

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: P648081

Luminaire Tested: **GALN-SA8A-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19863.1 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

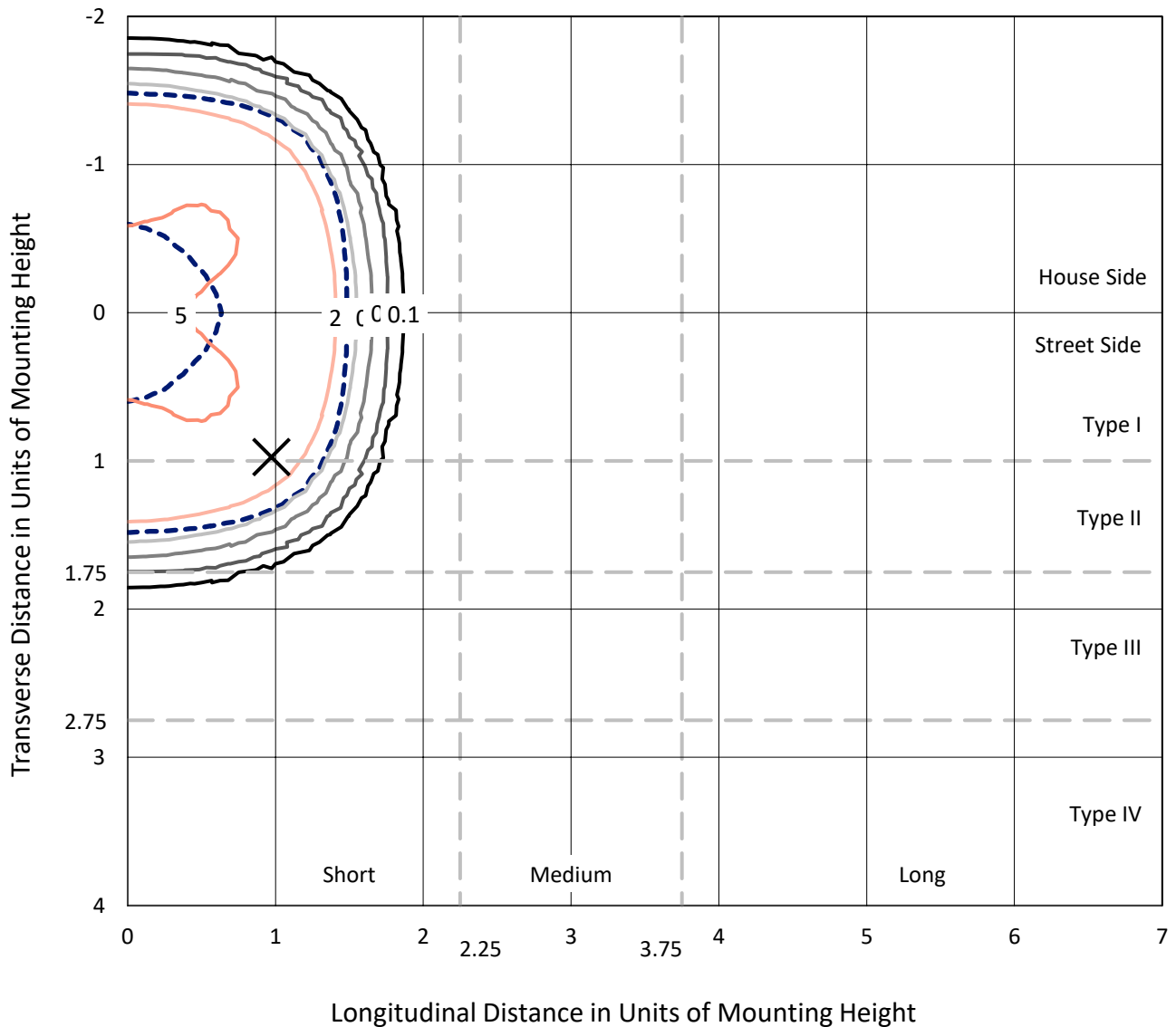
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

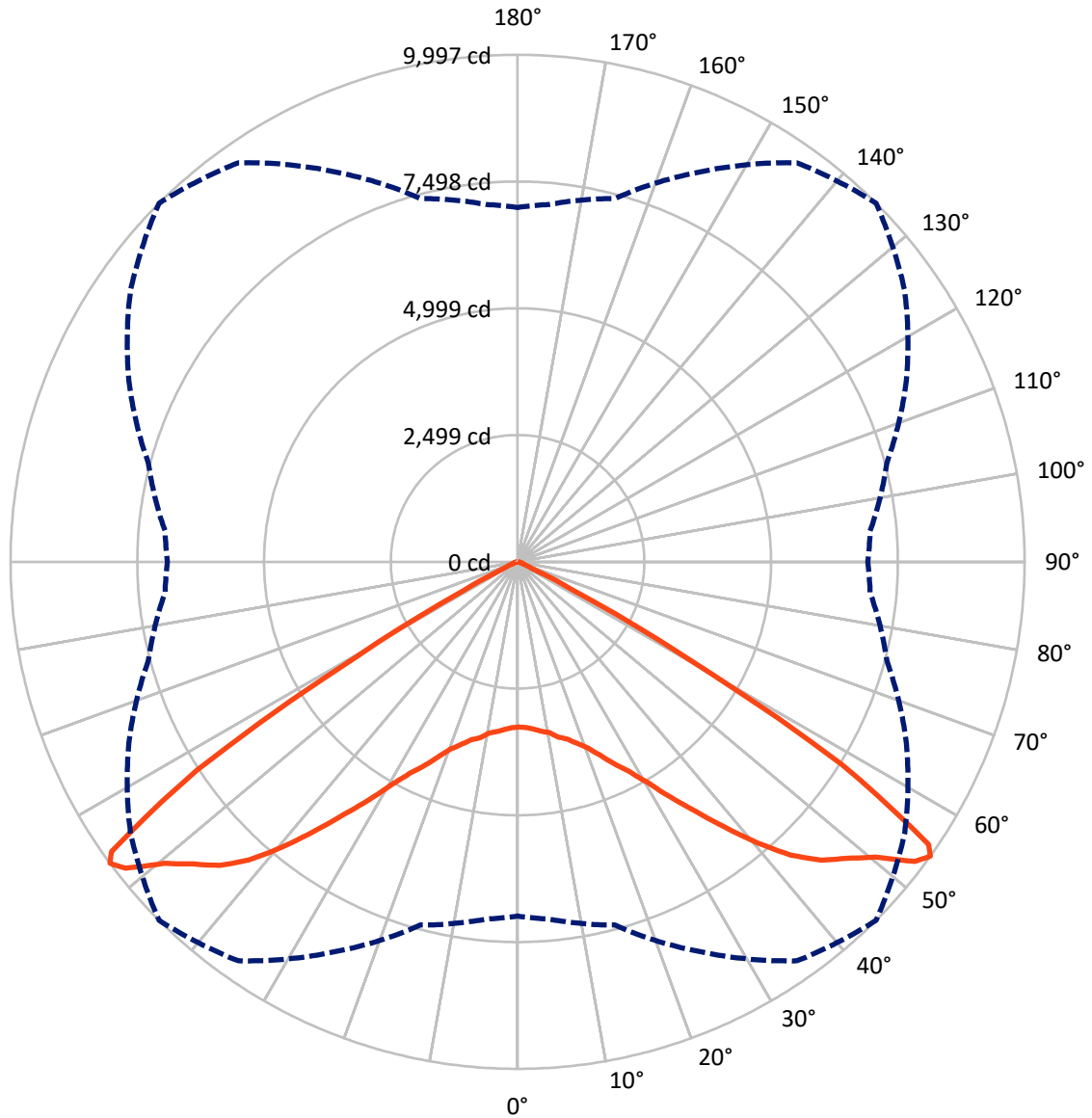
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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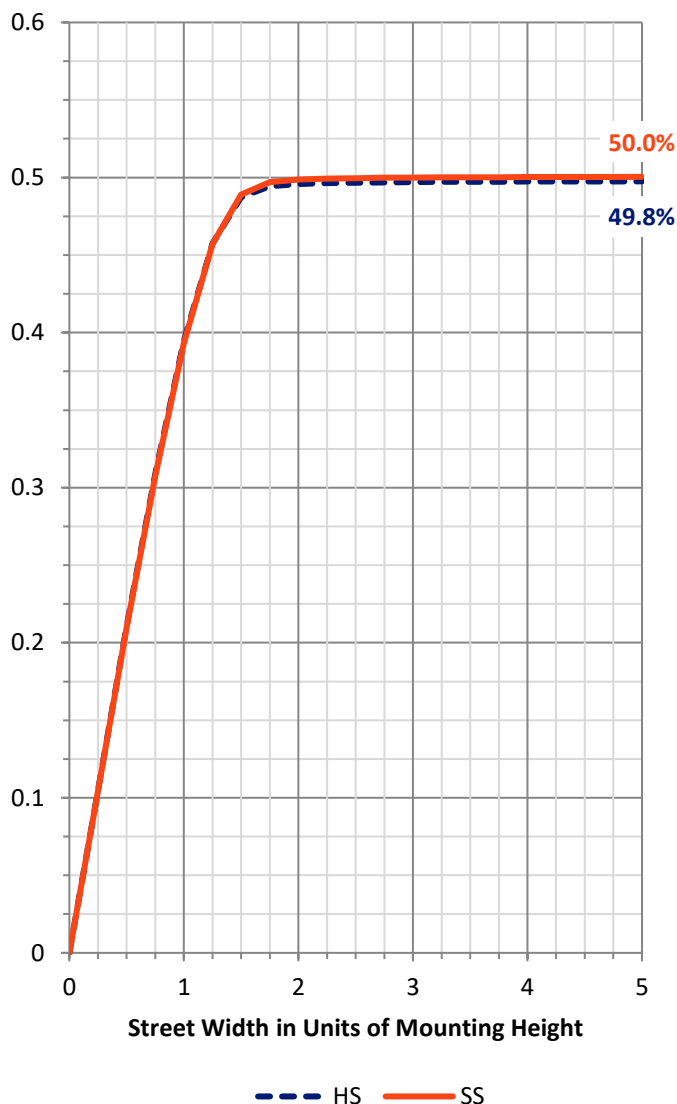
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9931.6	0.0	9931.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9931.6	0.0	9931.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	19863.1	0.0	19863.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.8	1.6
10°-20°	1032.3	5.2
20°-30°	2023.3	10.2
30°-40°	3638.3	18.3
40°-50°	6228.0	31.4
