

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: P647585

Luminaire Tested: **GALN-SA8D-835-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647585  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-835-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51299.8 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

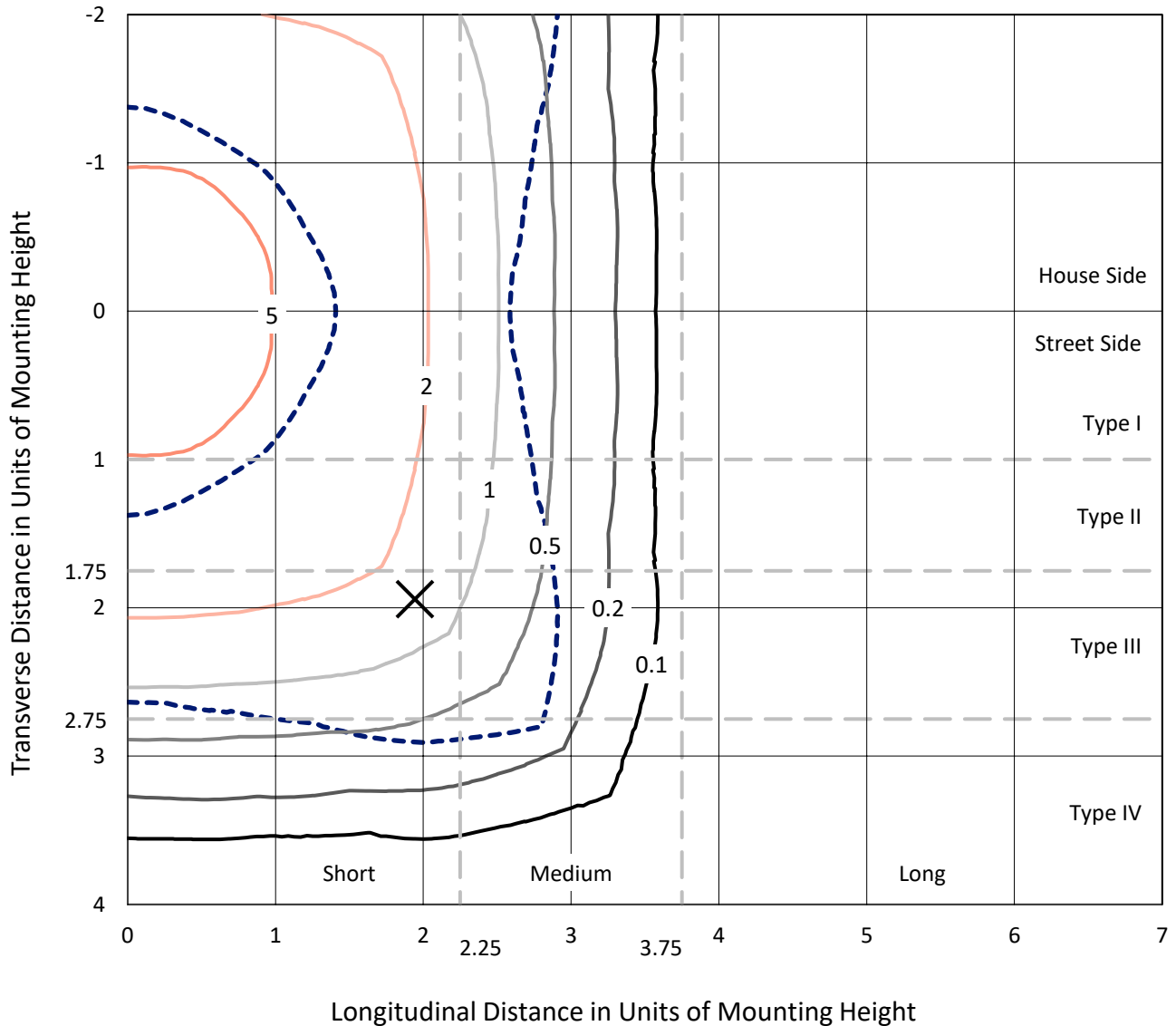
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

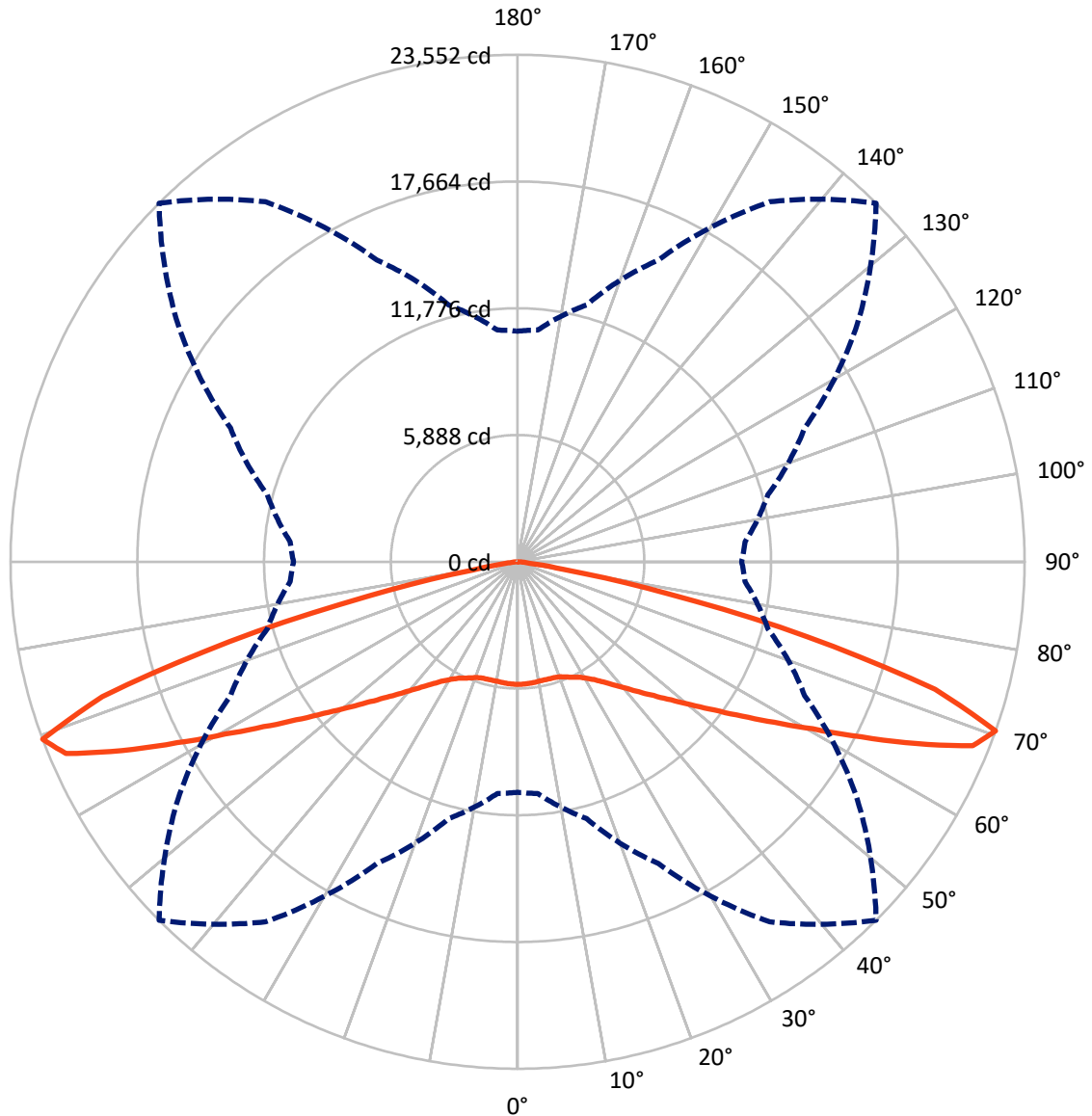
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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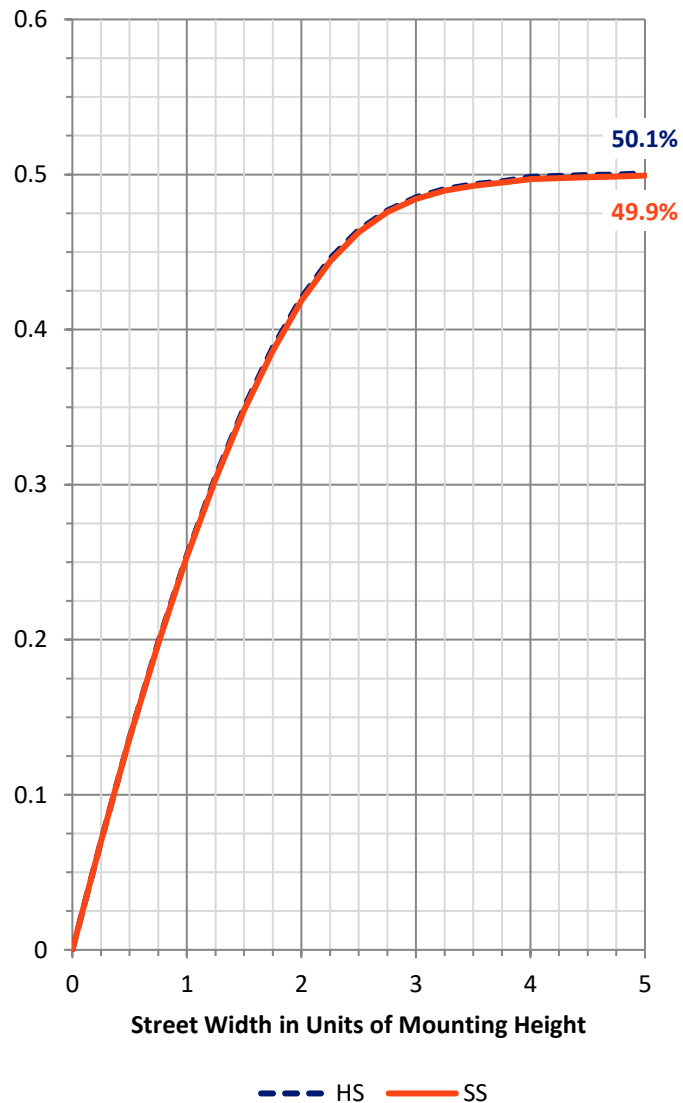
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25649.9	0.0	25649.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25649.9	0.0	25649.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51299.8	0.0	51299.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	540.2	1.1
10°-20°	1585.2	3.1
