

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: P647591

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647591
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-SA8D-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 51191.8 lumens
Efficiency: N/A
Efficacy: 103.8 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

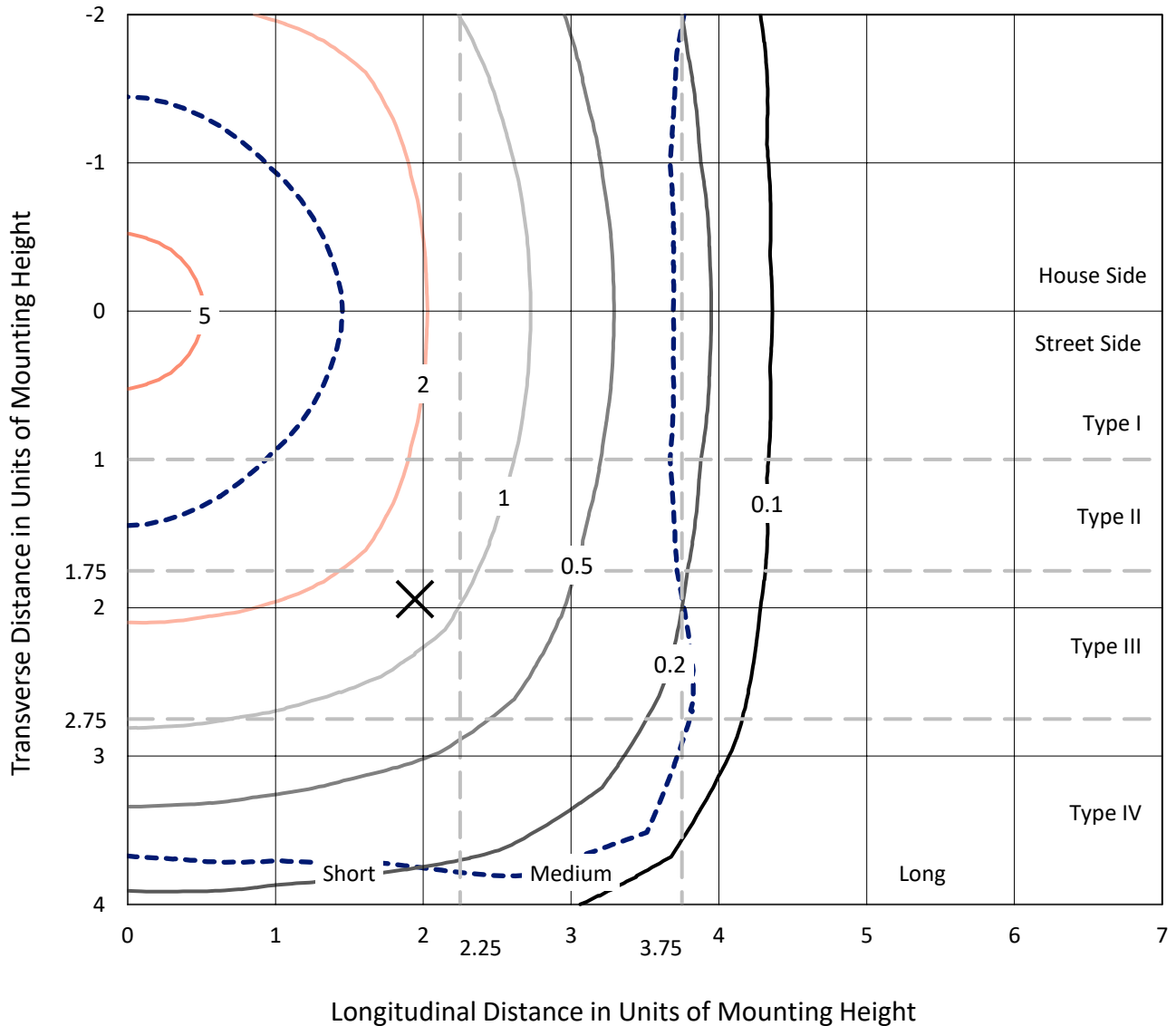
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

