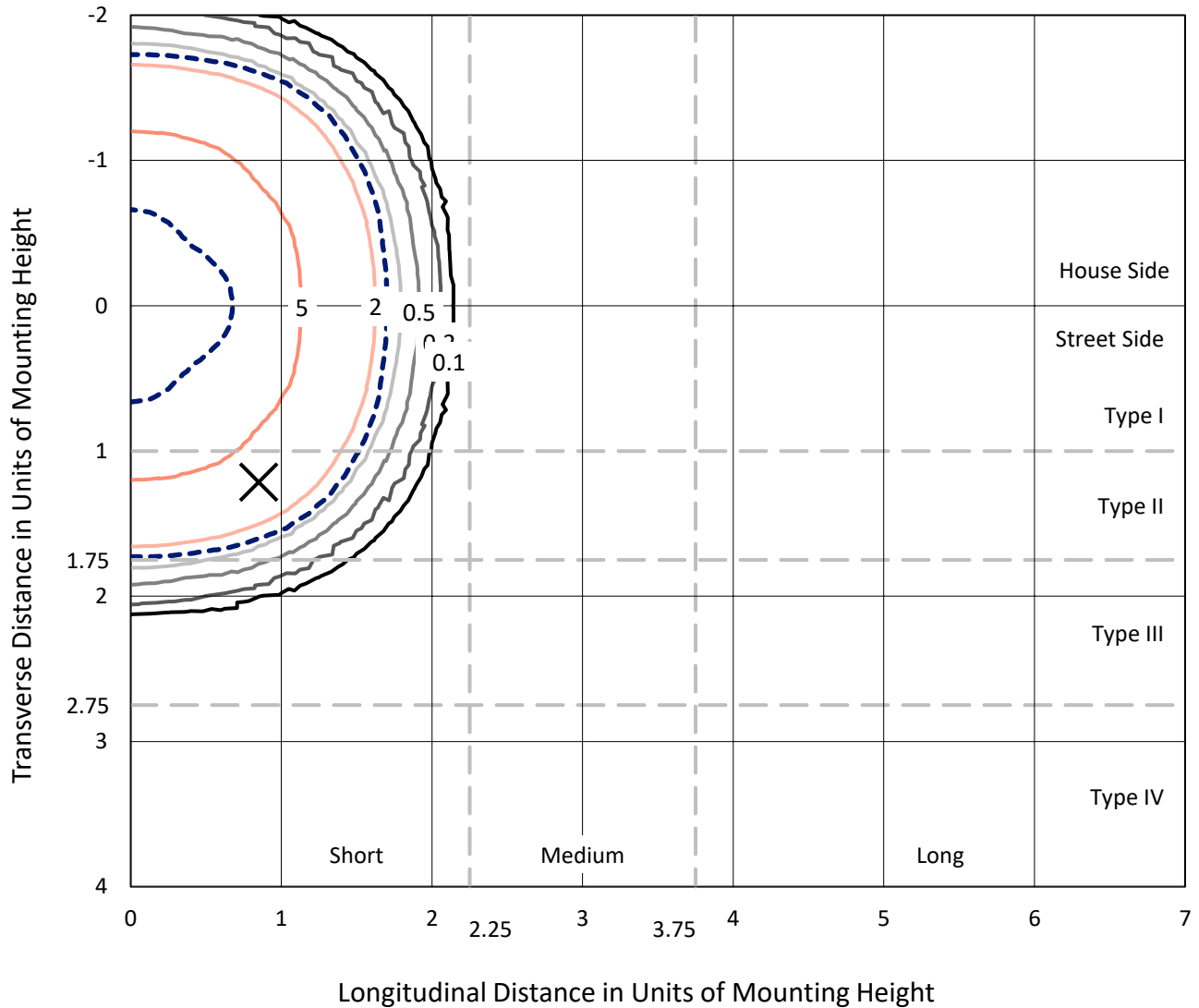
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

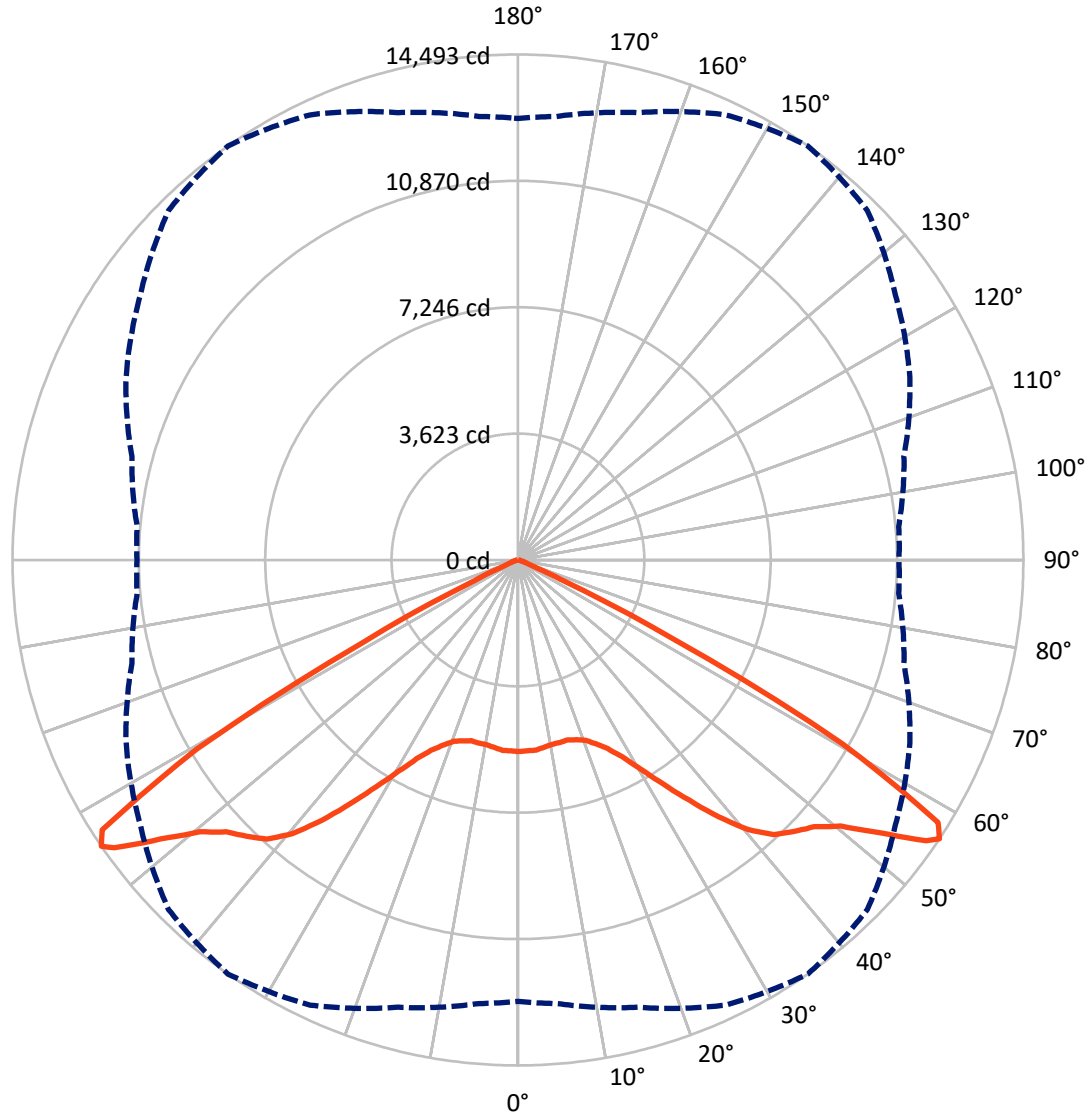
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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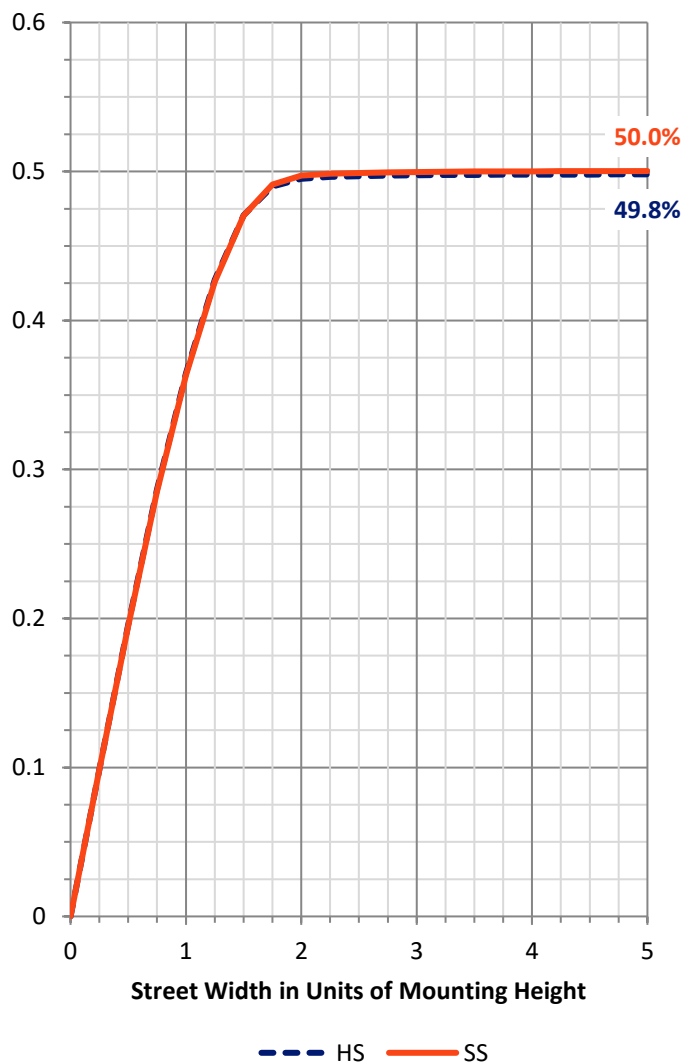
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15676.5	0.0	15676.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15676.5	0.0	15676.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31353.0	0.0	31353.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.3	1.6
10°-20°	1507.4	4.8
20°-30°	2729.7	8.7
30°-40°	5061.9	16.1
40°-50°	8308.8	26.5
50°-60°	10704.1	34.1
60°-70°	2359.1	7.5
70°-80°	136.9	0.4
80°-90°	28.8	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°	31353.0	100.0
0°-180°	31353.0	100.0