20°-30°	2711.1	5.3
30°-40°	4303.2	8.4
40°-50°	6942.1	13.5
50°-60°	11295.0	22.0
60°-70°	16373.7	31.9
70°-80°	7262.8	14.2
80°-90°	286.5	0.6
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°	51299.8	100.0
0°-180°	51299.8	100.0

**Coefficient of Utilization**



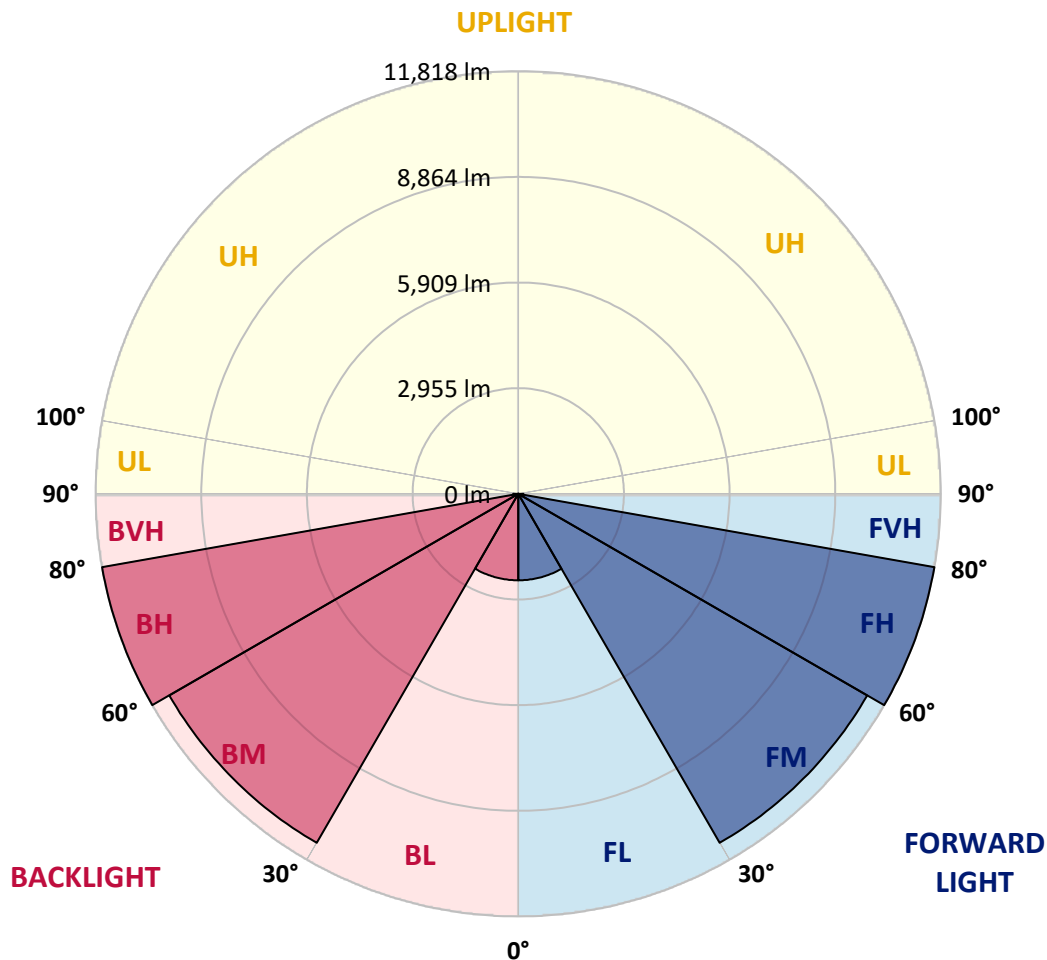
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2418.3	4.7			
FM (30°-60°)	11270.2	22.0			
FH (60°-80°)	11818.3	23.0			G4/12000
FVH (80°-90°)	143.2	0.3			G2/225
BL (0°-30°)	2418.3	4.7	B3/2500		
BM (30°-60°)	11270.2	22.0	B5		
BH (60°-80°)	11818.3	23.0	B5		G4/12000
BVH (80°-90°)	143.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5696.6	5696.6	5696.6	5696.6	5696.6	5696.6	5696.6	5696.6	5696.6	5696.6	5696.6
2.5°	5696.6	5702.0	5693.9	5688.5	5685.8	5685.8	5683.1	5685.8	5702.0	5704.7	5696.6
5°	5680.4	5685.8	5683.1	5677.7	5674.9	5674.9	5672.3	5669.5	5683.1	5688.5	5685.8
7.5°	5658.7	5661.5	5658.7	5656.1	5658.7	5656.1	5647.9	5642.5	5653.3	5653.3	5650.7