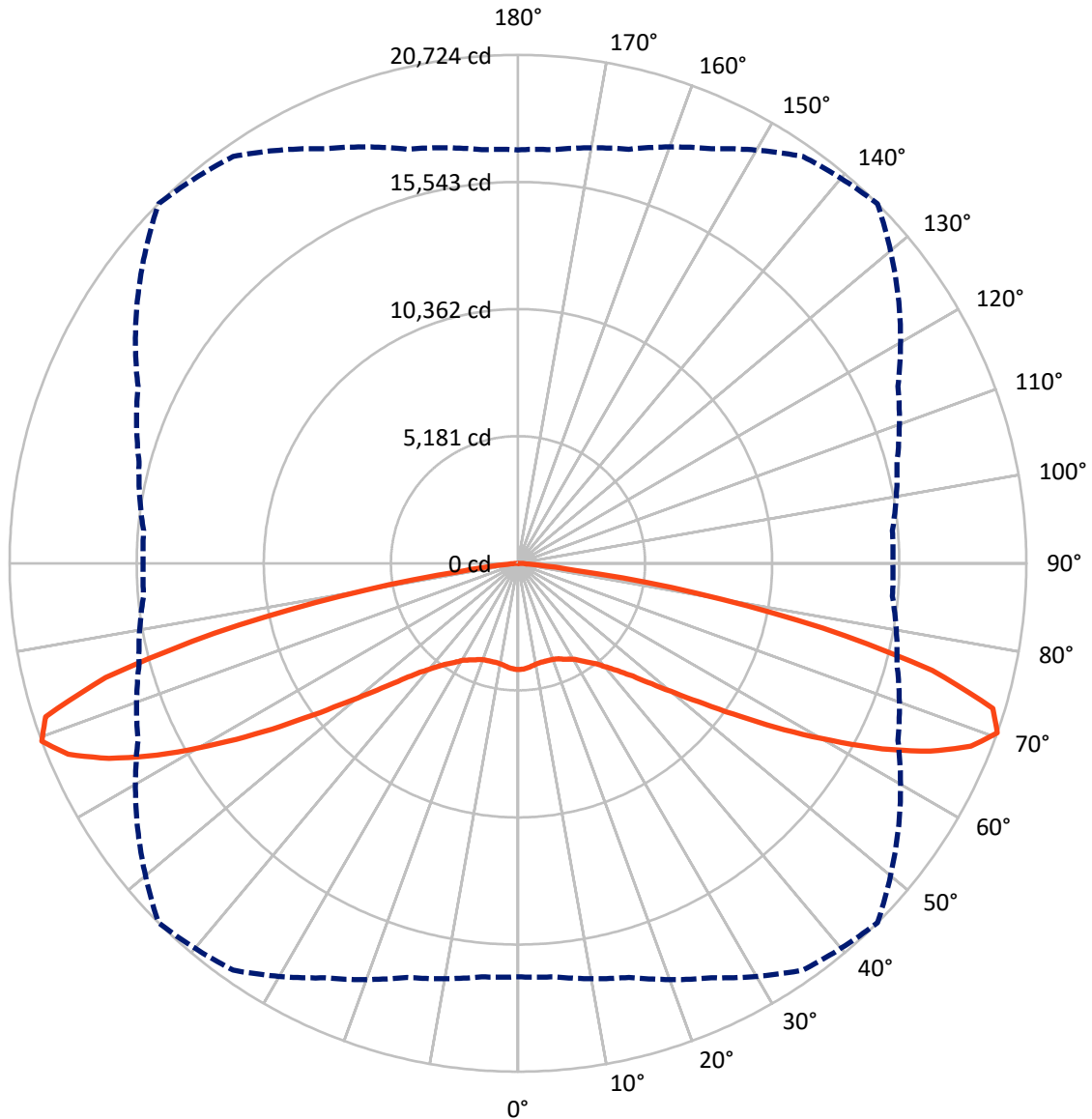
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - N/A

