

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: P647530

Luminaire Tested: **GALN-SA7D-835-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647530  
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-SA7D-835-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 44248.9 lumens  
Efficiency: N/A  
Efficacy: 102.2 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

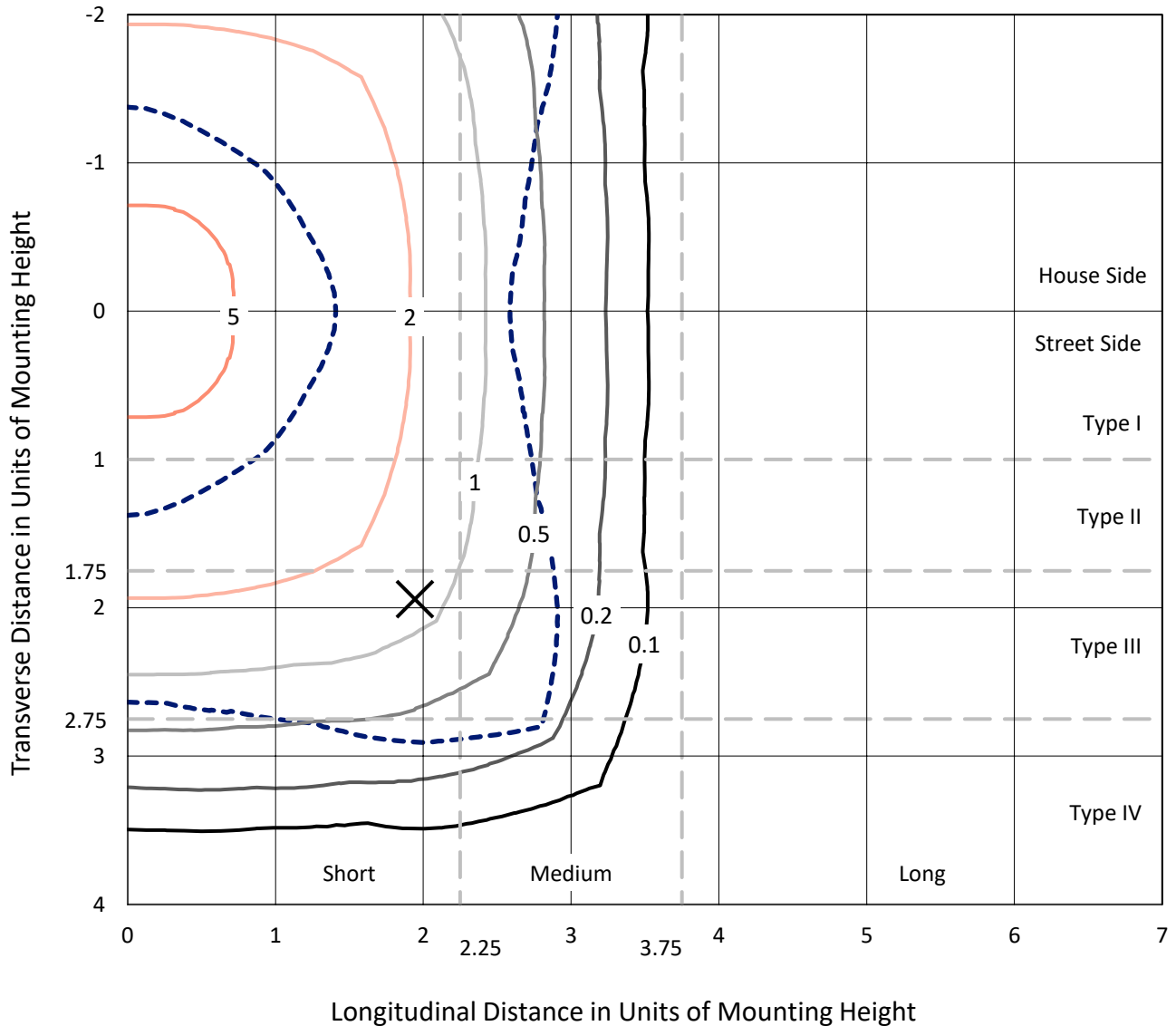
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

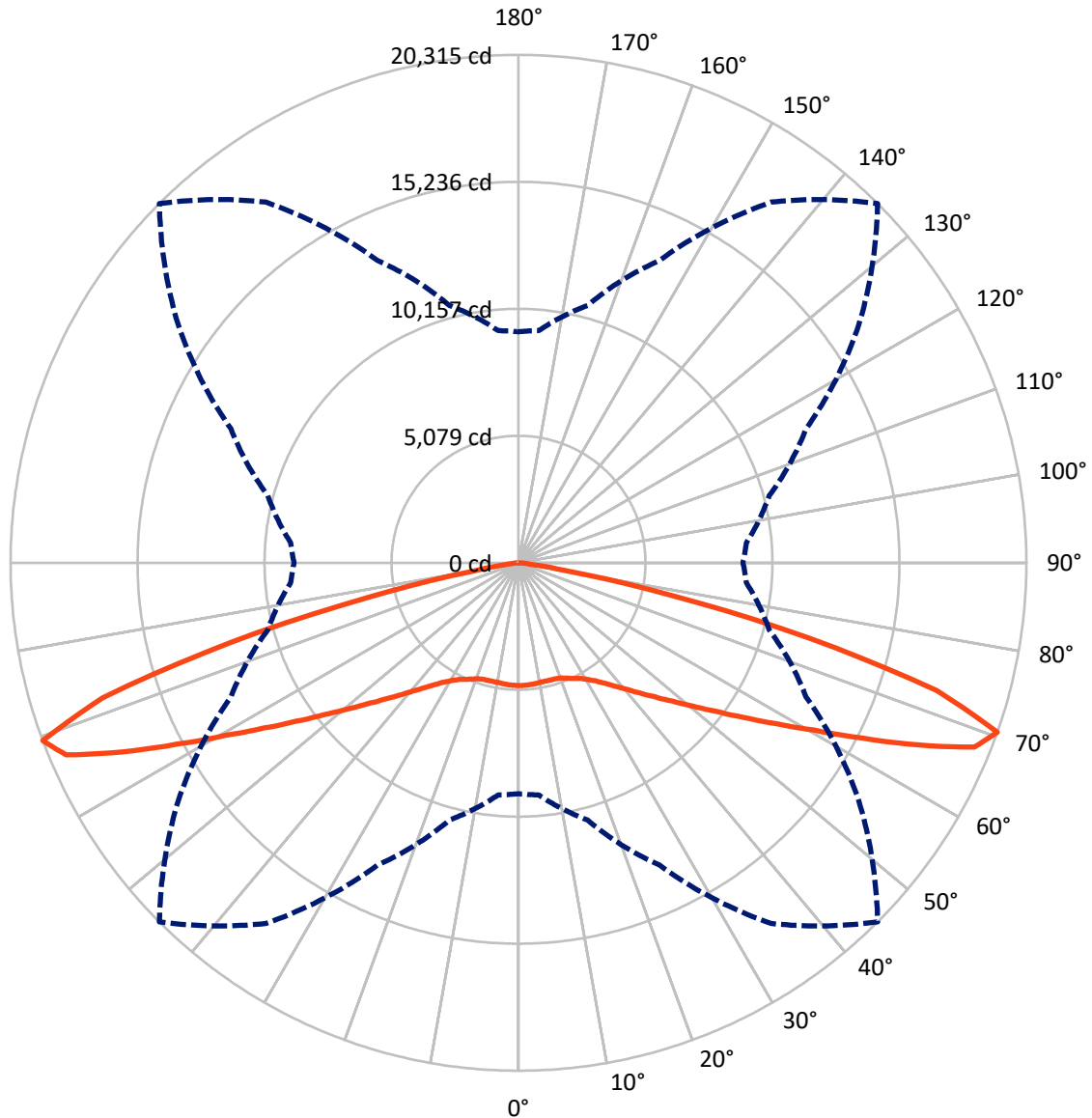
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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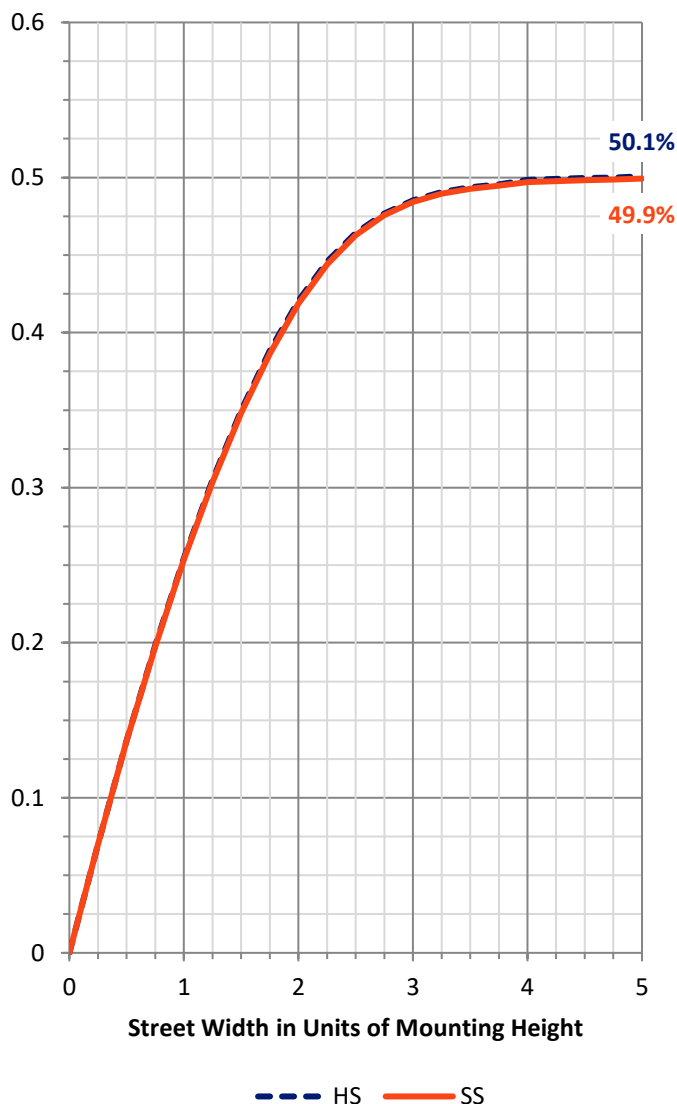
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22124.4	0.0	22124.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22124.4	0.0	22124.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44248.9	0.0	44248.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.9	1.1
