

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: P647646

Luminaire Tested: **GALN-SA9D-835-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57471.4 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 - G5

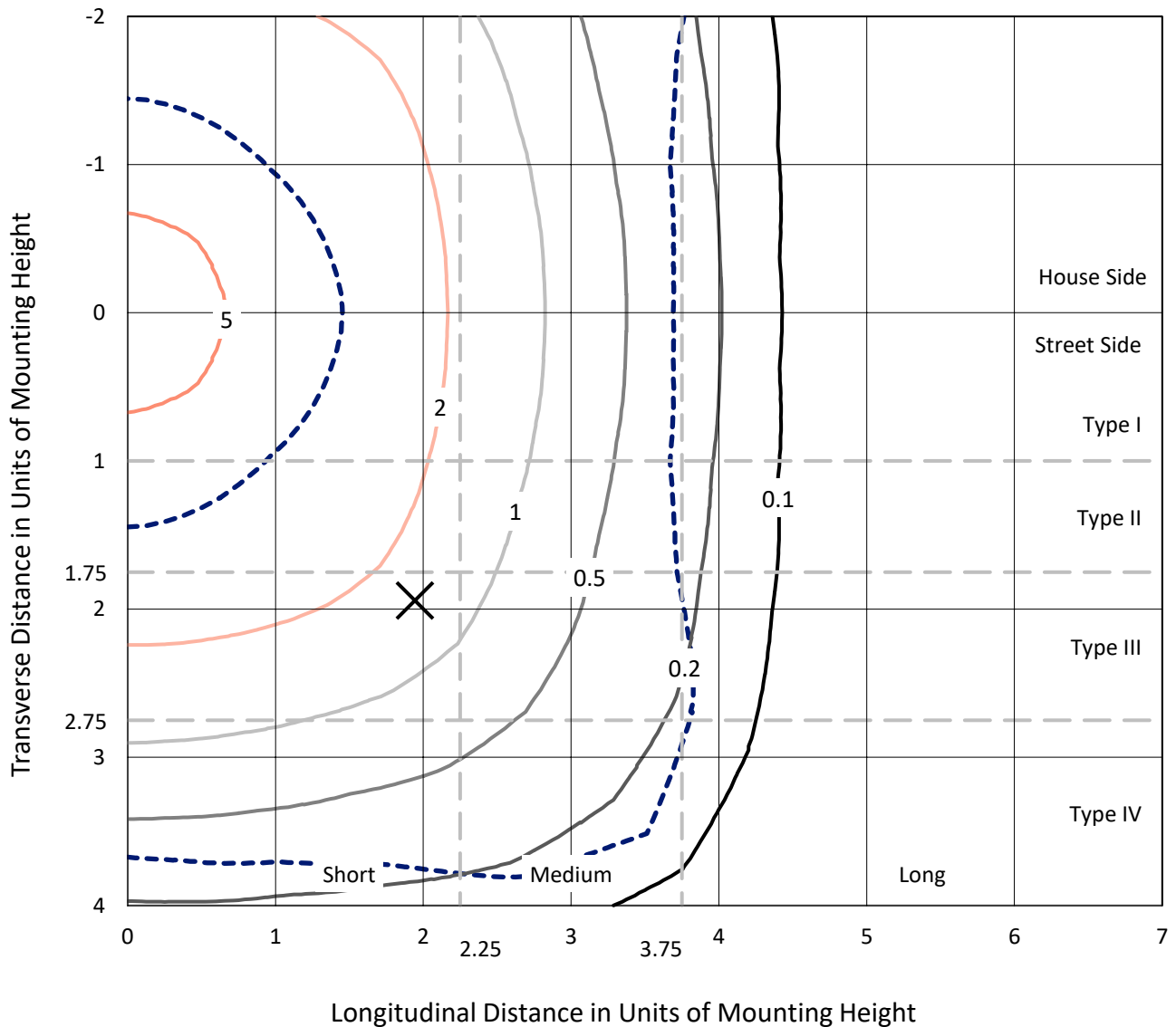
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

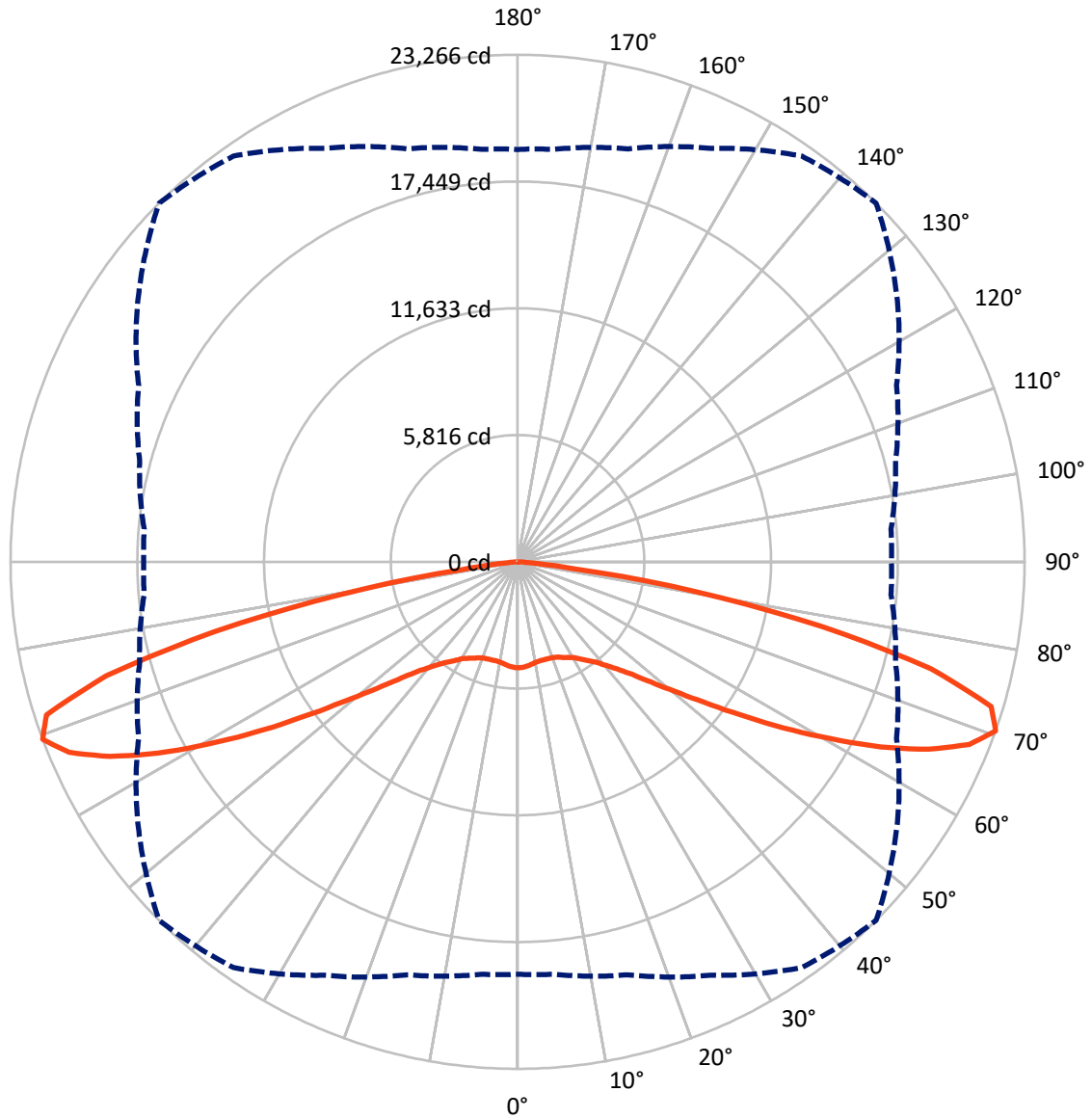
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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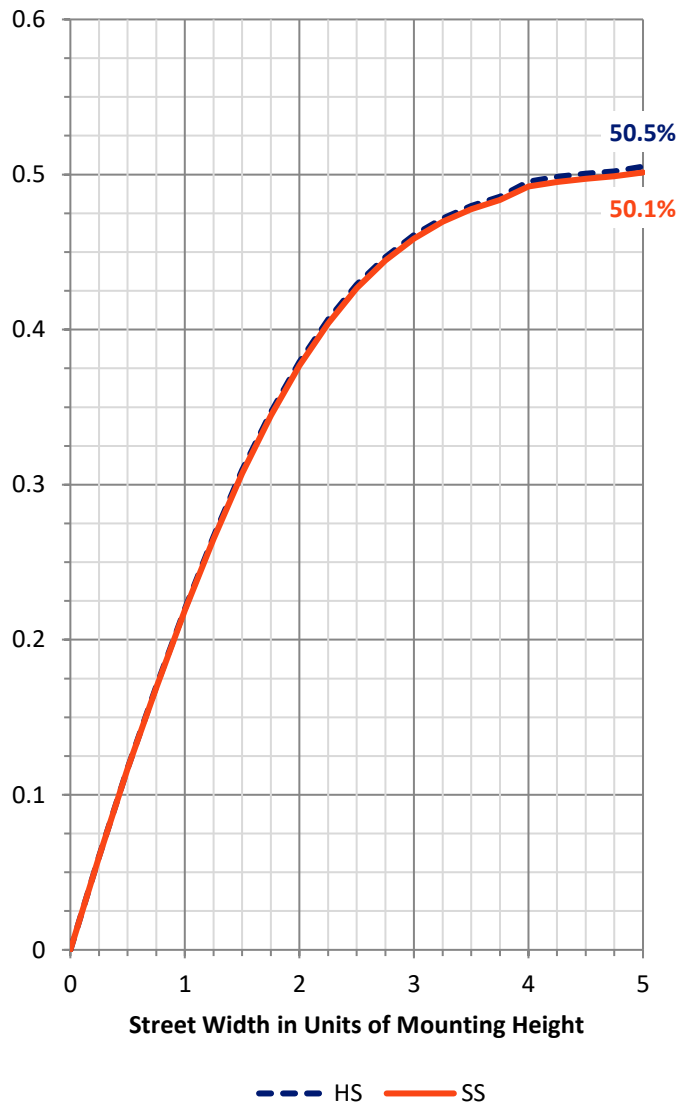
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28735.7	0.0	28735.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	28735.7	0.0	28735.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	57471.4	0.0	57471.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.0	0.8
10°-20°	1332.1	2.3
20°-30°	2269.6	3.9
30°-40°	3517.9	6.1
40°-50°	5921.1	10.3
50°-60°	10773.2	18.7
60°-70°	18238.8	31.7