REPORT NUMBER: P647591
CATALOG NUMBER: GALN-SA8D-835-U-5WQ

Luminous Intensity Polar Plot



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

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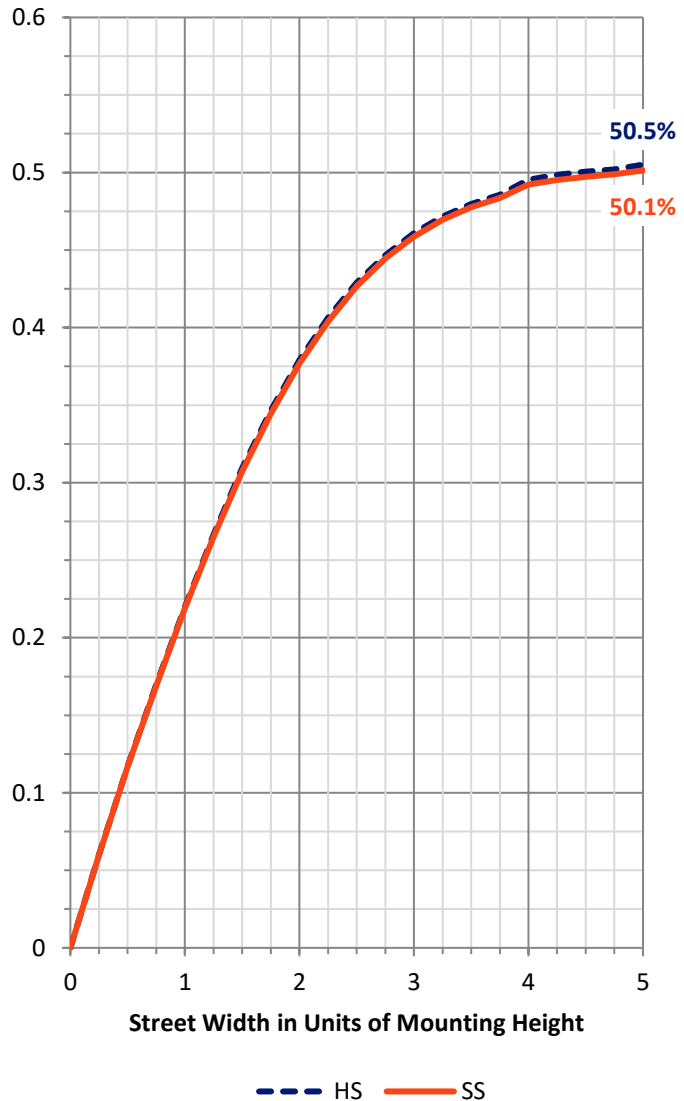
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25595.9	0.0	25595.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25595.9	0.0	25595.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	51191.8	0.0	51191.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.3	0.8
10°-20°	1186.6	2.3
20°-30°	2021.6	3.9
30°-40°	3133.5	6.1
40°-50°	5274.2	10.3
50°-60°	9596.1	18.7
60°-70°	16245.9	31.7
70°-80°	12575.0	24.6
80°-90°	753.5	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°	51191.8	100.0
0°-180°	51191.8	100.0

