

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: P651876

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651876
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-SA5A-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 13231.4 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

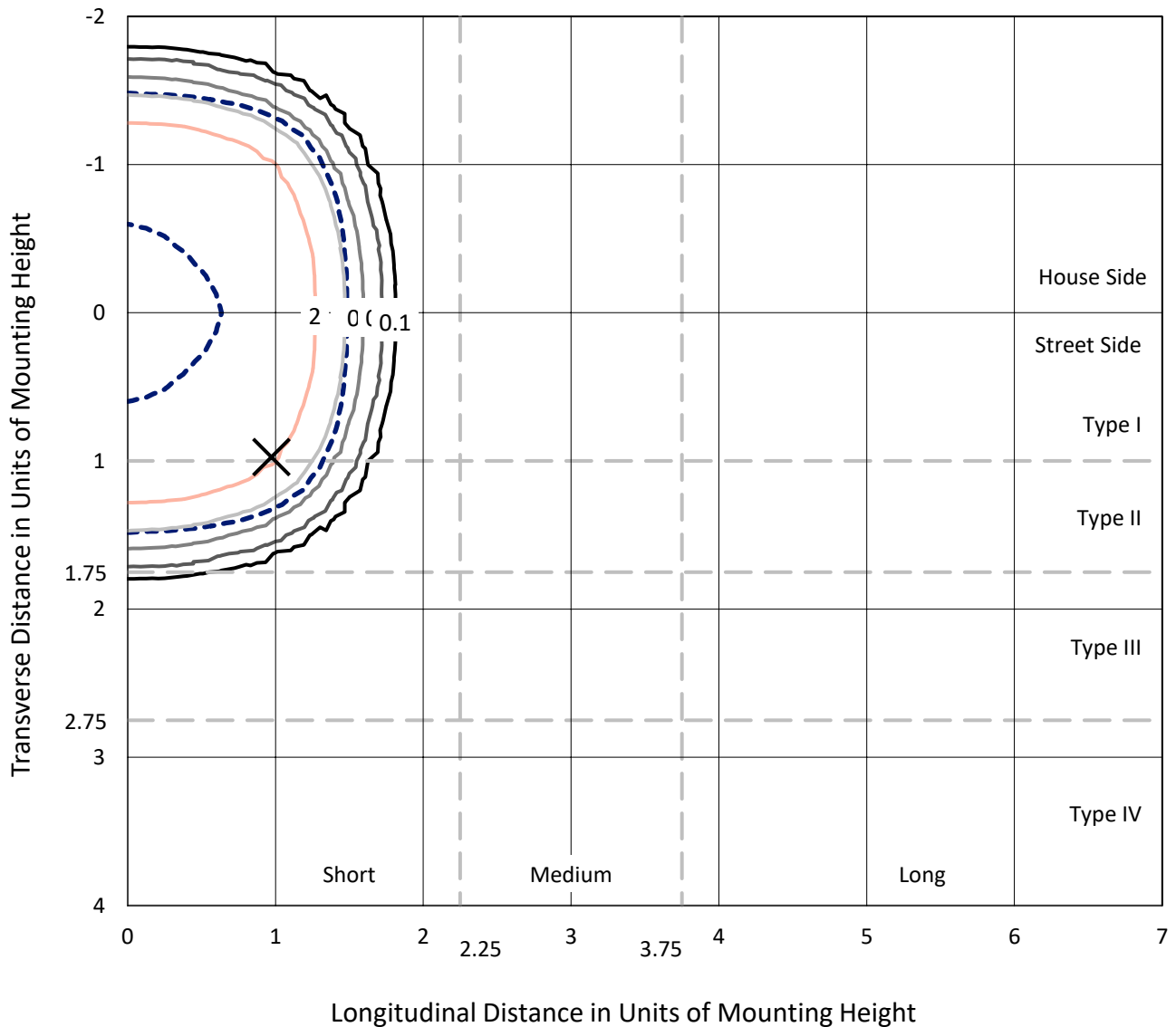
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

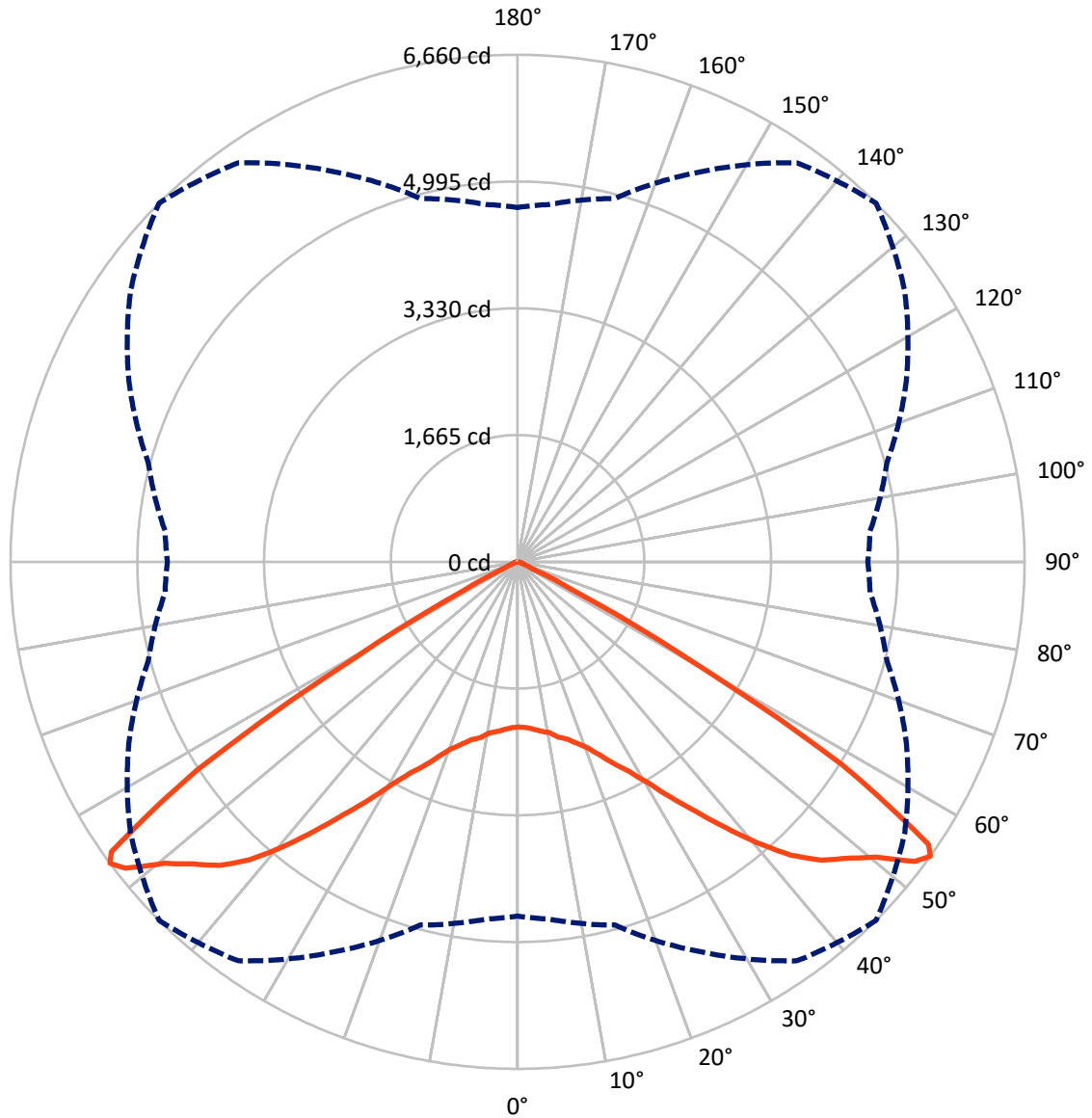
× Max cd
 - - - 1/2 Max cd



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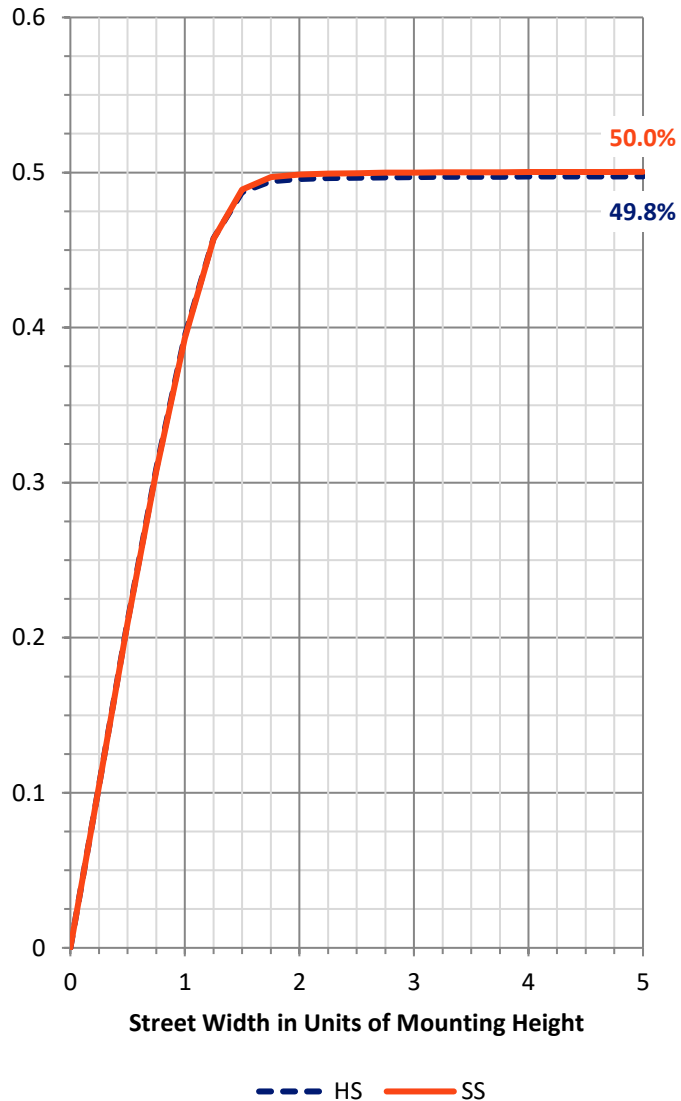
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6615.7	0.0	6615.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6615.7	0.0	6615.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	13231.4	0.0	13231.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	1.6
10°-20°	687.7	5.2