70°-80°	14117.6	24.6
80°-90°	845.9	1.5
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°	57471.4	100.0
0°-180°	57471.4	100.0

**Coefficient of Utilization**



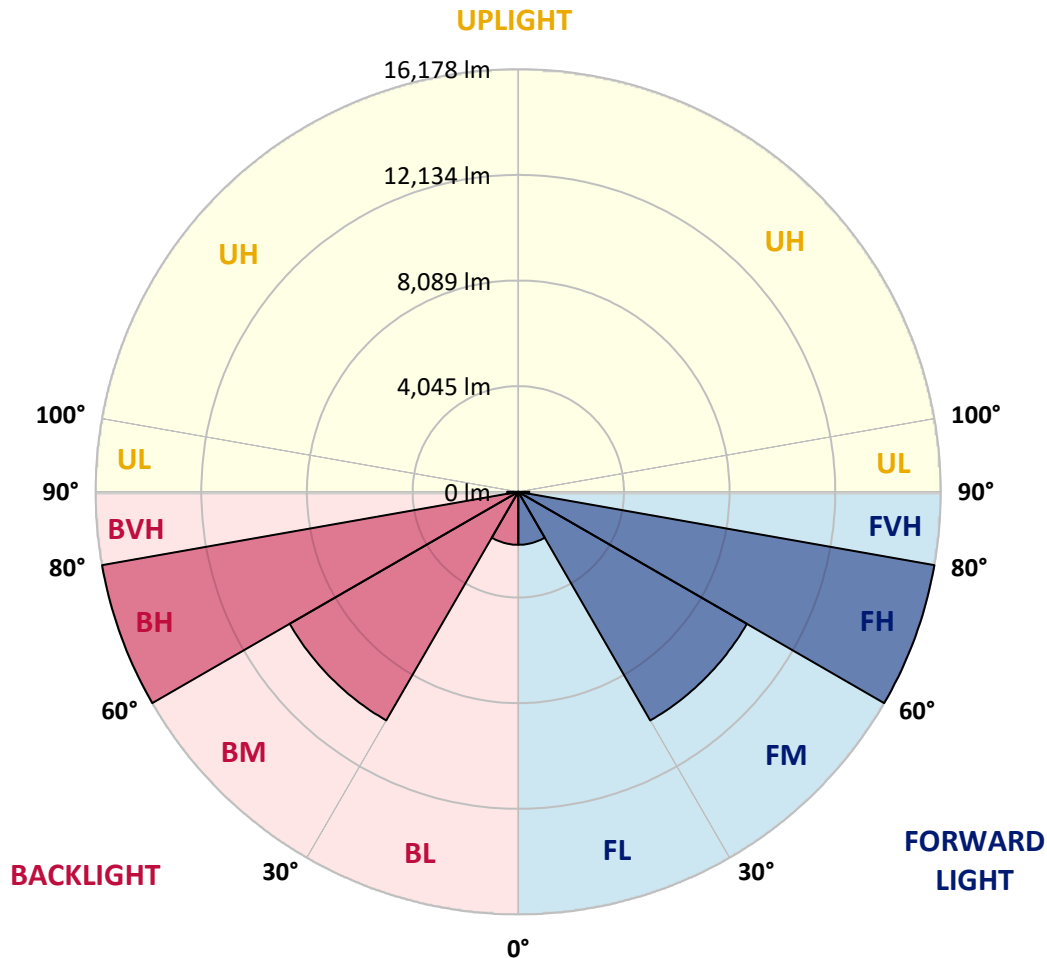
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2028.4	3.5			
FM (30°-60°)	10106.1	17.6			
FH (60°-80°)	16178.2	28.1			G5
FVH (80°-90°)	423.0	0.7			G3/500
BL (0°-30°)	2028.4	3.5	B3/2500		
BM (30°-60°)	10106.1	17.6	B5		
BH (60°-80°)	16178.2	28.1	B5		G5
BVH (80°-90°)	423.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4865.6	4865.6	4865.6	4865.6	4865.6	4865.6	4865.6	4865.6	4865.6	4865.6	4865.6
2.5°	4853.5	4856.6	4856.6	4850.5	4847.5	4847.5	4844.4	4844.4	4853.5	4856.6	4859.6
5°	4811.0	4811.0	4811.0	4808.0	4801.9	4801.9	4795.9	4795.9	4798.9	4808.0	4801.9
7.5°	4753.4	4759.4	4759.4	4747.3	4738.2	4738.2	4735.1	4738.2	4741.2	4750.3	4747.3
10°	4735.1	4738.2	4723.0	4701.8	4686.6	4677.5	4680.5	4686.6	4701.8	4707.8	4710.8