Coefficient of Utilization



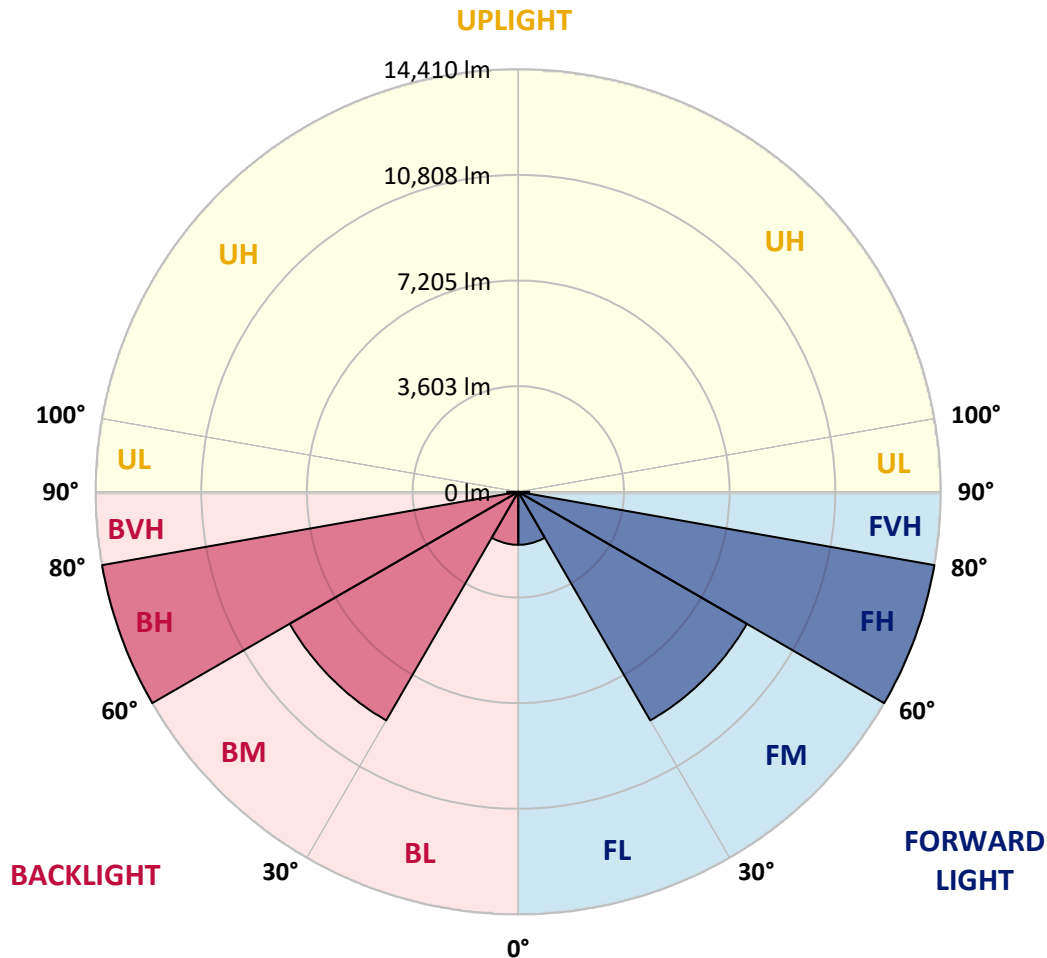
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1806.8	3.5			
FM (30°-60°)	9001.9	17.6			
FH (60°-80°)	14410.5	28.1			G5
FVH (80°-90°)	376.8	0.7			G3/500
BL (0°-30°)	1806.8	3.5	B3/2500		
BM (30°-60°)	9001.9	17.6	B5		
BH (60°-80°)	14410.5	28.1	B5		G5
BVH (80°-90°)	376.8	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°	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0	4334.0
2.5°	4323.2	4325.9	4325.9	4320.5	4317.8	4317.8	4315.1	4315.1	4323.2	4325.9	4328.6
5°	4285.4	4285.4	4285.4	4282.6	4277.2	4277.2	4271.8	4271.8	4274.6	4282.6	4277.2
7.5°	4234.0	4239.4	4239.4	4228.6	4220.4	4220.4	4217.8	4220.4	4223.2	4231.3	4228.6
10°	4217.8	4220.4	4206.9	4188.0	4174.5	4166.3	4169.1	4174.5	4188.0	4193.4	4196.1
12.5°	4228.6	4228.6	4204.2	4177.2	4152.9	4142.1	4139.3	4158.3	4182.6	4198.8	4204.2
15°	4242.1	4236.7	4206.9	4171.8	4147.5	4144.7	4142.1	4155.5	4190.7	4223.2	4225.9
17.5°	4250.2	4247.5	4209.6	4166.3	4152.9	4152.9	4150.1	4160.9	4198.8	4239.4	4242.1
20°	4277.2	4269.2	4225.9	4179.9	4169.1	4174.5	4166.3	4179.9	4220.4	4269.2	4280.0
22.5°	4331.3	4323.2	4280.0	4234.0	4228.6	4228.6	4225.9	4239.4	4282.6	4334.0	4342.1
25°	4396.2	4388.1	4347.5	4315.1	4320.5	4331.3	4325.9	4328.6	4363.7	4407.0	4420.5
27.5°	4482.7	4469.2	4434.1	4407.0	4423.2	4423.2	4423.2	4420.5	4442.2	4482.7	4496.2
30°	4588.1	4582.7	4544.9	4542.2	4555.7	4542.2	4542.2	4544.9	4547.6	4585.5	4599.0
32.5°	4726.0	4715.2	4696.3	4690.9	4728.8	4739.6	4701.7	4666.5	4685.5	4723.4	4731.4
35°	4953.2	4936.9	4909.9	4880.1	4909.9	4961.2	4880.1	4853.1	4901.8	4953.2	4958.6
37.5°	5261.4	5253.2	5210.0	5155.9	5153.2	5207.3	5123.5	5120.8	5212.7	5274.9	5283.0