10°-20°	1367.3	3.1
20°-30°	2338.5	5.3
30°-40°	3711.7	8.4
40°-50°	5988.0	13.5
50°-60°	9742.6	22.0
60°-70°	14123.2	31.9
70°-80°	6264.6	14.2
80°-90°	247.1	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°	44248.9	100.0
0°-180°	44248.9	100.0

**Coefficient of Utilization**

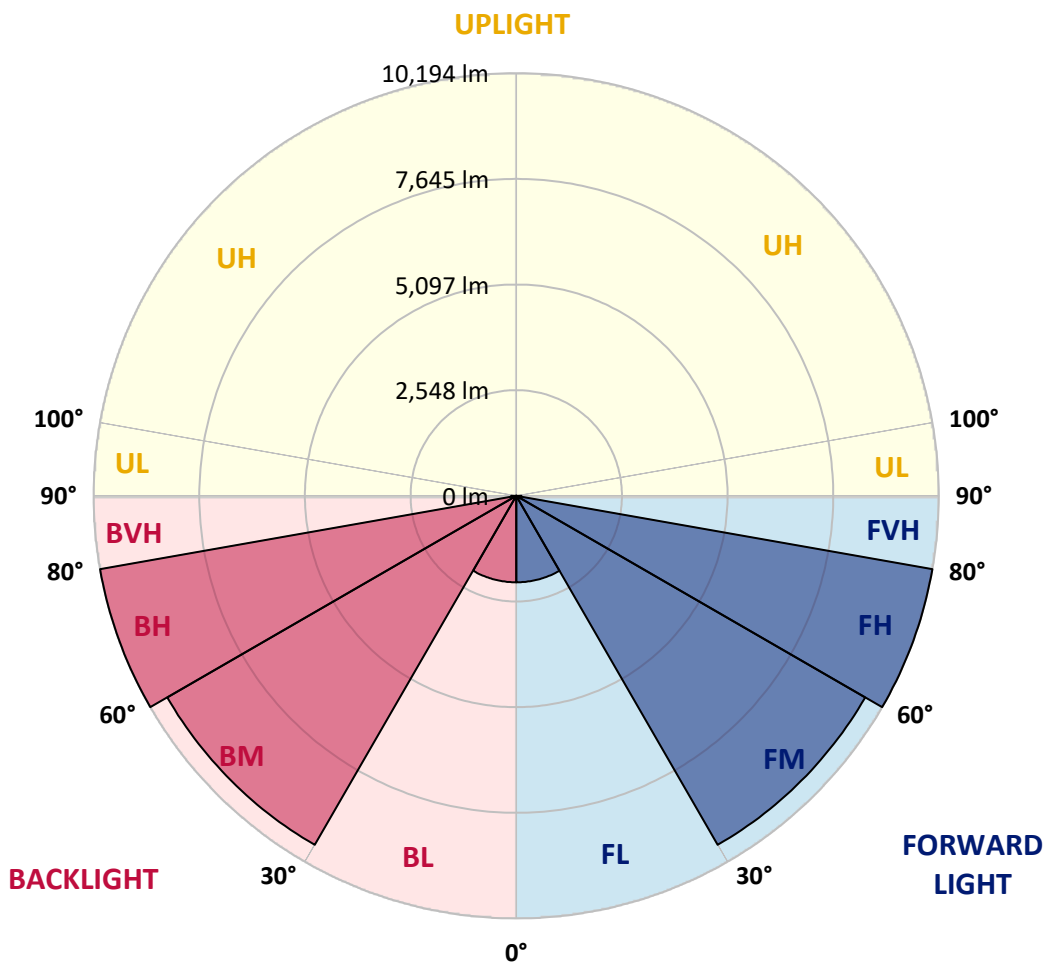


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2085.9	4.7			
FM (30°-60°)	9721.1	22.0			
FH (60°-80°)	10193.9	23.0			G4/12000
FVH (80°-90°)	123.5	0.3			G2/225
BL (0°-30°)	2085.9	4.7	B3/2500		
BM (30°-60°)	9721.1	22.0	B5		
BH (60°-80°)	10193.9	23.0	B5		G4/12000
BVH (80°-90°)	123.5	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°	4913.6	4913.6	4913.6	4913.6	4913.6	4913.6	4913.6	4913.6	4913.6	4913.6	4913.6
2.5°	4913.6	4918.3	4911.3	4906.7	4904.3	4904.3	4902.0	4904.3	4918.3	4920.6	4913.6
5°	4899.6	4904.3	4902.0	4897.3	4895.0	4895.0	4892.7	4890.3	4902.0	4906.7	4904.3