20°-30°	1347.8	10.2
30°-40°	2423.6	18.3
40°-50°	4148.7	31.4
50°-60°	4014.3	30.3
60°-70°	343.6	2.6
70°-80°	40.7	0.3
80°-90°	12.8	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°	13231.4	100.0
0°-180°	13231.4	100.0

Coefficient of Utilization

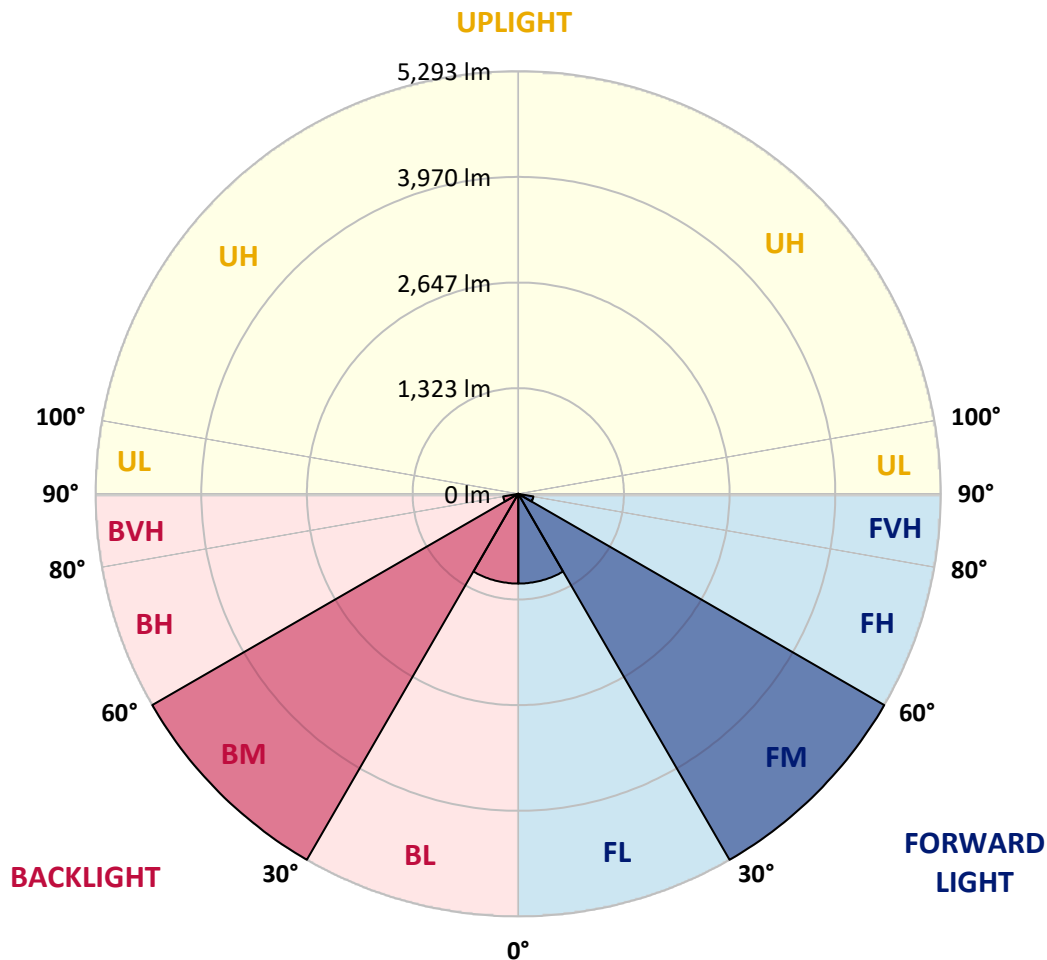


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1123.9	8.5			
FM (30°-60°)	5293.3	40.0			
FH (60°-80°)	192.2	1.5			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	1123.9	8.5	B3/2500		
BM (30°-60°)	5293.3	40.0	B4/8500		
BH (60°-80°)	192.2	1.5	B1/500		G0/660
BVH (80°-90°)	6.4	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°	2169.5	2169.5	2169.5	2169.5	2169.5	2169.5	2169.5	2169.5	2169.5	2169.5	2169.5
2.5°	2180.0	2192.6	2184.2	2190.5	2190.5	2180.0	2186.3	2161.2	2177.9	2165.3	2167.4
5°	2213.6	2211.5	2211.5	2213.6	2205.2	2209.4	2201.0	2192.6	2186.3	2177.9	2203.1
