

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: P651877

Luminaire Tested: **GALN-SA5A-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17348.1 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

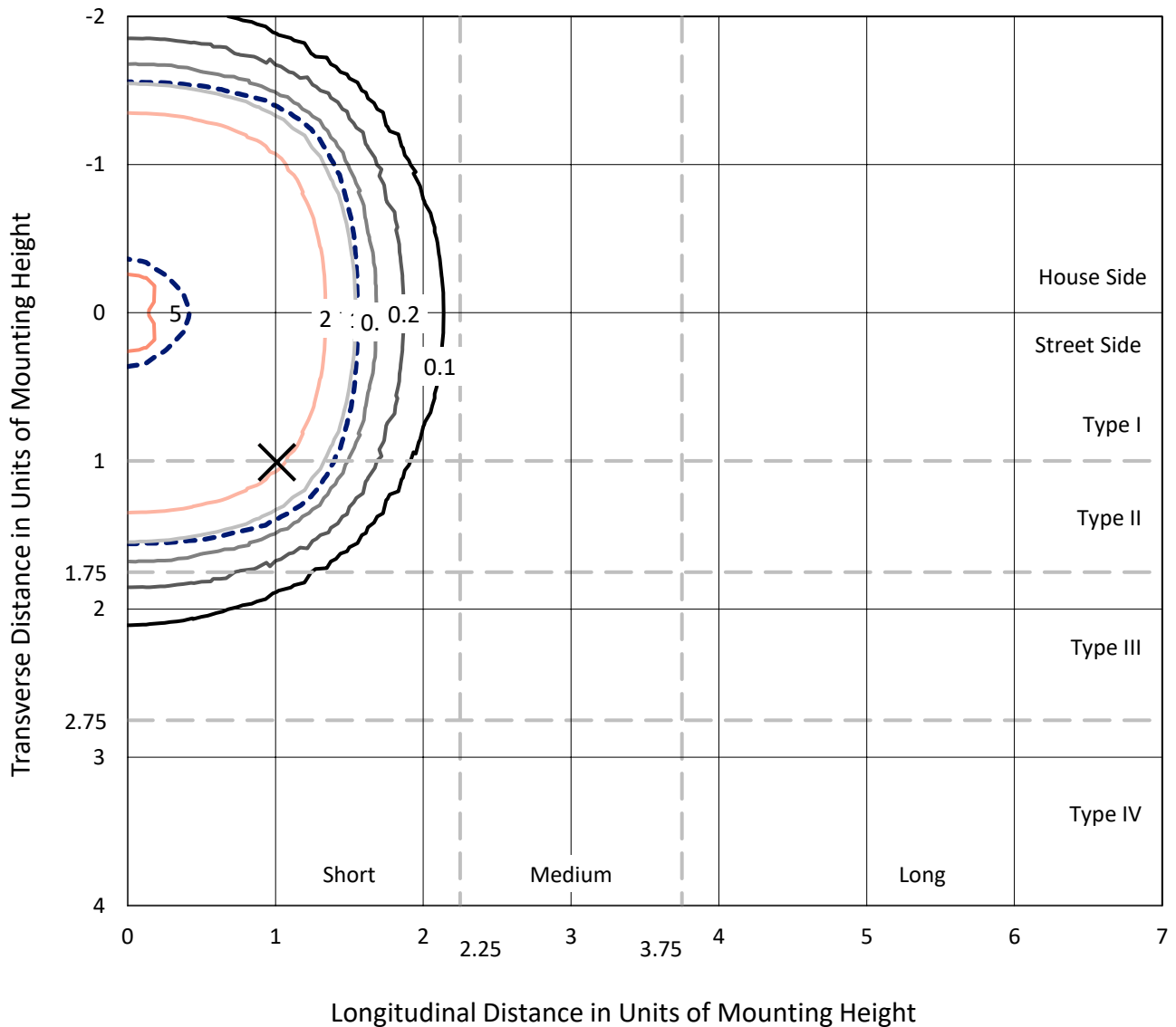
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

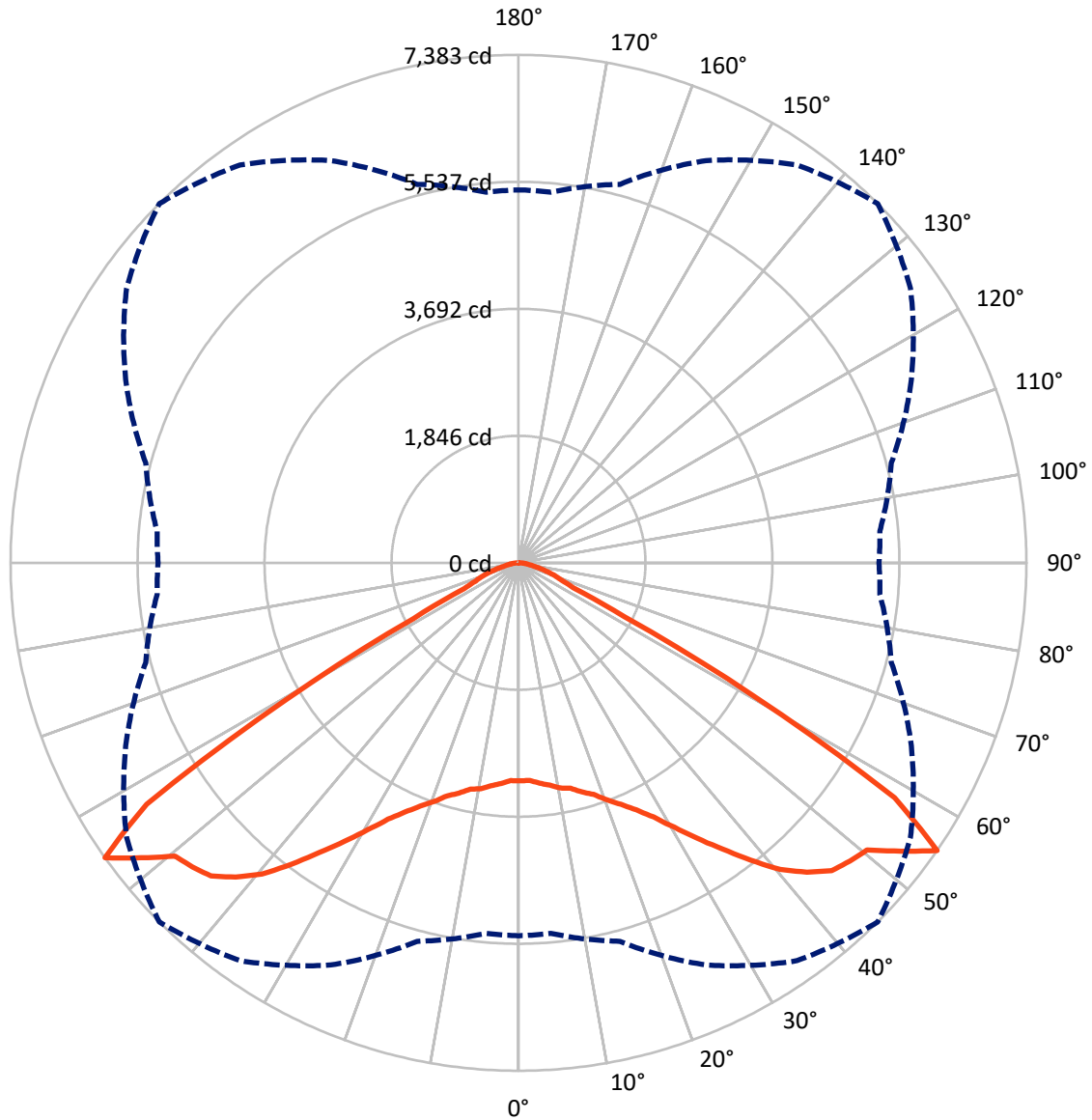
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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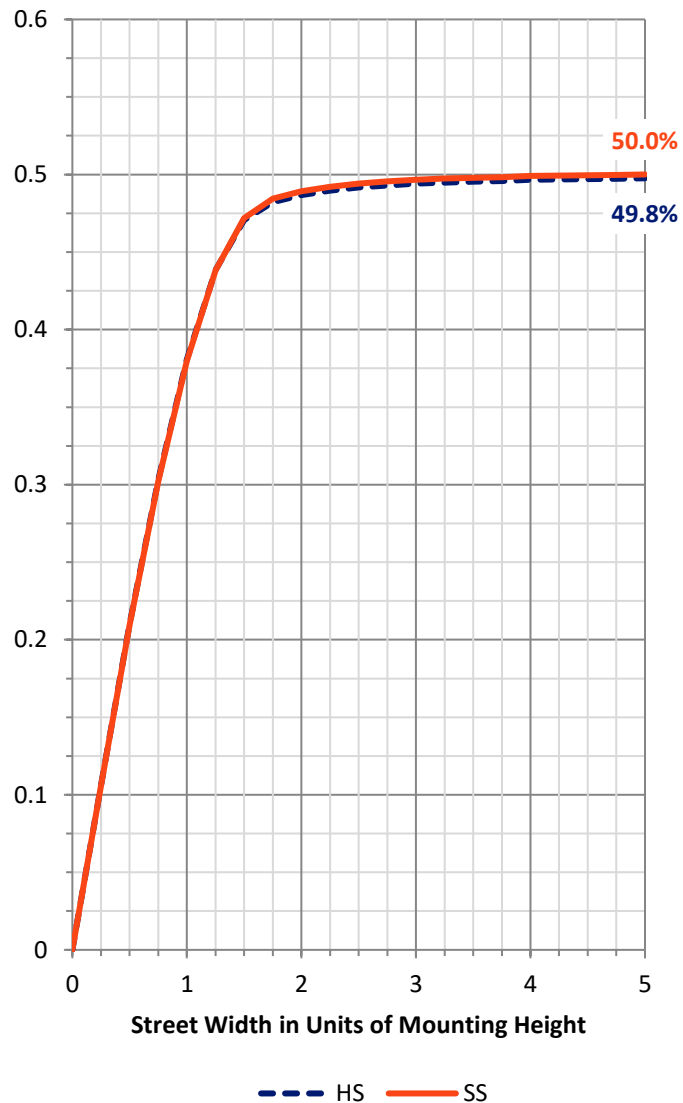
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8674.1	0.0	8674.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8674.1	0.0	8674.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	17348.1	0.0	17348.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.4	1.8
10°-20°	980.4	5.7
20°-30°	1828.2	10.5
30°-40°	3061.0	17.6
40°-50°	4763.2	27.5
50°-60°	4945.7	28.5
