

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: P652316

Luminaire Tested: **GALN-SA4B-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652316
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-SA4B-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA 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: 13005.2 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

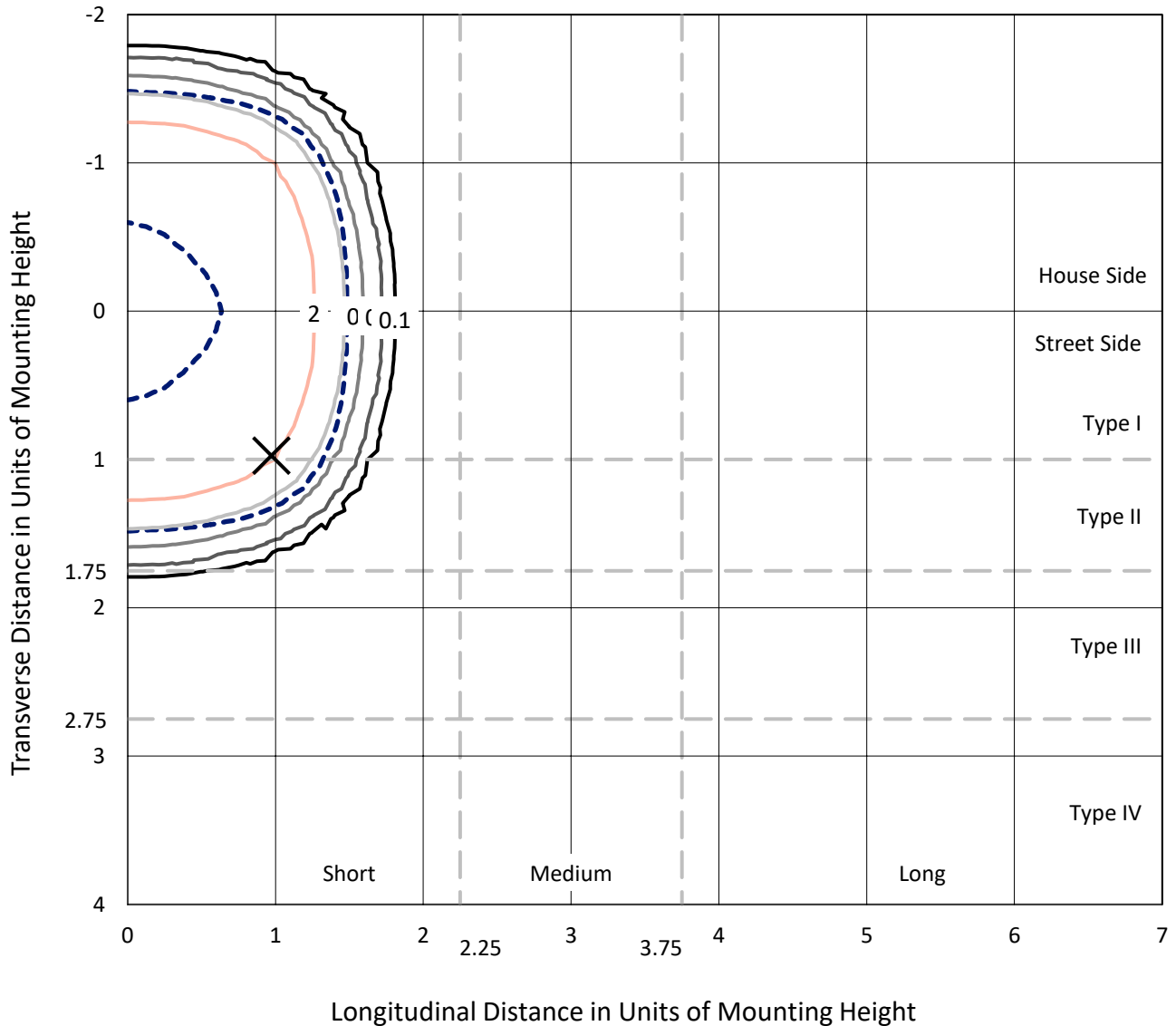
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

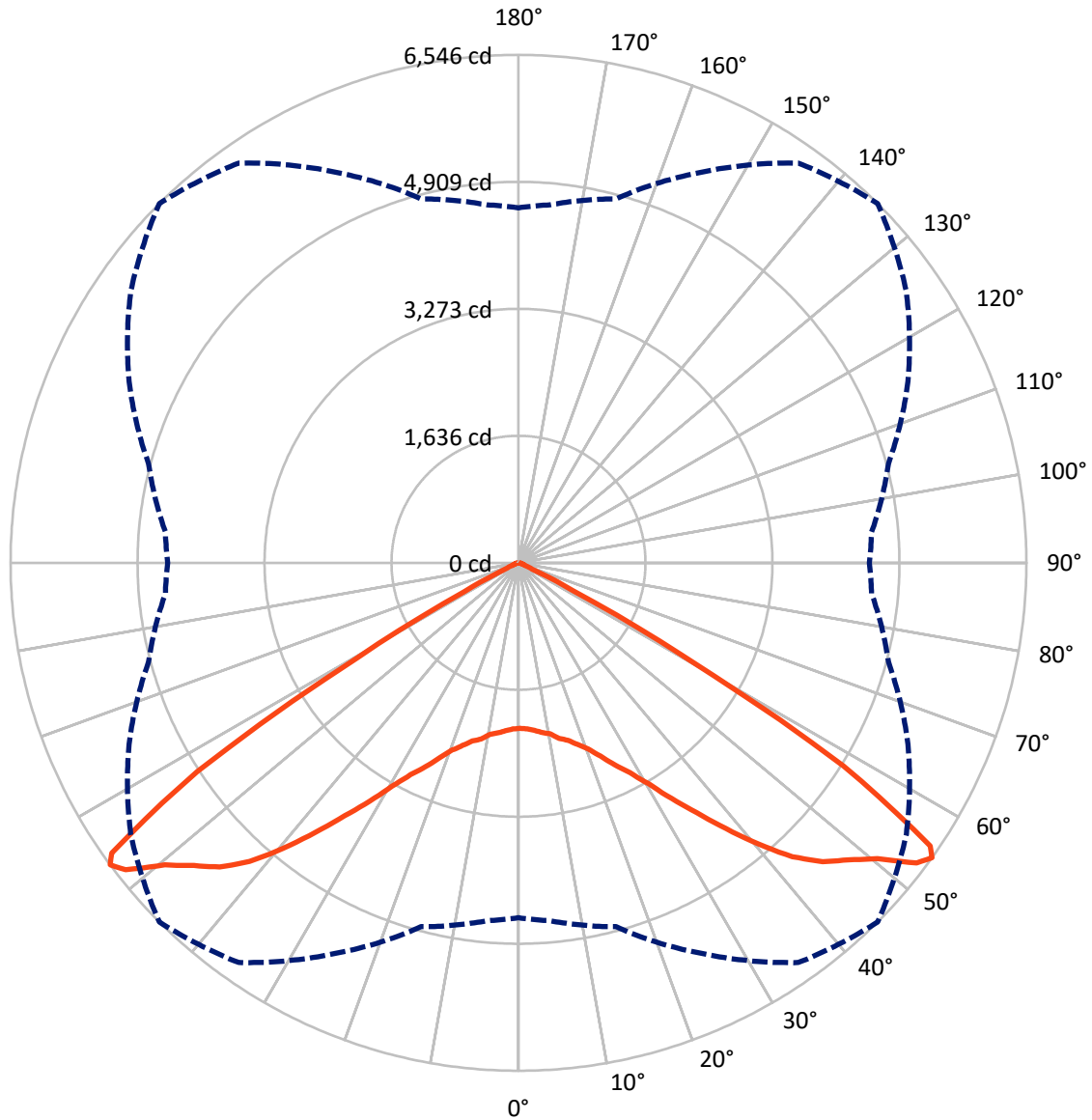
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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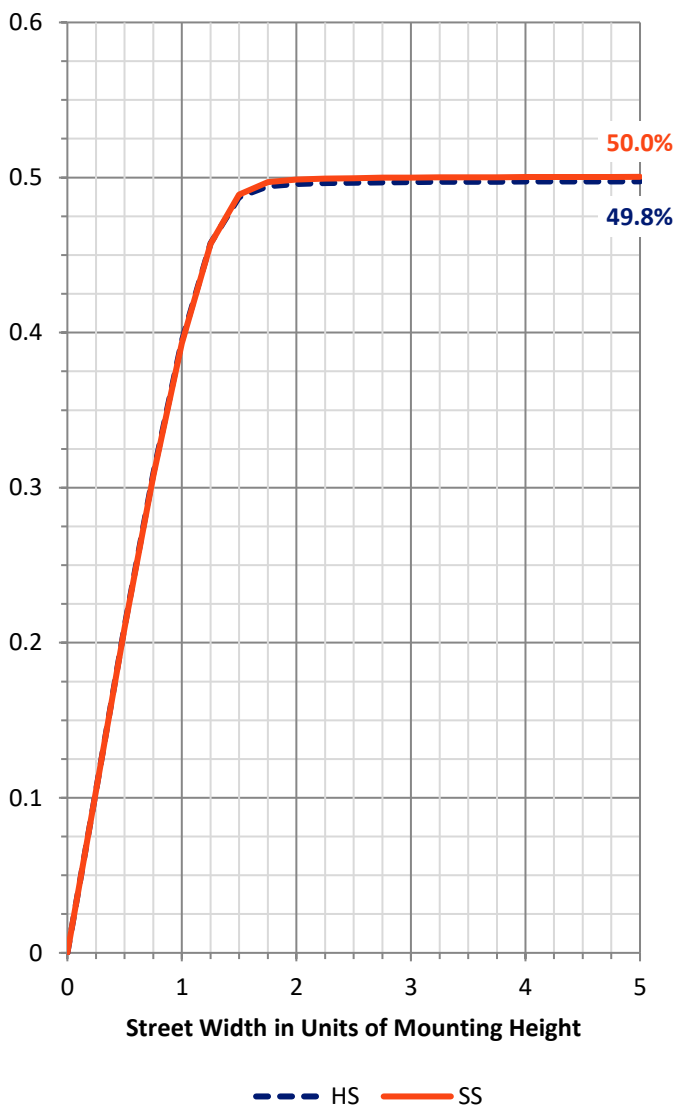
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6502.6	0.0	6502.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6502.6	0.0	6502.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	13005.2	0.0	13005.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	1.6
