

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: P650841

Luminaire Tested: **GALN-SA4C-840-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15115.3 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

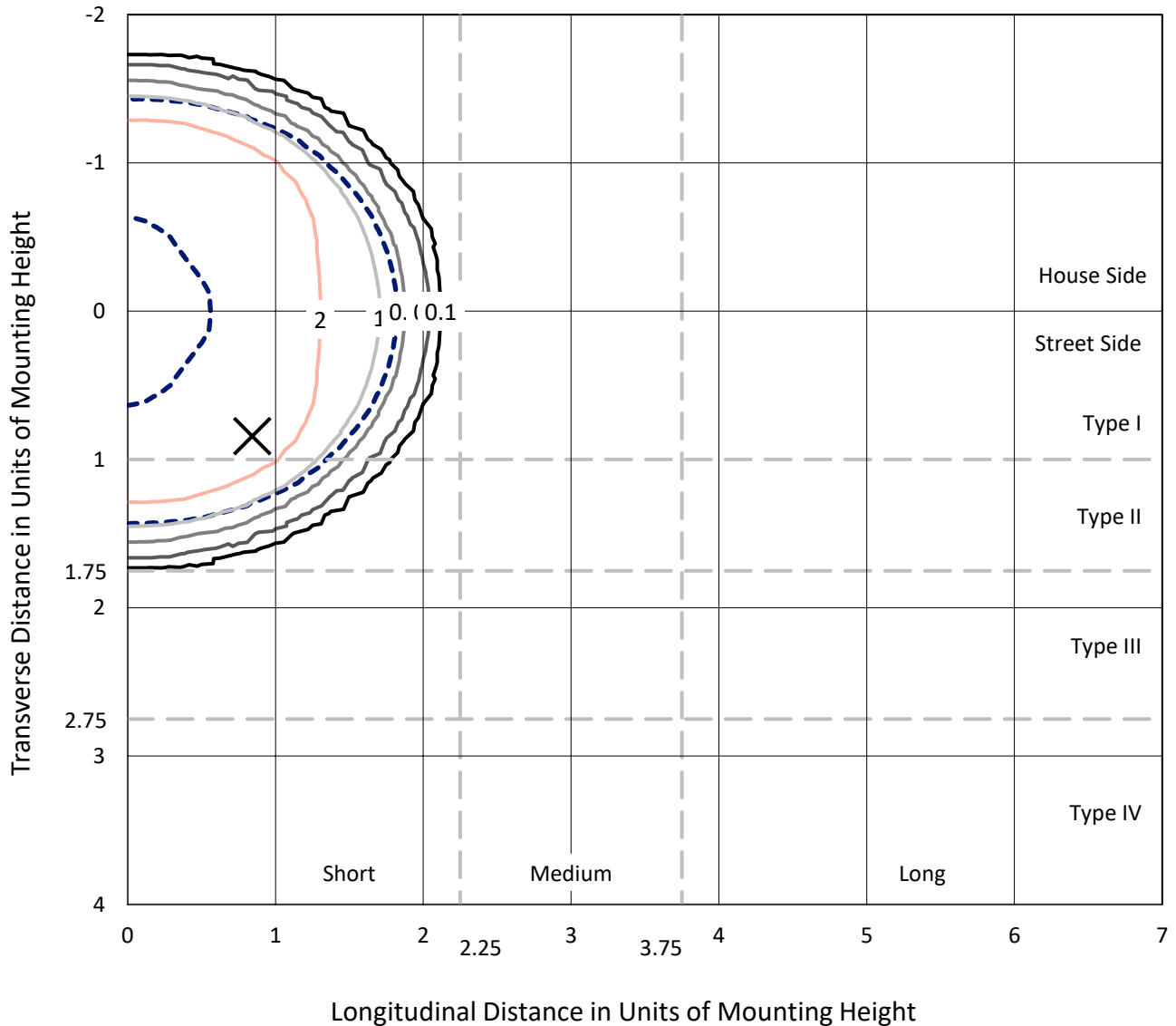
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

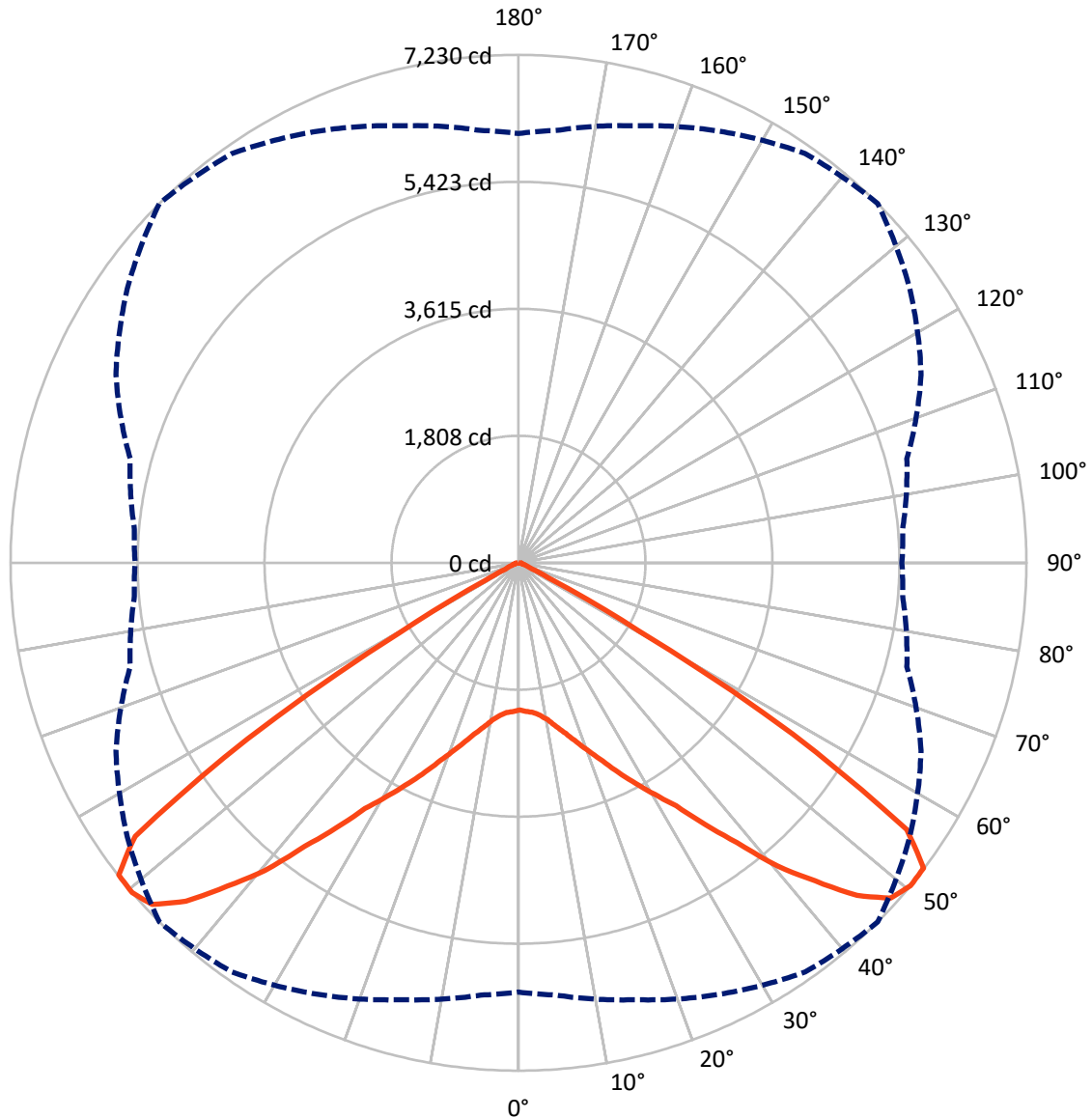
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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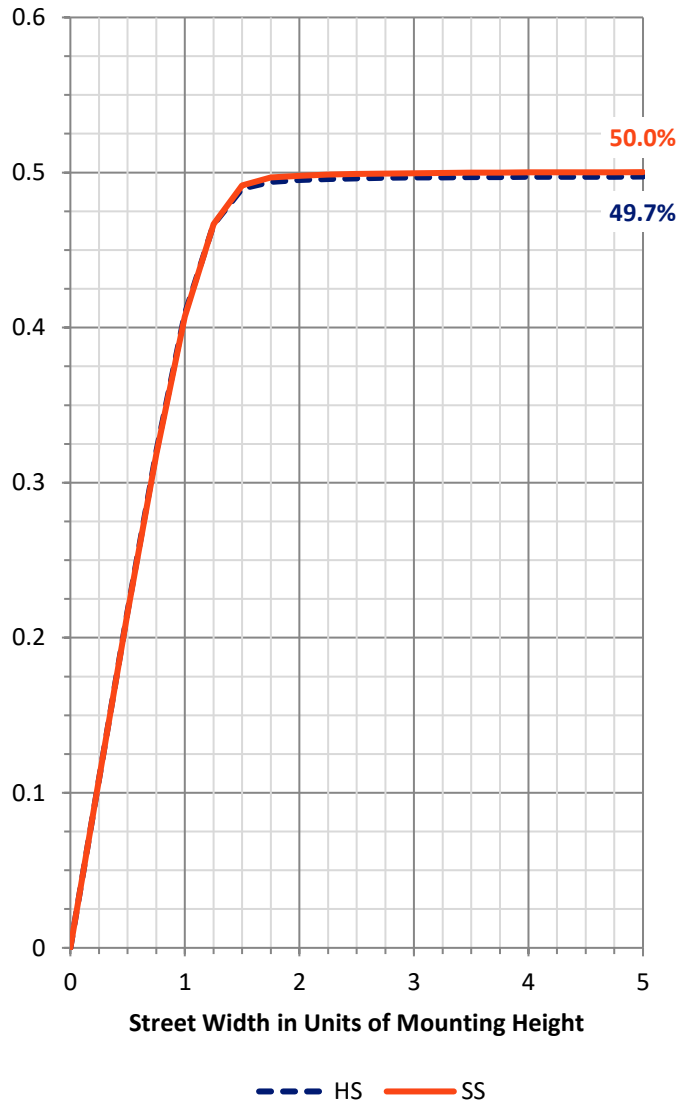
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7557.6	0.0	7557.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7557.6	0.0	7557.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	15115.3	0.0	15115.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	1.4
10°-20°	718.5	4.8
20°-30°	1467.5	9.7
30°-40°	2798.6	18.5
