

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: P650787

Luminaire Tested: **GALN-SA3C-840-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15466 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

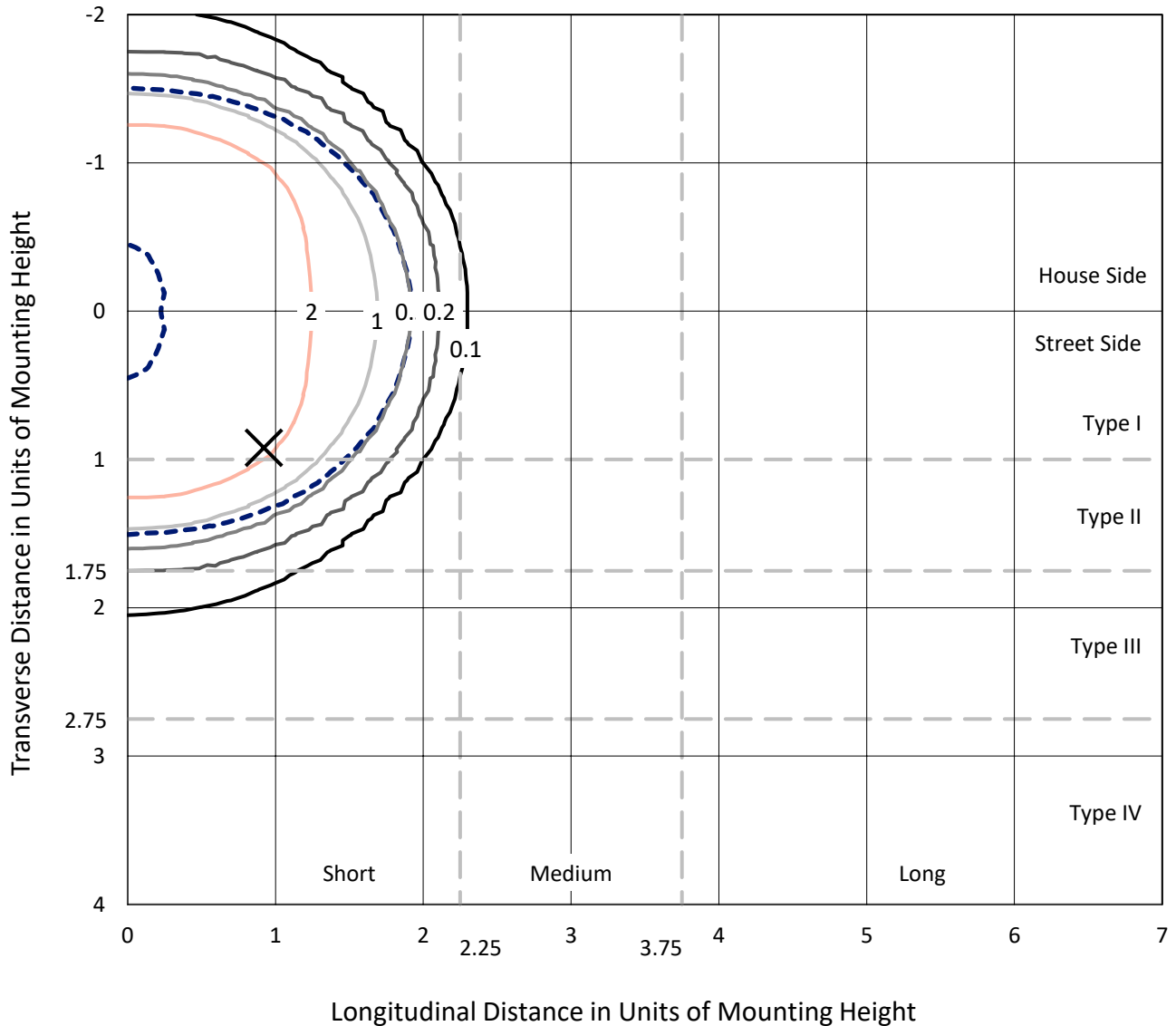
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

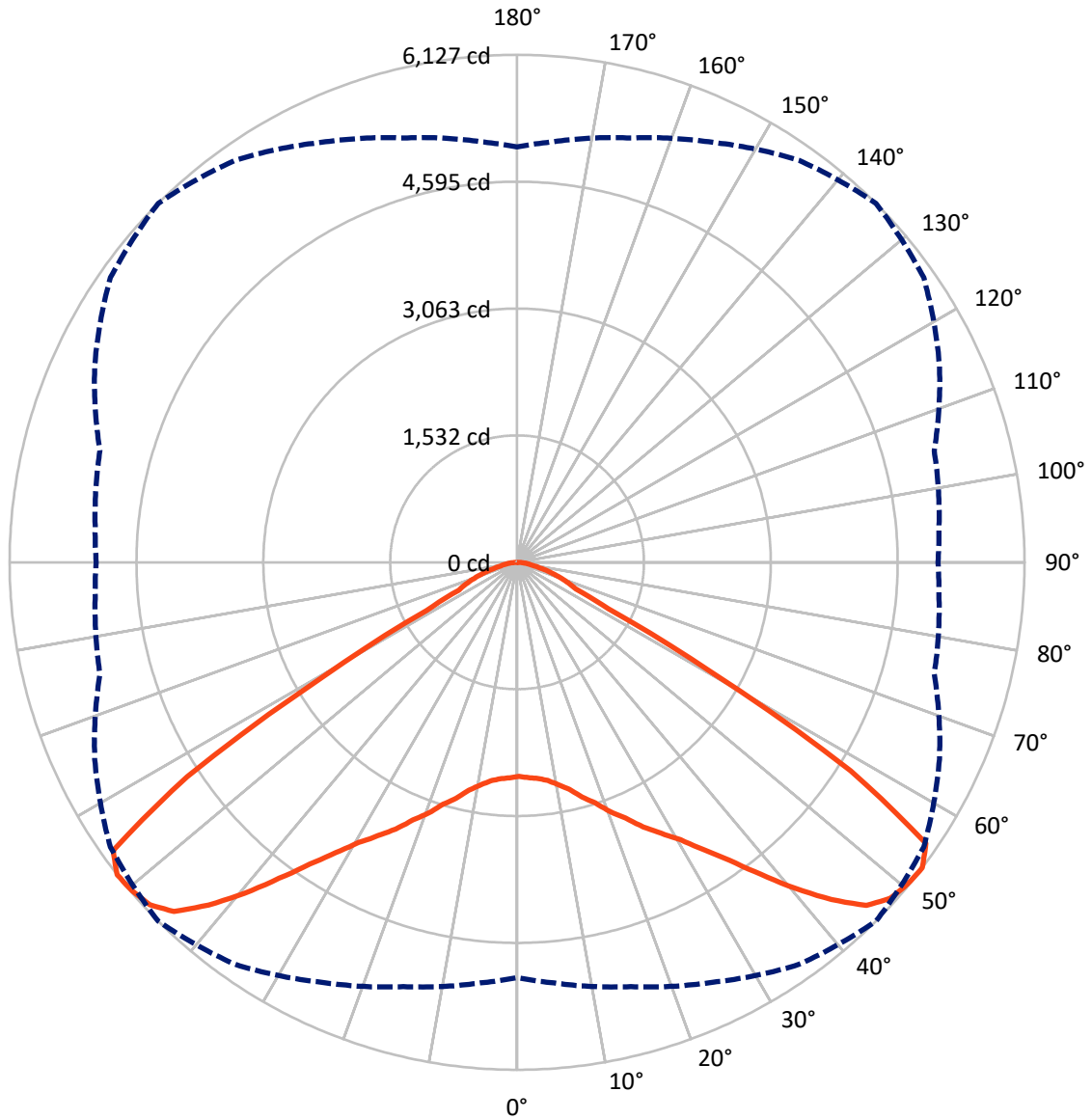
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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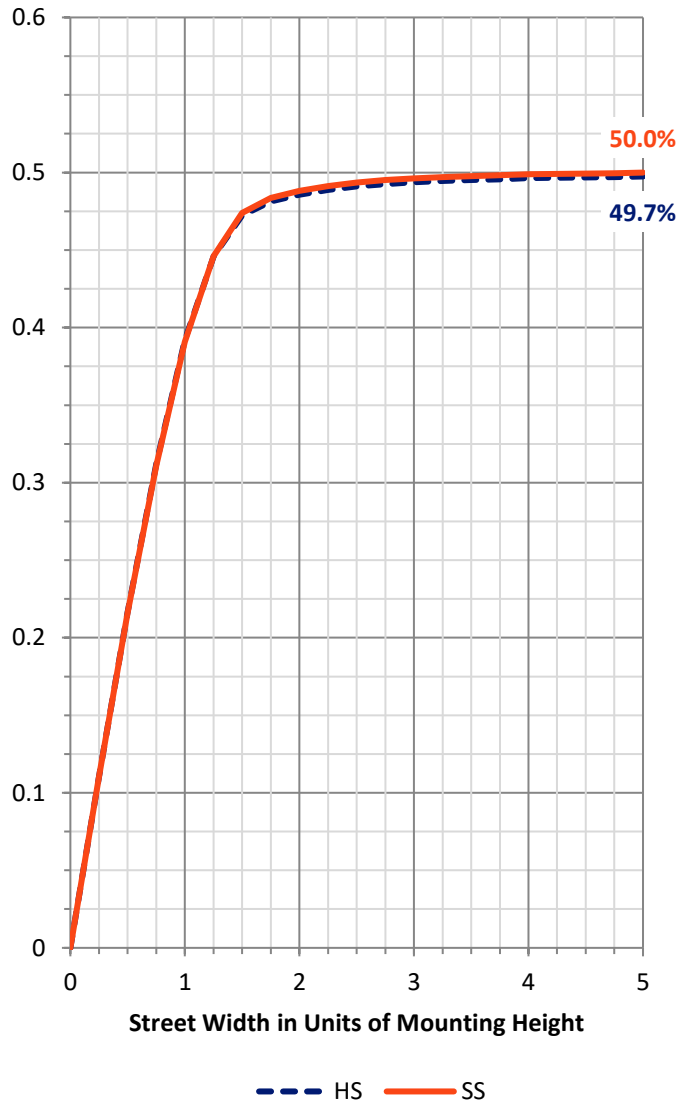
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7733.0	0.0	7733.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7733.0	0.0	7733.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15466.0	0.0	15466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	1.6
10°-20°	834.6	5.4
20°-30°	1589.0	10.3
30°-40°	2728.5	17.6
40°-50°	4193.7	27.1
50°-60°	4258.7	27.5