10°-20°	675.9	5.2
20°-30°	1324.7	10.2
30°-40°	2382.1	18.3
40°-50°	4077.8	31.4
50°-60°	3945.6	30.3
60°-70°	337.8	2.6
70°-80°	40.0	0.3
80°-90°	12.5	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°	13005.2	100.0
0°-180°	13005.2	100.0

Coefficient of Utilization

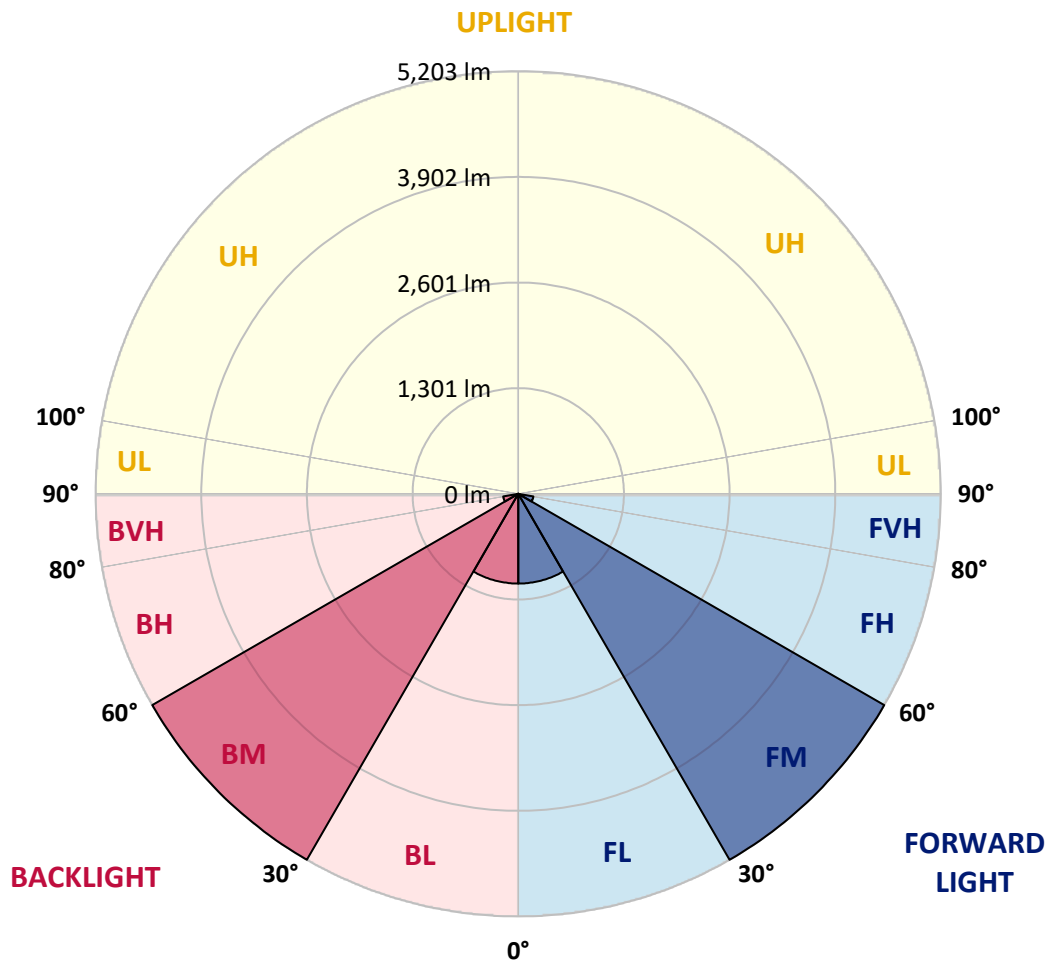


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1104.7	8.5			
FM (30°-60°)	5202.8	40.0			
FH (60°-80°)	188.9	1.5			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	1104.7	8.5	B3/2500		
BM (30°-60°)	5202.8	40.0	B4/8500		
BH (60°-80°)	188.9	1.5	B1/500		G0/660
BVH (80°-90°)	6.3	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°	2132.4	2132.4	2132.4	2132.4	2132.4	2132.4	2132.4	2132.4	2132.4	2132.4	2132.4
2.5°	2142.8	2155.1	2146.9	2153.0	2153.0	2142.8	2148.9	2124.2	2140.7	2128.3	2130.4