7.5°	4881.0	4883.3	4881.0	4878.6	4881.0	4878.6	4871.7	4867.0	4876.3	4876.3	4874.0
10°	4848.3	4853.0	4850.7	4853.0	4857.7	4857.7	4848.3	4839.0	4841.4	4836.7	4836.7
12.5°	4808.7	4815.7	4818.0	4827.4	4839.0	4853.0	4832.0	4811.0	4806.4	4804.0	4801.7
15°	4783.0	4790.0	4799.4	4808.7	4829.7	4860.0	4829.7	4797.0	4787.7	4778.3	4773.7
17.5°	4776.1	4785.4	4799.4	4813.3	4841.4	4871.7	4846.0	4813.3	4790.0	4776.1	4771.4
20°	4794.7	4801.7	4822.7	4848.3	4888.0	4918.3	4892.7	4857.7	4822.7	4801.7	4794.7
22.5°	4832.0	4843.6	4869.3	4916.0	4972.0	5016.2	4981.3	4923.0	4867.0	4839.0	4829.7
25°	4913.6	4923.0	4953.3	5016.2	5081.5	5123.5	5086.2	5018.6	4941.6	4904.3	4892.7
27.5°	5037.2	5051.2	5083.9	5158.5	5212.1	5235.5	5209.8	5163.2	5107.2	5067.6	5058.2
30°	5212.1	5228.5	5277.4	5356.7	5391.7	5405.7	5394.0	5363.7	5324.1	5282.1	5272.8
32.5°	5447.6	5457.0	5512.9	5587.6	5620.2	5624.9	5610.9	5596.9	5531.7	5461.7	5457.0