60°-70°	1048.8	6.0
70°-80°	345.4	2.0
80°-90°	65.8	0.4
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°	17348.1	100.0
0°-180°	17348.1	100.0

Coefficient of Utilization

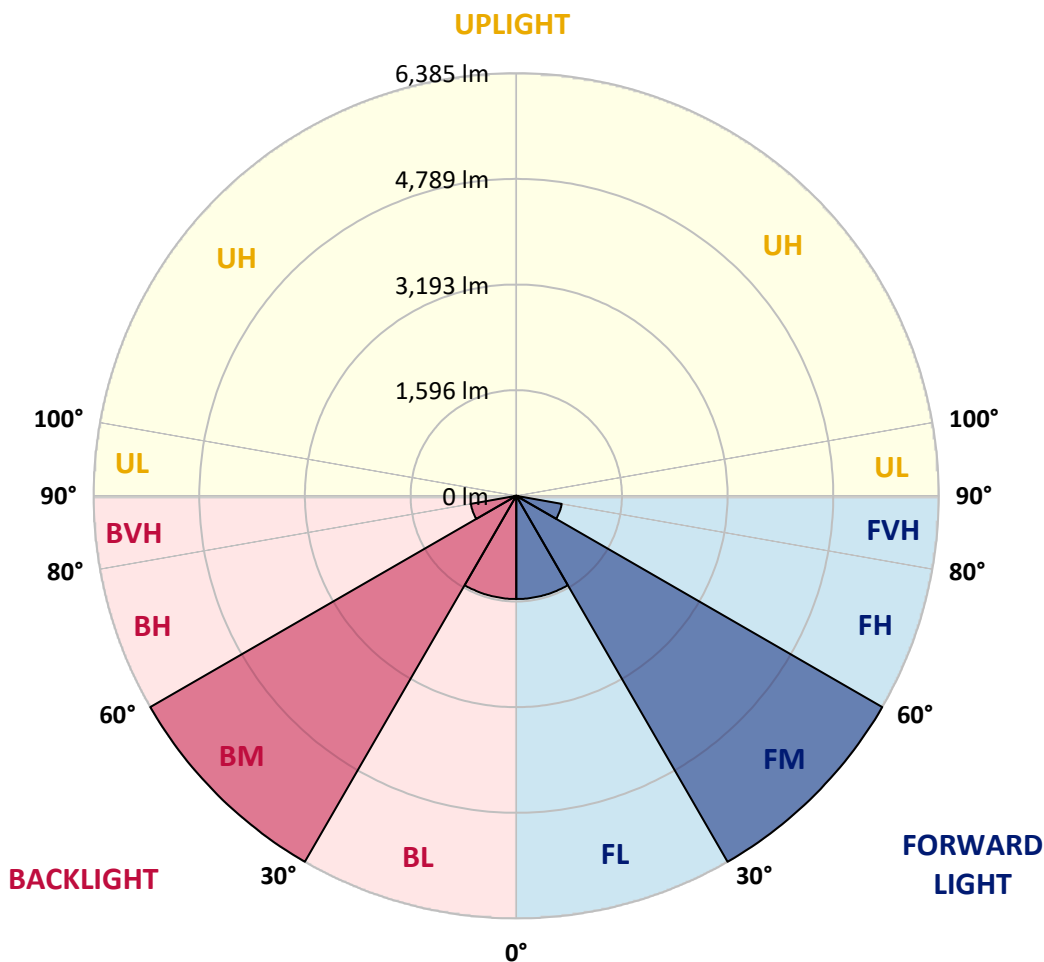


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.1	9.0			
FM (30°-60°)	6385.0	36.8			
FH (60°-80°)	697.1	4.0			G1/1800
FVH (80°-90°)	32.9	0.2			G1/100
BL (0°-30°)	1559.1	9.0	B3/2500		
BM (30°-60°)	6385.0	36.8	B4/8500		
BH (60°-80°)	697.1	4.0	B2/1000		G1/1800
BVH (80°-90°)	32.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3167.5	3167.5	3167.5	3167.5	3167.5	3167.5	3167.5	3167.5	3167.5	3167.5	3167.5
2.5°	3205.2	3190.6	3165.4	3184.3	3199.0	3167.5	3180.1	3186.4	3182.2	3165.4	3171.7
5°	3251.4	3243.0	3222.0	3236.7	3217.8	3217.8	3205.2	3188.5	3213.6	3209.4	3219.9
7.5°	3251.4	3240.9	3282.8	3255.6	3263.9	3263.9	3243.0	3226.2	3238.8	3219.9	3209.4