50°-60°	6026.2	30.3
60°-70°	515.9	2.6
70°-80°	61.1	0.3
80°-90°	19.2	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°	19863.1	100.0
0°-180°	19863.1	100.0

Coefficient of Utilization

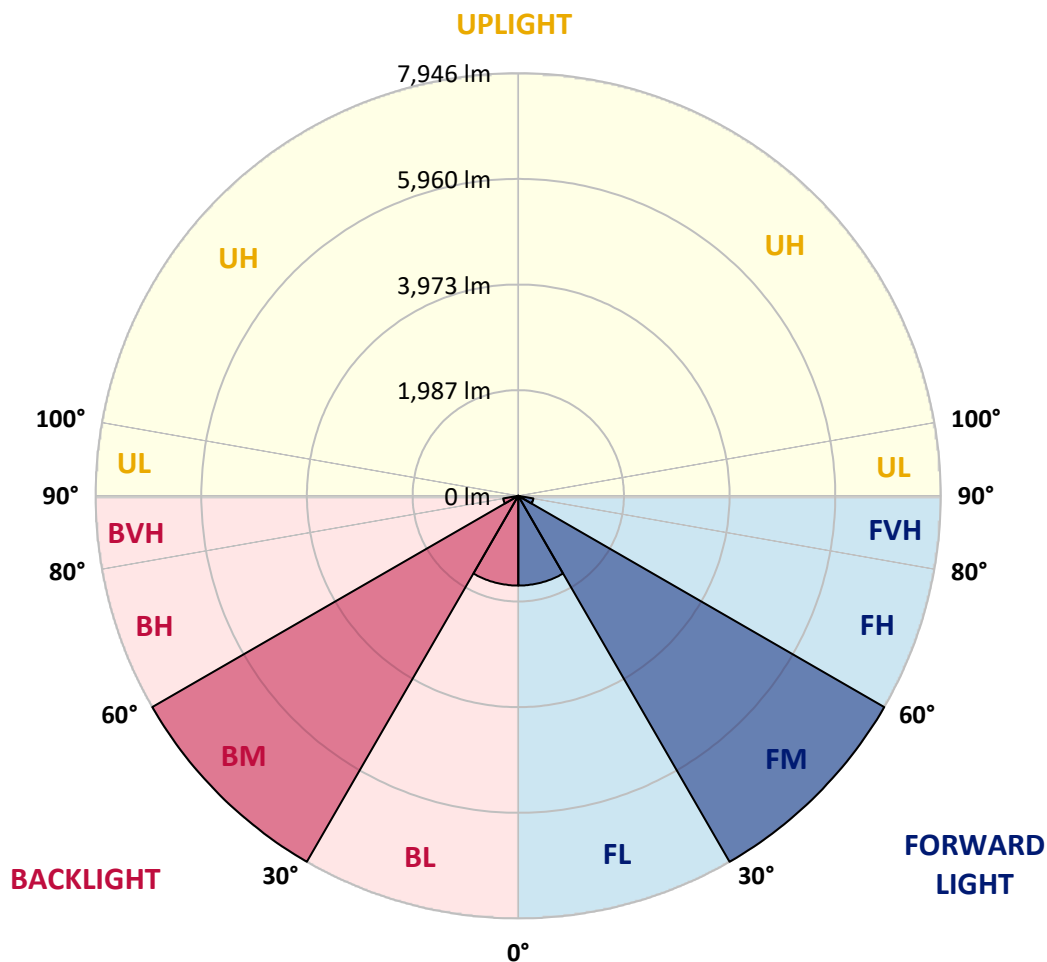


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1687.2	8.5			
FM (30°-60°)	7946.3	40.0			
FH (60°-80°)	288.5	1.5			G0/660
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	1687.2	8.5	B3/2500		
BM (30°-60°)	7946.3	40.0	B4/8500		
BH (60°-80°)	288.5	1.5	B1/500		G0/660
BVH (80°-90°)	9.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0	3257.0
2.5°	3272.7	3291.6	3279.0	3288.4	3288.4	3272.7	3282.1	3244.4	3269.5	3250.6	3253.8
5°	3323.1	3319.8	3319.8	3323.1	3310.4	3316.7	3304.1	3291.6	3282.1	3269.5	3307.3
7.5°	3385.9	3385.9	3363.9	3370.2	3363.9	3373.4	3348.2	3323.1	3313.6	3304.1	3297.8