5°	2175.8	2173.6	2173.6	2175.8	2167.5	2171.6	2163.4	2155.1	2148.9	2140.7	2165.4
7.5°	2217.0	2217.0	2202.5	2206.6	2202.5	2208.7	2192.2	2175.8	2169.5	2163.4	2159.3
10°	2256.1	2251.9	2245.8	2264.3	2249.9	2241.7	2233.4	2223.1	2200.5	2192.2	2184.0
12.5°	2313.8	2311.7	2303.5	2322.0	2313.8	2322.0	2291.1	2264.3	2260.2	2233.4	2247.8
15°	2381.7	2400.3	2385.8	2385.8	2381.7	2371.5	2359.1	2346.7	2309.6	2299.4	2301.4
17.5°	2470.4	2464.1	2466.2	2466.2	2486.8	2460.0	2435.3	2404.4	2385.8	2379.7	2359.1
20°	2554.8	2563.0	2561.0	2575.4	2587.8	2558.9	2532.2	2528.0	2476.5	2484.7	2455.9
22.5°	2703.1	2697.0	2707.3	2717.6	2709.4	2705.2	2680.5	2649.6	2604.2	2583.6	2579.5
25°	2859.7	2849.5	2830.9	2855.6	2868.0	2886.6	2839.1	2822.6	2752.6	2721.7	2723.7
27.5°	2993.7	3008.1	3028.7	3039.0	3069.9	3063.8	3030.8	2977.2	2923.7	2888.6	2866.0
30°	3177.0	3185.3	3220.3	3234.7	3288.3	3302.7	3251.2	3189.4	3094.6	3049.3	3022.6