60°-70°	1186.8	7.7
70°-80°	350.1	2.3
80°-90°	70.5	0.5
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°	15466.0	100.0
0°-180°	15466.0	100.0

Coefficient of Utilization

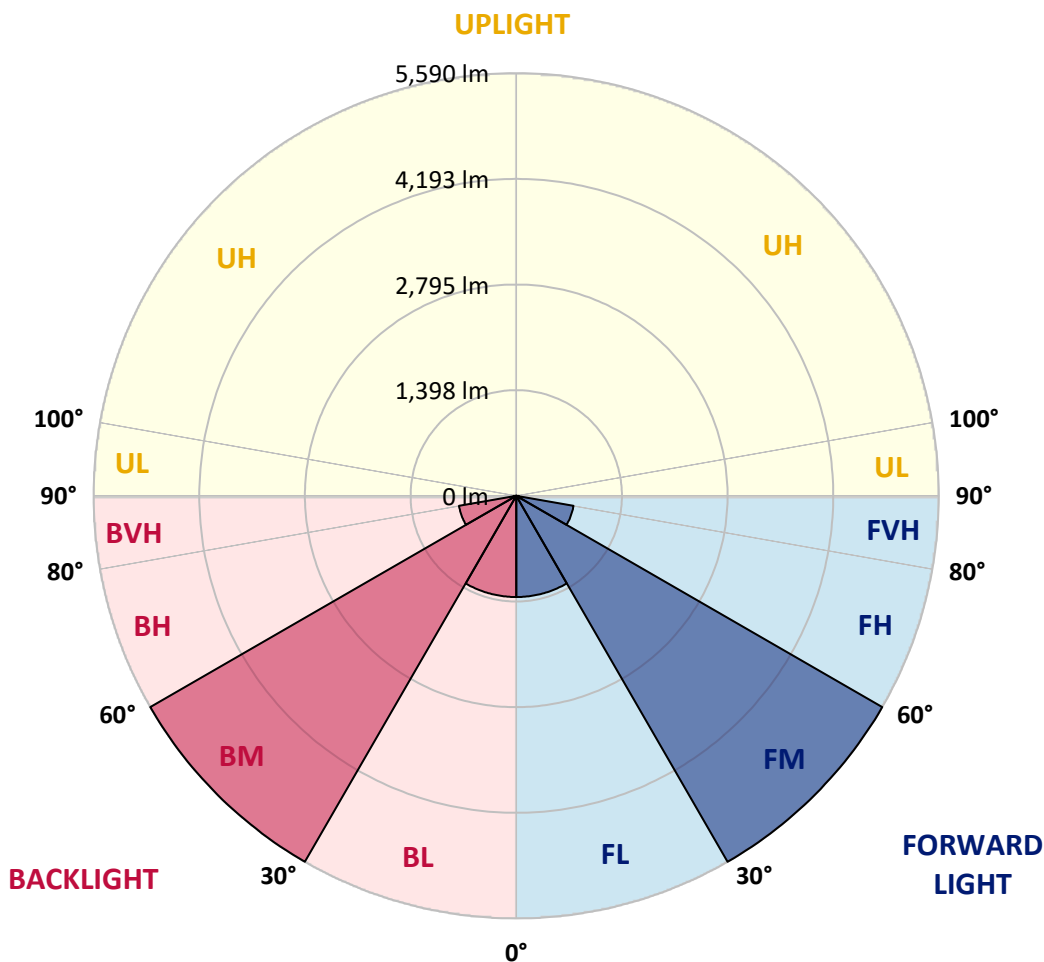


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1338.8	8.7			
FM (30°-60°)	5590.4	36.1			
FH (60°-80°)	768.5	5.0			G1/1800
FVH (80°-90°)	35.3	0.2			G1/100
BL (0°-30°)	1338.8	8.7	B3/2500		
BM (30°-60°)	5590.4	36.1	B4/8500		
BH (60°-80°)	768.5	5.0	B2/1000		G1/1800
BVH (80°-90°)	35.3	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°	2585.3	2585.3	2585.3	2585.3	2585.3	2585.3	2585.3	2585.3	2585.3	2585.3	2585.3
2.5°	2591.1	2564.2	2573.8	2579.6	2604.6	2602.6	2596.8	2604.6	2612.2	2614.2	2610.3
5°	2589.2	2570.0	2577.7	2583.4	2608.4	2621.8	2617.9	2650.6	2673.6	2667.9	2696.7
7.5°	2573.8	2585.3	2575.7	2604.6	2625.7	2658.3	2692.8	2723.5	2752.3	2785.0	2790.7