10°	3445.7	3439.5	3430.0	3458.4	3436.3	3423.7	3411.1	3395.4	3360.8	3348.2	3335.6
12.5°	3533.8	3530.7	3518.1	3546.4	3533.8	3546.4	3499.2	3458.4	3452.0	3411.1	3433.1
15°	3637.7	3666.0	3644.0	3644.0	3637.7	3622.0	3603.1	3584.2	3527.6	3511.8	3515.0
17.5°	3773.0	3763.6	3766.7	3766.7	3798.2	3757.3	3719.5	3672.3	3644.0	3634.5	3603.1
20°	3902.0	3914.6	3911.5	3933.5	3952.3	3908.3	3867.4	3861.1	3782.4	3795.0	3751.0
22.5°	4128.6	4119.1	4134.9	4150.6	4138.1	4131.7	4094.0	4046.8	3977.6	3946.1	3939.8
25°	4367.7	4352.0	4323.7	4361.5	4380.3	4408.7	4336.3	4311.1	4204.2	4156.9	4160.1
27.5°	4572.3	4594.3	4625.8	4641.5	4688.8	4679.3	4628.9	4547.1	4465.3	4411.8	4377.2
30°	4852.3	4864.9	4918.4	4940.5	5022.3	5044.3	4965.6	4871.3	4726.5	4657.3	4616.3
32.5°	5110.4	5198.5	5195.4	5305.5	5437.7	5528.9	5387.4	5242.6	5097.8	5016.0	4943.6