12.5°	4747.3	4747.3	4719.9	4689.6	4662.3	4650.2	4647.1	4668.3	4695.7	4713.9	4719.9
15°	4762.4	4756.4	4723.0	4683.5	4656.2	4653.2	4650.2	4665.3	4704.8	4741.2	4744.3
17.5°	4771.6	4768.5	4726.0	4677.5	4662.3	4662.3	4659.2	4671.4	4713.9	4759.4	4762.4
20°	4801.9	4792.8	4744.3	4692.7	4680.5	4686.6	4677.5	4692.7	4738.2	4792.8	4805.0
22.5°	4862.6	4853.5	4805.0	4753.4	4747.3	4747.3	4744.3	4759.4	4808.0	4865.6	4874.8
25°	4935.5	4926.4	4880.8	4844.4	4850.5	4862.6	4856.6	4859.6	4899.1	4947.6	4962.8
27.5°	5032.6	5017.5	4978.0	4947.6	4965.9	4965.9	4965.9	4962.8	4987.1	5032.6	5047.8
30°	5151.0	5144.9	5102.4	5099.4	5114.6	5099.4	5099.4	5102.4	5105.5	5147.9	5163.1
32.5°	5305.8	5293.6	5272.4	5266.3	5308.8	5321.0	5278.4	5239.0	5260.3	5302.7	5311.9
35°	5560.8	5542.5	5512.2	5478.8	5512.2	5569.9	5478.8	5448.4	5503.1	5560.8	5566.8
37.5°	5906.8	5897.7	5849.1	5788.4	5785.4	5846.1	5752.0	5748.9	5852.1	5922.0	5931.1