32.5°	3346.0	3403.7	3401.6	3473.8	3560.3	3620.0	3527.3	3432.5	3337.8	3284.2	3236.8
35°	3620.0	3609.7	3669.5	3745.7	3885.8	3953.8	3852.9	3743.6	3599.4	3512.9	3475.8
37.5°	3875.5	3879.6	3959.9	4081.5	4242.3	4347.3	4258.7	4079.4	3931.1	3819.9	3768.4
40°	4246.4	4254.6	4337.0	4475.0	4656.4	4769.6	4666.7	4485.4	4287.6	4201.0	4201.0
42.5°	4681.1	4716.1	4769.6	4889.2	5052.0	5177.6	5084.9	4942.7	4742.9	4631.6	4648.1
45°	5128.2	5144.6	5179.7	5356.9	5433.1	5494.9	5408.4	5342.5	5208.6	5072.6	5049.9
47.5°	5546.4	5552.6	5655.6	5711.2	5771.0	5719.5	5775.1	5688.6	5538.2	5406.4	5379.5
50°	5731.8	5721.6	5867.8	6036.8	6082.1	5991.5	5944.1	5886.4	5657.7	5499.0	5429.0
52.5°	5192.1	5251.8	5523.8	5993.6	6347.9	6424.1	6148.0	5882.3	5455.8	5146.8	5099.3
54°	4573.9	4629.6	4854.2	5550.5	6288.2	6545.7	6100.7	5536.1	4934.5	4567.8	4520.4
55°	3962.0	3900.2	4308.2	5019.0	6007.9	6438.5	5913.2	5089.1	4400.9	4065.1	3999.1