35°	5528.9	5513.2	5604.5	5720.9	5934.8	6038.7	5884.5	5717.7	5497.4	5365.3	5308.7
37.5°	5919.2	5925.4	6048.1	6233.8	6479.2	6639.8	6504.5	6230.6	6004.1	5834.1	5755.5
40°	6485.6	6498.1	6624.0	6834.9	7111.8	7284.9	7127.5	6850.5	6548.5	6416.3	6416.3
42.5°	7149.5	7203.1	7284.9	7467.4	7715.9	7907.9	7766.3	7549.1	7243.9	7074.0	7099.1
45°	7832.3	7857.6	7911.0	8181.6	8298.1	8392.5	8260.3	8159.6	7955.1	7747.4	7712.8
47.5°	8471.2	8480.6	8638.0	8722.9	8814.2	8735.5	8820.5	8688.3	8458.6	8257.2	8216.3
50°	8754.4	8738.7	8962.1	9220.1	9289.4	9150.9	9078.5	8990.4	8641.1	8398.8	8291.8
52.5°	7929.9	8021.2	8436.6	9154.1	9695.3	9811.7	9390.0	8984.1	8332.7	7860.7	7788.3
54°	6985.9	7070.9	7413.8	8477.5	9604.0	9997.3	9317.7	8455.5	7536.6	6976.5	6904.1
55°	6051.3	5956.9	6579.9	7665.6	9176.1	9833.8	9031.3	7772.6	6721.6	6208.6	6107.9