40°	5648.0	5656.1	5602.1	5550.7	5523.6	5566.9	5502.0	5526.3	5615.5	5685.8	5680.4
42.5°	6191.4	6161.7	6077.9	6029.3	5999.5	5983.3	5967.0	6004.9	6104.9	6180.6	6240.1
45°	6826.8	6816.0	6710.5	6651.0	6586.2	6561.9	6556.5	6624.0	6745.7	6837.6	6845.8
47.5°	7546.0	7521.7	7454.1	7391.9	7367.6	7337.8	7310.8	7362.2	7483.8	7548.7	7567.6
50°	8286.8	8292.2	8292.2	8281.4	8305.8	8311.2	8238.1	8257.0	8324.6	8319.2	8313.8
52.5°	9133.1	9162.8	9303.4	9316.9	9433.2	9511.6	9379.1	9300.7	9276.4	9130.3	9141.1
55°	10128.0	10155.0	10365.9	10576.8	10890.4	11022.9	10744.5	10501.1	10328.1	10106.4	10117.2
57.5°	11369.0	11382.5	11582.6	11988.1	12485.6	12796.6	12307.2	11826.0	11474.5	11263.5	11179.8
60°	12704.6	12718.1	13010.2	13504.9	14278.2	14656.7	14051.1	13264.3	12820.8	12499.1	12520.8
62.5°	14307.9	14361.9	14624.2	15305.5	16243.7	16668.2	15865.2	14813.5	14213.3	13813.1	13829.3
65°	16024.7	16116.6	16403.3	17152.2	18017.4	18474.3	17490.2	16276.2	15529.9	15040.6	15092.0
67.5°	17138.7	17219.8	17633.5	18460.8	19539.5	19918.0	18647.3	17233.3	16300.5	15716.5	15608.4
70°	16854.8	16922.4	17473.9	18647.3	20245.2	20723.7	18923.1	17092.7	15995.0	15321.8	15278.5
72.5°	14878.4	14737.8	15543.5	17227.9	19439.5	20242.5	18055.2	15611.1	14229.5	13537.4	13456.2
75°	9860.3	10165.8	11355.5	13340.0	16446.5	17441.5	15411.0	12534.3	10795.8	10220.0	10130.7
77.5°	3295.8	3531.0	4588.1	7562.2	11212.2	12707.3	11228.4	8197.5	5799.4	4672.0	4693.6
80°	873.3	862.5	1116.6	2079.1	4845.0	7359.4	5639.9	2776.7	1519.5	1100.4	1043.7
82.5°	313.6	351.5	451.5	575.9	1284.3	2287.3	1614.1	778.7	570.5	421.8	408.3
85°	137.9	135.1	194.7	229.8	321.7	427.2	378.5	329.9	289.3	192.0	178.4
87.5°	29.8	29.8	46.0	35.2	56.8	56.8	70.3	83.8	86.5	56.8	46.0
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)