7.5°	2255.5	2255.5	2240.8	2245.0	2240.8	2247.1	2230.3	2213.6	2207.3	2201.0	2196.8
10°	2295.3	2291.1	2284.8	2303.7	2289.0	2280.6	2272.3	2261.8	2238.7	2230.3	2221.9
12.5°	2354.0	2351.9	2343.5	2362.4	2354.0	2362.4	2330.9	2303.7	2299.5	2272.3	2286.9
15°	2423.2	2442.0	2427.4	2427.4	2423.2	2412.7	2400.1	2387.5	2349.8	2339.3	2341.4
17.5°	2513.3	2507.0	2509.1	2509.1	2530.1	2502.8	2477.7	2446.2	2427.4	2421.1	2400.1
20°	2599.3	2607.7	2605.6	2620.2	2632.8	2603.5	2576.2	2572.0	2519.6	2528.0	2498.6
22.5°	2750.2	2743.9	2754.4	2764.9	2756.5	2752.3	2727.1	2695.7	2649.6	2628.6	2624.4
25°	2909.5	2899.0	2880.2	2905.3	2917.8	2936.8	2888.5	2871.8	2800.5	2769.1	2771.2
27.5°	3045.8	3060.4	3081.4	3091.9	3123.3	3117.0	3083.4	3028.9	2974.4	2938.9	2915.7
30°	3232.3	3240.7	3276.4	3291.0	3345.5	3360.2	3307.7	3244.9	3148.5	3102.4	3075.1