40°	6340.8	6350.0	6289.2	6231.6	6201.2	6249.7	6176.9	6204.3	6304.4	6383.3	6377.3
42.5°	6950.9	6917.6	6823.5	6768.8	6735.4	6717.2	6699.0	6741.5	6853.8	6938.8	7005.6
45°	7664.2	7652.1	7533.7	7466.9	7394.1	7366.8	7360.7	7436.6	7573.2	7676.4	7685.5
47.5°	8471.7	8444.3	8368.5	8298.6	8271.3	8237.9	8207.6	8265.3	8401.8	8474.7	8495.9
50°	9303.4	9309.4	9309.4	9297.3	9324.6	9330.6	9248.7	9269.9	9345.8	9339.8	9333.7
52.5°	10253.4	10286.8	10444.6	10459.8	10590.3	10678.3	10529.6	10441.6	10414.3	10250.3	10262.5
55°	11370.4	11400.8	11637.5	11874.3	12226.4	12375.1	12062.4	11789.3	11595.1	11346.1	11358.3
57.5°	12763.6	12778.8	13003.4	13458.8	14017.2	14366.3	13816.9	13276.6	12882.0	12645.2	12551.2
60°	14263.1	14278.2	14606.1	15161.5	16029.7	16454.6	15774.7	14891.4	14393.6	14032.4	14056.7
62.5°	16063.1	16123.8	16418.2	17183.1	18236.4	18712.9	17811.4	16630.7	15956.8	15507.5	15525.8