**Coefficient of Utilization**



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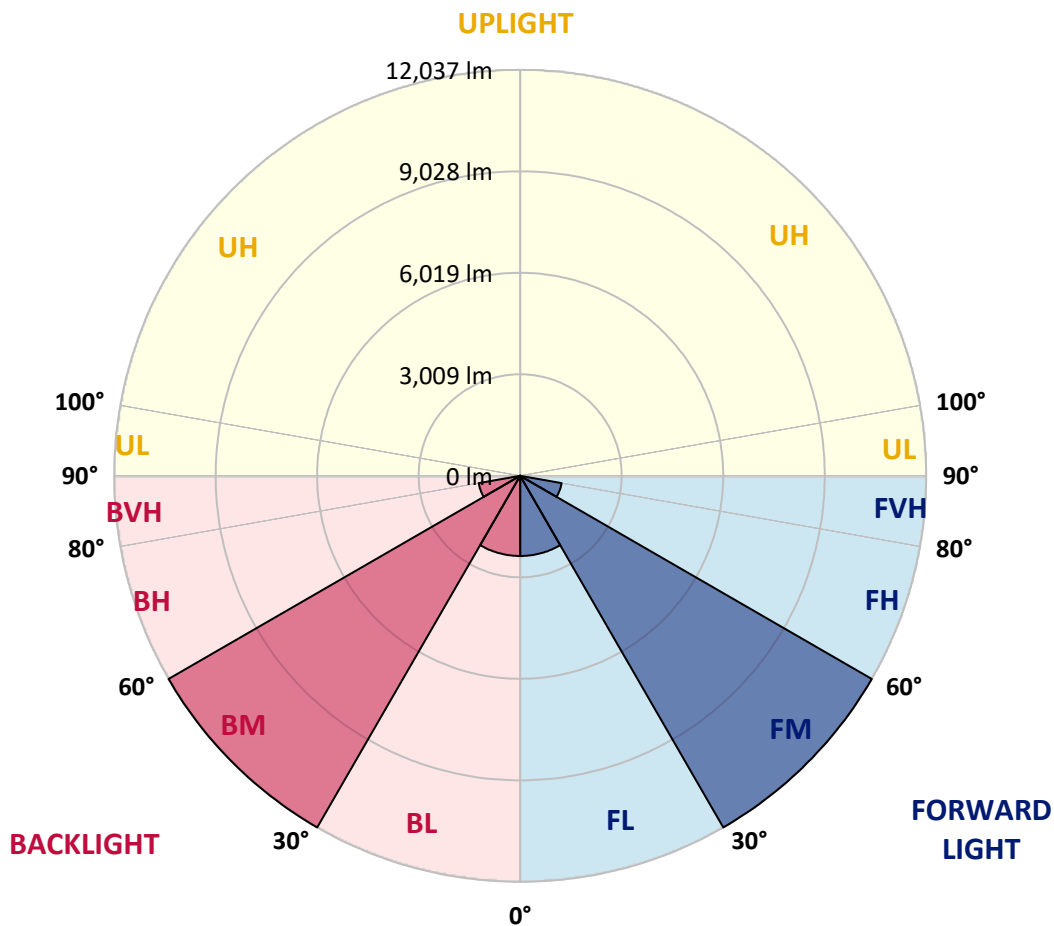
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2376.7	7.6			
FM (30°-60°)	12037.4	38.4			
FH (60°-80°)	1248.0	4.0			G1/1800
FVH (80°-90°)	14.4	0.0			G1/100
BL (0°-30°)	2376.7	7.6	B3/2500		
BM (30°-60°)	12037.4	38.4	B5		
BH (60°-80°)	1248.0	4.0	B3/2500		G1/1800
BVH (80°-90°)	14.4	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°	5493.7	5493.7	5493.7	5493.7	5493.7	5493.7	5493.7	5493.7	5493.7	5493.7	5493.7
2.5°	5505.1	5505.1	5510.8	5516.4	5476.7	5459.6	5465.3	5454.0	5448.3	5465.3	5465.3
5°	5488.0	5488.0	5471.0	5476.7	5476.7	5425.5	5425.5	5436.9	5436.9	5402.8	5391.5
7.5°	5442.6	5431.2	5408.5	5436.9	5419.9	5419.9	5380.1	5351.7	5340.3	5363.1	5340.3
10°	5346.0	5351.7	5374.4	5385.8	5374.4	5408.5	5340.3	5300.6	5260.8	5243.7	5243.7