32.5°	3404.2	3462.9	3460.8	3534.1	3622.2	3683.0	3588.6	3492.3	3395.8	3341.3	3293.1
35°	3683.0	3672.5	3733.3	3810.8	3953.4	4022.6	3919.8	3808.7	3662.1	3574.0	3536.2
37.5°	3942.9	3947.1	4028.9	4152.5	4316.0	4422.9	4332.8	4150.4	3999.5	3886.3	3834.0
40°	4320.2	4328.6	4412.5	4552.9	4737.4	4852.7	4747.9	4563.4	4362.2	4274.1	4274.1
42.5°	4762.5	4798.2	4852.7	4974.3	5139.9	5267.7	5173.4	5028.8	4825.4	4712.2	4728.9
45°	5217.4	5234.1	5269.8	5450.1	5527.6	5590.5	5502.5	5435.4	5299.1	5160.8	5137.8
47.5°	5642.9	5649.2	5754.0	5810.6	5871.4	5819.0	5875.6	5787.6	5634.5	5500.4	5473.1
50°	5831.6	5821.1	5969.9	6141.8	6187.9	6095.7	6047.5	5988.8	5756.1	5594.7	5523.4
52.5°	5282.4	5343.1	5619.9	6097.8	6458.3	6535.9	6255.0	5984.6	5550.7	5236.2	5188.0
54°	4653.5	4710.1	4938.6	5647.1	6397.6	6659.5	6206.7	5632.4	5020.3	4647.2	4599.0
55°	4030.9	3968.1	4383.1	5106.3	6112.5	6550.5	6016.0	5177.5	4477.4	4135.8	4068.7
