

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: P530407

Luminaire Tested: **GALN-SA5C-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530407
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-SA5C-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA 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: 17780 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

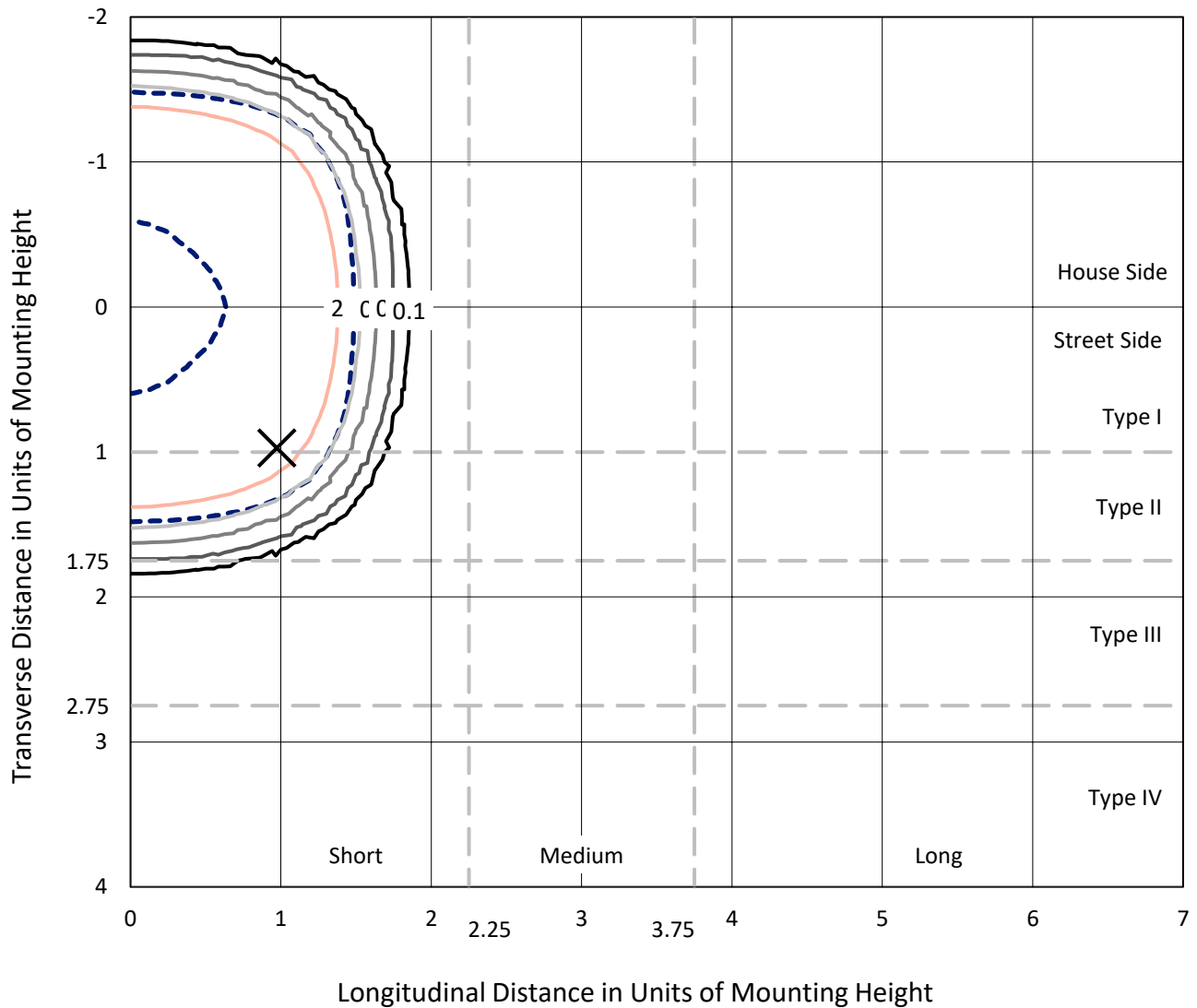
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