12.5°	5300.6	5334.6	5300.6	5329.0	5368.7	5340.3	5300.6	5272.2	5215.3	5192.6	5192.6
15°	5294.9	5317.6	5329.0	5368.7	5351.7	5363.1	5283.5	5249.4	5164.2	5124.4	5107.4
17.5°	5289.2	5317.6	5334.6	5408.5	5419.9	5425.5	5363.1	5260.8	5186.9	5147.2	5107.4
20°	5351.7	5363.1	5397.1	5471.0	5516.4	5596.0	5482.4	5374.4	5215.3	5169.9	5152.8
22.5°	5431.2	5488.0	5522.1	5601.7	5721.0	5789.1	5641.4	5505.1	5340.3	5283.5	5215.3
25°	5686.9	5675.5	5732.3	5897.1	5993.7	6044.8	5925.5	5726.6	5510.8	5442.6	5454.0
27.5°	6005.0	6016.4	6067.5	6249.3	6391.3	6470.9	6328.9	6067.5	5857.3	5743.7	5732.3
30°	6419.8	6408.4	6465.2	6709.5	6965.2	7084.5	6834.5	6527.7	6323.2	6175.5	6209.6
32.5°	6857.2	6862.9	7022.0	7243.5	7658.3	7891.2	7487.8	7112.9	6806.1	6703.8	6652.7
35°	7504.9	7533.3	7658.3	7999.1	8459.3	8760.4	8317.3	7868.5	7516.2	7328.7	7351.5
37.5°	8305.9	8277.5	8487.7	8857.0	9339.9	9561.5	9186.5	8675.2	8317.3	8192.3	8271.8