10°	5620.9	5626.3	5623.6	5626.3	5631.7	5631.7	5620.9	5610.1	5612.8	5607.4	5607.4
12.5°	5575.0	5583.0	5585.8	5596.6	5610.1	5626.3	5602.0	5577.6	5572.2	5569.6	5566.8
15°	5545.2	5553.3	5564.2	5575.0	5599.2	5634.4	5599.2	5561.4	5550.6	5539.8	5534.4
17.5°	5537.1	5547.9	5564.2	5580.4	5612.8	5647.9	5618.2	5580.4	5553.3	5537.1	5531.7
20°	5558.8	5566.8	5591.2	5620.9	5666.9	5702.0	5672.3	5631.7	5591.2	5566.8	5558.8
22.5°	5602.0	5615.5	5645.2	5699.3	5764.2	5815.6	5775.0	5707.4	5642.5	5610.1	5599.2
25°	5696.6	5707.4	5742.6	5815.6	5891.3	5939.9	5896.7	5818.2	5729.1	5685.8	5672.3
27.5°	5839.9	5856.1	5894.0	5980.5	6042.6	6069.7	6040.0	5985.9	5921.0	5875.0	5864.2
30°	6042.6	6061.6	6118.4	6210.3	6250.8	6267.1	6253.6	6218.4	6172.5	6123.8	6113.0
32.5°	6315.8	6326.6	6391.5	6478.0	6515.8	6521.2	6505.0	6488.8	6413.1	6332.0	6326.6
35°	6621.3	6640.2	6718.6	6821.3	6856.5	6859.2	6826.7	6802.4	6713.2	6648.3	6648.3