10°	2608.4	2608.4	2625.7	2648.6	2704.3	2729.3	2779.2	2823.3	2879.0	2917.4	2902.0
12.5°	2644.9	2650.6	2650.6	2710.1	2756.1	2811.8	2857.9	2917.4	2996.1	3042.1	3065.2
15°	2681.3	2685.1	2704.3	2785.0	2854.0	2942.3	2984.5	3038.3	3082.4	3168.8	3170.7
17.5°	2713.9	2735.0	2792.6	2882.9	2969.2	3053.7	3120.9	3176.5	3214.9	3249.5	3241.7
20°	2836.8	2852.2	2911.6	3001.9	3130.5	3213.0	3236.0	3245.6	3270.6	3339.6	3318.5
22.5°	2955.8	2961.5	3017.2	3155.3	3245.6	3355.0	3380.0	3374.2	3383.8	3401.1	3431.8
25°	3078.6	3088.2	3165.0	3282.1	3408.7	3539.3	3560.4	3516.2	3502.8	3521.9	3523.9
27.5°	3236.0	3237.9	3335.8	3437.5	3581.5	3704.4	3737.0	3702.4	3639.1	3654.4	3679.4
30°	3435.6	3422.2	3520.1	3665.9	3817.6	3886.7	3942.4	3925.0	3856.0	3842.5	3821.4
32.5°	3665.9	3669.8	3758.1	3917.4	4017.2	4132.3	4191.8	4163.0	4118.9	4095.8	4109.3