40°	9158.1	9186.5	9294.4	9629.6	10169.3	10317.1	9760.3	9481.9	9169.5	9107.0	9203.5
42.5°	10010.3	9993.2	10072.8	10373.9	10765.9	10663.6	10334.1	10169.3	9947.8	9822.8	9953.5
45°	10635.2	10606.8	10754.5	10959.0	11101.1	10907.9	10760.2	10703.4	10589.8	10453.4	10572.7
47.5°	11243.1	11220.4	11362.4	11419.2	11430.6	11174.9	11203.3	11305.6	11021.5	10737.5	10873.8
50°	11760.1	11720.3	11896.4	12021.4	11993.0	11584.0	11686.2	11584.0	11140.8	10805.6	10754.5
52.5°	12623.6	12640.7	12828.1	13055.4	12987.2	12646.3	12498.6	12032.8	11464.7	11163.6	10987.4
55°	13169.0	13083.8	13407.6	14129.1	14208.7	13856.4	13203.1	12515.7	11663.5	11294.2	11248.8
56°	12657.7	12765.7	13277.0	14083.7	14492.7	14168.9	13220.2	12396.4	11459.0	10959.0	10924.9
57.5°	11356.7	11299.9	11993.0	13095.2	14208.7	14072.3	12754.3	11544.2	10453.4	9891.0	9822.8