37.5°	7026.8	7034.9	7110.6	7226.9	7264.8	7253.9	7237.7	7216.0	7121.5	7037.6	7040.3
40°	7502.6	7518.8	7583.7	7719.0	7719.0	7705.4	7716.2	7700.0	7605.4	7524.2	7527.0
42.5°	8067.7	8075.8	8154.2	8297.5	8286.7	8259.6	8270.5	8248.8	8189.4	8097.5	8065.0
45°	8670.6	8703.0	8838.3	8976.2	8954.5	8868.0	8911.2	8905.8	8851.7	8713.9	8722.0
47.5°	9397.9	9452.0	9581.7	9746.7	9722.4	9587.1	9635.8	9668.2	9592.5	9441.2	9414.2
50°	10217.1	10252.3	10444.2	10598.3	10576.7	10433.4	10544.3	10549.7	10360.4	10146.8	10146.8
52.5°	11090.4	11125.6	11385.1	11625.7	11639.2	11431.0	11520.3	11514.9	11206.7	10925.4	10871.4
55°	12069.1	12085.4	12420.6	12774.8	12850.4	12647.7	12658.5	12550.4	12150.2	11823.1	11793.3
57.5°	13080.2	13139.8	13510.2	13969.8	14194.2	14069.8	14013.0	13723.7	13337.2	12961.3	12942.4
60°	14199.6	14202.3	14683.5	15227.0	15681.2	15765.0	15532.5	15145.9	14645.7	14148.3	14126.6