35°	3990.3	4007.5	4067.1	4199.5	4360.8	4418.3	4512.4	4450.9	4335.8	4364.5	4389.5
37.5°	4257.1	4307.0	4418.3	4575.7	4671.7	4777.2	4811.8	4729.3	4644.8	4610.3	4692.8
40°	4665.9	4650.6	4773.3	4930.8	5072.8	5178.4	5134.2	5051.7	4842.5	4844.4	4867.5
42.5°	5017.2	5024.8	5118.8	5307.0	5500.8	5566.1	5426.0	5224.5	4992.2	4967.2	5017.2
45°	5312.7	5343.5	5397.2	5648.6	5838.6	5909.6	5650.5	5412.5	5101.6	4998.0	5080.5
47.5°	5418.3	5468.2	5585.2	5815.6	6003.6	6061.3	5853.9	5512.3	5203.4	5034.4	5078.5
50°	5433.6	5416.4	5608.3	5819.4	5984.5	6109.3	5926.9	5585.2	5178.4	5090.1	5076.6
52.5°	5013.3	5097.7	5303.1	5592.9	5926.9	6126.5	5992.1	5625.5	5212.9	5113.1	5080.5
55°	4057.5	3957.7	4331.9	4819.4	5433.6	5988.3	5969.2	5646.6	5234.0	5151.5	5107.3
57.5°	2264.8	2293.6	2504.8	3034.5	3827.1	4748.5	5307.0	5424.0	5224.5	5176.4	5199.5