10°	3316.3	3331.0	3312.2	3318.4	3314.2	3328.9	3297.5	3287.0	3276.5	3270.2	3257.6
12.5°	3393.9	3383.4	3389.7	3385.5	3400.2	3362.5	3343.6	3320.5	3339.4	3312.2	3331.0
15°	3456.8	3450.5	3456.8	3473.6	3458.9	3456.8	3423.3	3400.2	3370.9	3377.1	3347.8
17.5°	3542.7	3536.5	3538.6	3553.2	3551.1	3540.7	3515.5	3471.5	3461.0	3444.2	3425.4
20°	3670.6	3660.1	3655.9	3662.2	3672.7	3681.1	3630.8	3614.0	3578.4	3551.1	3519.7
22.5°	3779.6	3775.4	3792.2	3765.0	3788.0	3813.2	3765.0	3756.6	3668.5	3653.9	3620.3
25°	3930.6	3924.3	3913.8	3953.6	3980.9	3978.8	3932.7	3886.5	3819.5	3802.7	3802.7
27.5°	4089.9	4054.2	4108.8	4119.2	4167.5	4182.1	4142.3	4075.2	4012.3	3976.7	3985.1
30°	4289.0	4255.5	4268.1	4343.5	4406.4	4460.9	4360.3	4261.8	4173.7	4110.8	4100.4
32.5°	4488.2	4454.6	4492.4	4565.7	4691.5	4773.3	4674.8	4502.9	4400.1	4307.9	4326.8