57.5°	3275.8	3291.6	3817.0	4842.9	6447.8	7539.7	6658.6	5258.3	3971.3	3395.4	3345.1
60°	1038.4	1063.6	1293.4	1957.3	3080.7	3678.6	3153.1	2111.5	1460.1	1170.6	1123.4
62.5°	324.1	336.7	368.2	547.6	843.4	1205.2	944.1	566.4	421.6	387.0	393.4
65°	198.3	198.3	201.4	214.0	251.7	292.7	283.2	248.6	239.1	232.9	229.7
67.5°	129.0	125.9	132.2	141.6	147.9	151.0	160.5	169.9	166.8	160.5	160.5
70°	78.7	75.6	81.8	94.4	97.6	103.8	113.3	125.9	122.7	116.4	119.6
72.5°	44.1	44.1	47.2	56.6	66.1	72.3	81.8	91.2	94.4	91.2	91.2
75°	15.7	18.9	25.2	34.6	40.9	50.3	59.8	69.2	78.7	72.3	69.2
77.5°	6.3	6.3	12.6	22.0	31.5	40.9	56.6	66.1	72.3	66.1	59.8
80°	3.1	3.1	9.5	18.9	28.3	37.7	47.2	56.6	59.8	53.5	47.2
82.5°	3.1	3.1	9.5	18.9	28.3	34.6	50.3	56.6	63.0	56.6	47.2
85°	0.0	3.1	9.5	18.9	25.2	28.3	28.3	18.9	15.7	9.5	9.5
87.5°	0.0	0.0	3.1	0.0	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)