40°-50°	4716.0	31.2
50°-60°	4497.6	29.8
60°-70°	627.8	4.2
70°-80°	60.0	0.4
80°-90°	20.7	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°	15115.3	100.0
0°-180°	15115.3	100.0

Coefficient of Utilization



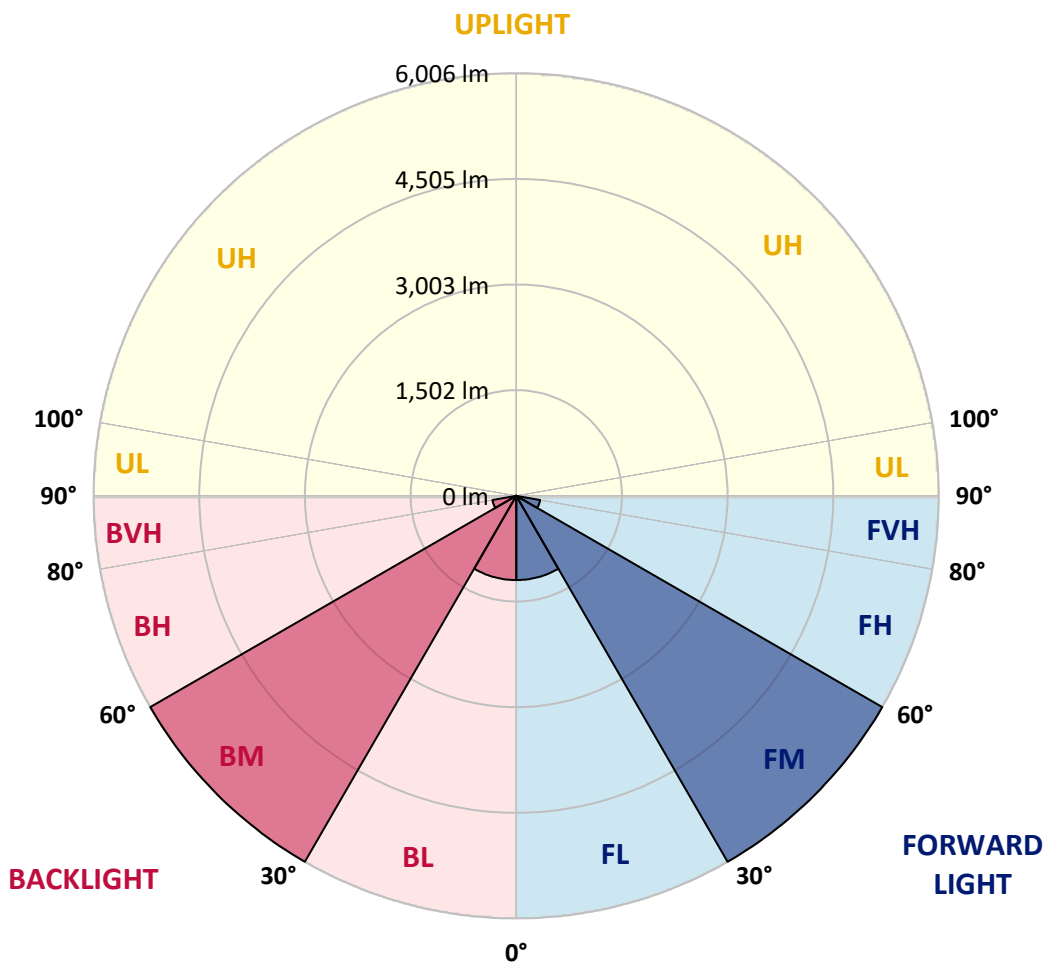
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.3	7.9			
FM (30°-60°)	6006.1	39.7			
FH (60°-80°)	343.9	2.3			G0/660
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	1197.3	7.9	B3/2500		
BM (30°-60°)	6006.1	39.7	B4/8500		
BH (60°-80°)	343.9	2.3	B1/500		G0/660
BVH (80°-90°)	10.4	0.1			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°	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6	2095.6
2.5°	2088.0	2088.0	2085.4	2105.8	2095.6	2118.5	2116.0	2123.5	2131.2	2128.7	2149.0
5°	2070.1	2067.6	2067.6	2090.5	2113.3	2138.8	2161.7	2176.9	2202.4	2202.4	2227.8