65°	17990.5	18093.7	18415.5	19256.2	20227.6	20740.5	19635.7	18272.8	17435.1	16885.6	16943.3
67.5°	19241.1	19332.1	19796.5	20725.3	21936.4	22361.4	20934.8	19347.3	18300.1	17644.4	17523.1
70°	18922.4	18998.2	19617.4	20934.8	22728.7	23265.9	21244.4	19189.5	17957.1	17201.3	17152.7
72.5°	16703.5	16545.7	17450.2	19341.2	21824.2	22725.6	20270.1	17526.1	15975.0	15198.0	15106.9
75°	11069.9	11412.9	12748.4	14976.4	18464.0	19581.0	17301.5	14071.8	12120.1	11473.6	11373.5
77.5°	3700.1	3964.2	5151.0	8489.8	12587.6	14266.1	12605.8	9203.1	6510.8	5245.1	5269.4
80°	980.4	968.3	1253.6	2334.2	5439.3	8262.2	6331.7	3117.3	1705.8	1235.4	1171.7
82.5°	352.1	394.6	506.9	646.5	1441.8	2567.9	1812.1	874.1	640.5	473.5	458.4
85°	154.8	151.7	218.5	258.0	361.2	479.6	424.9	370.3	324.8	215.5	200.4
87.5°	33.4	33.4	51.6	39.5	63.7	63.7	78.9	94.1	97.1	63.7	51.6
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)