35°	4649.6	4674.8	4735.6	4846.7	4976.6	5108.7	4951.5	4819.4	4672.7	4569.9	4584.6
37.5°	4909.5	4987.1	5035.3	5163.2	5347.7	5483.9	5320.4	5148.5	4991.3	4857.1	4811.0
40°	5249.1	5301.6	5356.1	5507.0	5725.0	5861.3	5706.1	5481.8	5326.7	5188.4	5182.1
42.5°	5622.3	5672.6	5729.2	5913.7	6043.7	6146.4	6003.8	5884.3	5712.4	5603.4	5597.1
45°	6056.2	6020.6	6083.5	6205.1	6314.1	6381.2	6288.9	6230.2	6106.5	6005.9	5995.4
47.5°	6345.5	6314.1	6427.3	6536.3	6553.1	6479.7	6498.6	6553.1	6423.1	6257.5	6309.9
50°	6513.2	6513.2	6588.6	6689.3	6657.9	6563.5	6712.4	6716.6	6586.5	6439.9	6439.9
52.5°	6221.8	6286.8	6500.6	6829.8	6934.5	6961.8	6928.2	6785.7	6446.1	6146.4	6131.6
55°	5421.0	5406.4	5695.7	6450.3	7060.4	7383.1	6955.5	6299.4	5609.7	5272.2	5238.7
57.5°	3526.0	3542.7	3974.6	4743.9	5844.5	6446.1	5725.0	4802.6	3974.6	3509.2	3553.2
60°	1586.9	1643.5	1905.5	2479.9	3425.4	3915.9	3433.7	2605.7	1999.9	1735.7	1758.8