57.5°	2182.1	2192.6	2542.7	3226.0	4295.1	5022.5	4435.5	3502.7	2645.4	2261.8	2228.2
60°	691.7	708.5	861.5	1303.8	2052.1	2450.4	2100.4	1406.6	972.6	779.8	748.3
62.5°	215.9	224.3	245.2	364.7	561.8	802.8	628.8	377.3	280.9	257.9	262.1
65°	132.0	132.0	134.1	142.5	167.7	194.9	188.6	165.6	159.3	155.1	153.1
67.5°	86.0	83.8	88.1	94.4	98.5	100.6	106.9	113.2	111.1	106.9	106.9
70°	52.4	50.3	54.5	62.9	65.0	69.2	75.4	83.8	81.7	77.5	79.6
72.5°	29.4	29.4	31.5	37.8	44.0	48.2	54.5	60.8	62.9	60.8	60.8
75°	10.5	12.6	16.7	23.0	27.2	33.6	39.9	46.1	52.4	48.2	46.1
77.5°	4.2	4.2	8.4	14.6	20.9	27.2	37.8	44.0	48.2	44.0	39.9
80°	2.1	2.1	6.3	12.6	18.8	25.1	31.5	37.8	39.9	35.7	31.5
82.5°	2.1	2.1	6.3	12.6	18.8	23.0	33.6	37.8	41.9	37.8	31.5
85°	0.0	2.1	6.3	12.6	16.7	18.8	18.8	12.6	10.5	6.3	6.3
87.5°	0.0	0.0	2.1	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)