7.5°	2088.0	2075.3	2093.0	2103.2	2146.4	2189.6	2227.8	2258.3	2316.8	2337.1	2329.6
10°	2093.0	2108.3	2121.0	2151.5	2204.9	2271.0	2304.1	2380.4	2446.6	2492.3	2502.5
12.5°	2126.0	2149.0	2184.6	2258.3	2306.6	2393.1	2438.9	2512.7	2604.2	2655.0	2690.7
15°	2189.6	2197.3	2243.0	2337.1	2441.4	2520.3	2591.5	2644.9	2733.9	2792.4	2795.0
17.5°	2271.0	2304.1	2367.7	2456.7	2566.1	2683.0	2739.0	2797.5	2830.6	2909.4	2927.2
20°	2433.8	2438.9	2500.0	2616.9	2754.3	2861.1	2901.8	2932.2	2919.5	3000.9	3016.2
22.5°	2586.4	2591.5	2667.8	2825.4	2972.9	3064.5	3082.3	3064.5	3026.3	3084.9	3089.9
25°	2741.5	2787.3	2843.3	3000.9	3184.0	3306.1	3308.7	3260.3	3181.5	3191.7	3217.1
27.5°	2983.1	3016.2	3074.7	3219.7	3420.6	3557.9	3535.0	3476.5	3374.8	3382.4	3374.8
30°	3265.4	3296.0	3344.2	3529.9	3677.4	3827.5	3860.5	3804.6	3652.0	3618.9	3657.1