60°	7067.4	7232.2	7840.1	9203.5	10692.0	10760.2	9453.5	8413.9	7141.3	6641.3	6760.6
62.5°	2766.7	2624.7	3005.4	4022.3	5044.9	5272.2	4777.9	3971.2	3261.0	2766.7	2732.7
65°	642.0	624.9	704.5	971.5	1357.8	1573.7	1494.2	1073.7	789.7	749.9	693.1
67.5°	363.6	363.6	346.6	346.6	380.6	403.4	386.3	380.6	397.7	414.7	409.0
70°	255.7	250.0	238.6	244.3	232.9	232.9	250.0	278.4	301.1	301.1	306.8
72.5°	153.4	153.4	153.4	170.4	170.4	170.4	187.5	210.2	215.9	210.2	204.5
75°	68.2	68.2	79.5	96.6	107.9	113.6	130.7	142.0	153.4	142.0	130.7
77.5°	17.0	17.0	28.4	39.8	51.1	62.5	85.2	102.3	107.9	102.3	85.2
80°	5.7	5.7	11.4	28.4	51.1	62.5	85.2	90.9	96.6	85.2	68.2
82.5°	5.7	5.7	11.4	28.4	39.8	51.1	68.2	79.5	85.2	73.9	68.2
85°	0.0	5.7	11.4	22.7	34.1	45.4	45.4	34.1	28.4	17.0	22.7
87.5°	0.0	0.0	5.7	5.7	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)