62.5°	911.9	922.4	932.8	1106.8	1459.1	1725.2	1515.7	1169.7	1031.4	985.2	985.2
65°	769.3	763.0	765.1	779.9	817.5	872.0	849.0	817.5	821.7	817.5	811.2
67.5°	654.0	662.5	656.1	666.7	668.7	677.1	691.8	704.3	706.4	710.6	706.4
70°	536.6	538.7	542.9	551.4	553.5	559.7	580.7	591.1	597.4	597.4	605.9
72.5°	410.9	408.8	412.9	421.3	431.9	434.0	452.8	467.5	475.8	465.4	467.5
75°	270.4	272.5	278.8	285.1	299.7	314.4	320.8	335.4	337.5	341.7	331.2
77.5°	161.4	165.6	171.9	184.5	197.0	209.7	224.3	234.8	239.0	234.8	222.2
80°	104.8	104.8	113.2	123.7	138.3	148.9	157.2	165.6	171.9	165.6	161.4
82.5°	65.0	65.0	75.4	88.1	98.6	104.8	117.4	127.9	134.1	129.9	123.7
85°	33.6	35.7	44.0	54.5	62.9	67.1	65.0	58.7	52.4	50.3	46.1
87.5°	10.5	10.5	12.6	12.6	10.5	10.5	12.6	10.5	12.6	12.6	12.6
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)