32.5°	3606.2	3649.4	3738.4	3908.9	4033.4	4125.0	4147.9	4127.5	3985.2	3972.5	3997.9
35°	4020.7	4079.3	4160.6	4310.6	4412.4	4577.7	4577.7	4509.0	4379.3	4394.6	4392.0
37.5°	4458.1	4544.7	4671.8	4824.4	4961.7	5050.7	5022.8	4964.3	4834.6	4801.5	4834.6
40°	5007.5	5050.7	5210.9	5409.3	5577.2	5678.9	5559.3	5432.2	5121.9	5170.2	5259.3
42.5°	5508.5	5577.2	5699.2	5917.9	6108.7	6192.6	6050.2	5798.4	5424.5	5386.4	5452.5
45°	5935.8	6009.5	6169.7	6482.5	6683.4	6757.2	6441.8	6034.9	5607.7	5511.1	5539.0
47.5°	6220.6	6258.7	6482.5	6780.1	6963.2	7131.0	6678.4	6197.7	5694.2	5511.1	5500.9
50°	6111.2	6177.3	6439.3	6777.5	7110.7	7230.2	6797.9	6322.3	5722.2	5488.1	5457.7
52.5°	5427.1	5541.6	5834.0	6289.3	6792.8	7220.1	6963.2	6281.6	5712.0	5511.1	5556.8
55°	3776.6	3779.1	4135.2	4806.6	5696.7	6703.8	6721.6	6327.4	5778.1	5653.5	5656.0