35°	5711.2	5727.5	5795.1	5883.8	5914.1	5916.4	5888.4	5867.4	5790.5	5734.5	5734.5
37.5°	6061.0	6068.0	6133.3	6233.5	6266.2	6256.9	6242.9	6224.2	6142.6	6070.4	6072.6
40°	6471.4	6485.4	6541.4	6658.0	6658.0	6646.3	6655.7	6641.7	6560.1	6490.1	6492.4
42.5°	6958.8	6965.8	7033.5	7157.1	7147.8	7124.4	7133.8	7115.1	7063.8	6984.5	6956.5
45°	7478.9	7506.9	7623.4	7742.4	7723.7	7649.1	7686.5	7681.8	7635.1	7516.2	7523.2
47.5°	8106.2	8152.8	8264.8	8407.1	8386.1	8269.4	8311.5	8339.4	8274.1	8143.5	8120.2
50°	8812.8	8843.1	9008.7	9141.6	9123.0	8999.4	9095.0	9099.6	8936.5	8752.2	8752.2
52.5°	9566.1	9596.4	9820.2	10027.8	10039.5	9859.9	9936.9	9932.2	9666.4	9423.8	9377.2
55°	10410.3	10424.2	10713.5	11018.9	11084.2	10909.3	10918.7	10825.4	10480.2	10198.0	10172.4
57.5°	11282.5	11333.8	11653.2	12049.7	12243.3	12136.0	12087.0	11837.5	11504.0	11179.8	11163.5
60°	12247.9	12250.3	12665.3	13134.1	13525.9	13598.2	13397.6	13064.1	12632.7	12203.6	12185.0