62.5°	14975.6	15091.8	15700.1	16619.3	17433.2	17903.6	17289.9	16478.8	15494.6	14691.7	14610.5
65°	15135.1	15213.5	16140.8	17698.1	19360.8	20374.8	18955.3	17230.4	15551.4	14480.8	14426.7
67.5°	13845.4	13929.3	15178.3	17568.3	20712.7	22791.8	20036.8	16868.1	14588.9	13264.1	13158.7
70°	10709.2	10803.8	12347.6	15464.9	20412.6	23551.5	19266.3	14713.3	12031.3	10601.0	10409.0
72.5°	5693.9	6042.6	7362.1	10614.6	16568.0	20277.4	15797.5	10736.2	7759.5	6342.8	6088.6
75°	2079.1	2122.4	2857.8	4707.1	9638.5	13904.9	10008.9	5120.7	2944.3	2273.8	2157.5
77.5°	859.7	857.1	940.9	1422.1	3501.3	7121.5	3906.8	1503.2	938.2	867.9	857.1
80°	508.3	508.3	559.7	592.1	922.0	2149.4	1030.1	670.5	562.4	513.7	521.8
82.5°	227.1	240.6	354.2	373.1	446.1	589.4	497.4	427.2	367.7	254.2	229.8
85°	124.3	108.1	186.6	194.7	213.6	219.0	235.2	232.6	213.6	124.3	127.1
87.5°	24.4	29.8	54.1	40.6	46.0	40.6	54.1	75.7	78.4	43.2	35.2
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)