60°	1048.0	1057.6	1147.8	1395.4	1886.7	2692.8	3427.9	4174.6	4518.1	4587.2	4587.2
62.5°	781.2	777.3	800.4	844.5	948.1	1238.0	1652.6	2245.6	2717.8	3047.9	3134.2
65°	706.4	704.4	715.9	731.2	738.9	779.3	871.4	1053.7	1207.3	1295.6	1280.2
67.5°	618.1	616.1	620.0	629.6	642.9	664.1	687.1	725.5	779.3	775.4	765.8
70°	499.0	499.0	504.8	512.4	527.8	552.8	579.6	606.5	652.5	662.2	660.3
72.5°	368.5	362.7	374.2	389.6	404.9	435.7	464.5	489.5	522.1	531.7	527.8
75°	234.1	238.0	245.7	263.0	289.8	310.9	341.6	362.7	383.8	391.6	393.5
77.5°	130.5	134.4	147.8	168.9	195.8	218.8	245.7	263.0	276.4	278.3	280.2
80°	78.7	80.7	94.0	113.3	136.2	161.2	182.3	199.6	211.1	205.4	203.4
82.5°	48.0	49.9	61.4	78.7	97.9	117.1	140.1	155.5	167.0	159.3	151.6
85°	25.0	26.9	36.5	48.0	63.3	72.9	72.9	65.3	63.3	59.5	57.6
87.5°	7.7	7.7	9.6	11.5	9.6	11.5	13.5	15.4	15.4	17.2	15.4
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)