62.5°	12917.2	13017.5	13542.2	14335.1	15037.0	15442.9	14913.5	14213.9	13364.9	12672.4	12602.4
65°	13054.8	13122.5	13922.4	15265.6	16699.8	17574.4	16350.0	14862.1	13414.0	12490.5	12443.8
67.5°	11942.4	12014.7	13092.2	15153.6	17865.9	19659.2	17282.8	14549.6	12583.7	11441.0	11350.1
70°	9237.3	9318.9	10650.4	13339.3	17607.0	20314.5	16618.2	12691.0	10377.6	9144.0	8978.4
72.5°	4911.3	5212.1	6350.2	9155.6	14290.8	17490.4	13626.2	9260.5	6693.0	5471.0	5251.8
75°	1793.4	1830.7	2465.0	4060.1	8313.7	11993.8	8633.3	4416.9	2539.6	1961.3	1861.0
77.5°	741.6	739.2	811.6	1226.6	3020.0	6142.6	3369.8	1296.6	809.2	748.6	739.2
80°	438.4	438.4	482.7	510.8	795.2	1854.0	888.5	578.3	485.1	443.1	450.1
82.5°	195.9	207.6	305.5	321.8	384.8	508.4	429.1	368.5	317.2	219.2	198.3
85°	107.3	93.3	160.9	167.9	184.2	188.9	202.9	200.5	184.2	107.3	109.6
87.5°	21.0	25.7	46.7	35.0	39.6	35.0	46.7	65.3	67.7	37.3	30.3
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)