57.5°	2144.8	2155.1	2499.2	3170.8	4221.7	4936.6	4359.7	3442.8	2600.1	2223.1	2190.1
60°	679.9	696.4	846.8	1281.5	2017.1	2408.5	2064.5	1382.5	956.0	766.5	735.5
62.5°	212.2	220.4	241.0	358.5	552.2	789.1	618.1	370.9	276.1	253.4	257.5
65°	129.8	129.8	131.9	140.1	164.8	191.6	185.4	162.7	156.6	152.5	150.4
67.5°	84.4	82.4	86.5	92.7	96.8	98.9	105.0	111.3	109.2	105.0	105.0
70°	51.5	49.5	53.6	61.8	63.8	68.0	74.2	82.4	80.3	76.2	78.3
72.5°	28.8	28.8	30.9	37.1	43.2	47.3	53.6	59.7	61.8	59.7	59.7
75°	10.3	12.4	16.5	22.6	26.7	33.0	39.1	45.3	51.5	47.3	45.3
77.5°	4.1	4.1	8.2	14.4	20.6	26.7	37.1	43.2	47.3	43.2	39.1
80°	2.0	2.0	6.1	12.4	18.5	24.7	30.9	37.1	39.1	35.0	30.9
82.5°	2.0	2.0	6.1	12.4	18.5	22.6	33.0	37.1	41.2	37.1	30.9
85°	0.0	2.0	6.1	12.4	16.5	18.5	18.5	12.4	10.3	6.1	6.1
87.5°	0.0	0.0	2.0	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)