57.5°	1518.3	1594.5	1866.7	2540.7	3362.1	4603.1	5472.9	5869.6	5785.7	5755.2	5834.0
60°	384.0	386.5	470.5	717.2	1182.6	1973.5	2866.1	3878.4	4465.8	4666.7	4694.7
62.5°	195.8	198.4	218.7	254.3	322.9	529.0	941.0	1492.9	2123.5	2443.9	2527.9
65°	160.2	160.2	172.9	190.7	193.3	203.4	244.1	348.4	506.1	574.7	582.4
67.5°	122.1	122.1	132.2	142.4	147.5	145.0	139.9	145.0	175.5	167.9	162.7
70°	76.3	78.8	83.9	94.1	99.2	101.8	104.3	109.3	124.6	129.7	124.6
72.5°	45.8	45.8	48.4	55.9	63.6	68.6	76.3	81.4	89.0	101.8	99.2
75°	20.4	20.4	25.4	33.1	40.7	48.4	55.9	63.6	68.6	76.3	78.8
77.5°	5.0	7.7	12.7	22.9	30.5	40.7	50.9	58.5	63.6	63.6	61.1
80°	2.5	2.5	10.2	17.8	33.1	43.2	55.9	61.1	68.6	63.6	55.9
82.5°	2.5	2.5	10.2	17.8	30.5	43.2	58.5	66.1	71.2	63.6	53.4
85°	0.0	2.5	7.7	15.2	25.4	30.5	25.4	17.8	10.2	10.2	7.7
87.5°	0.0	0.0	2.5	2.5	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)