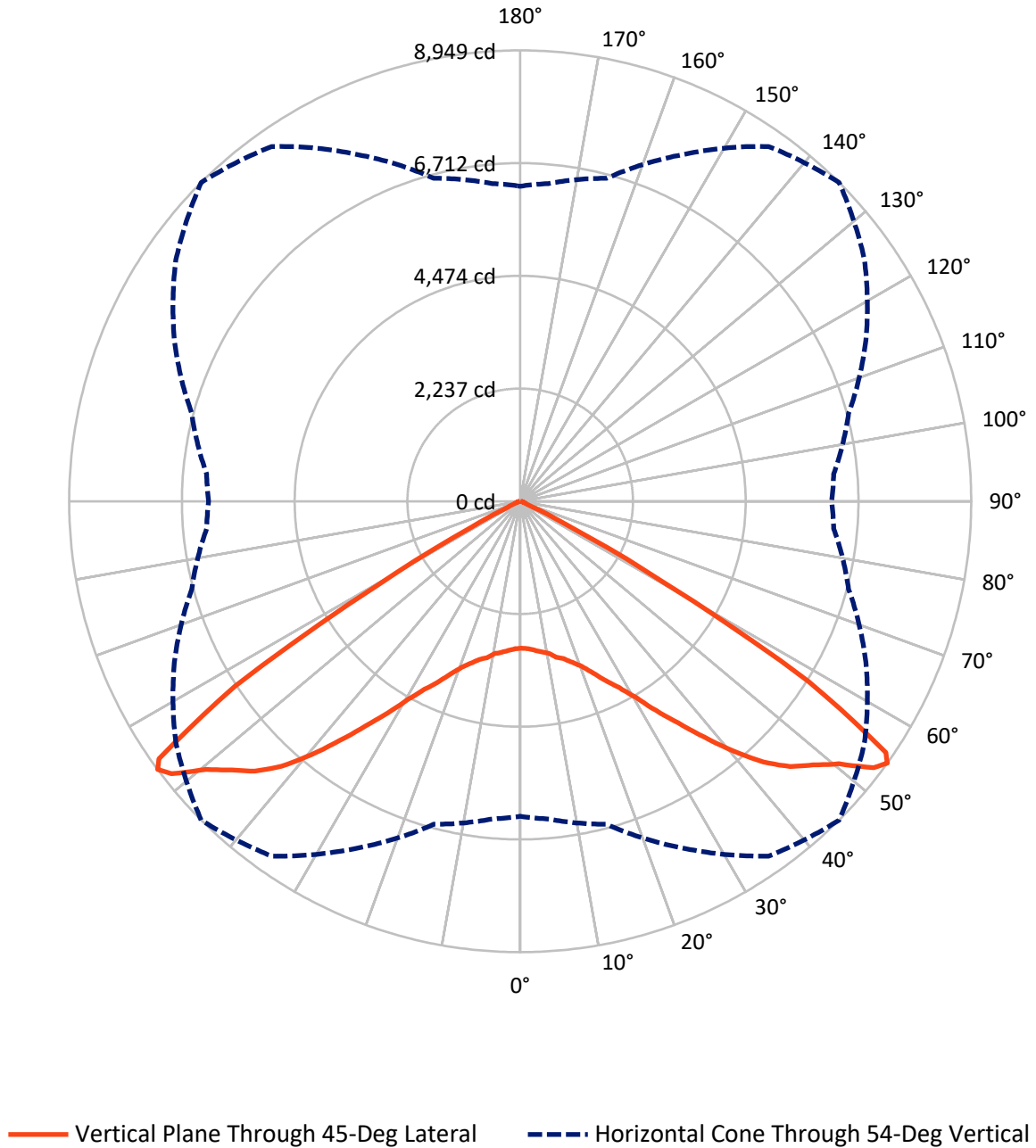
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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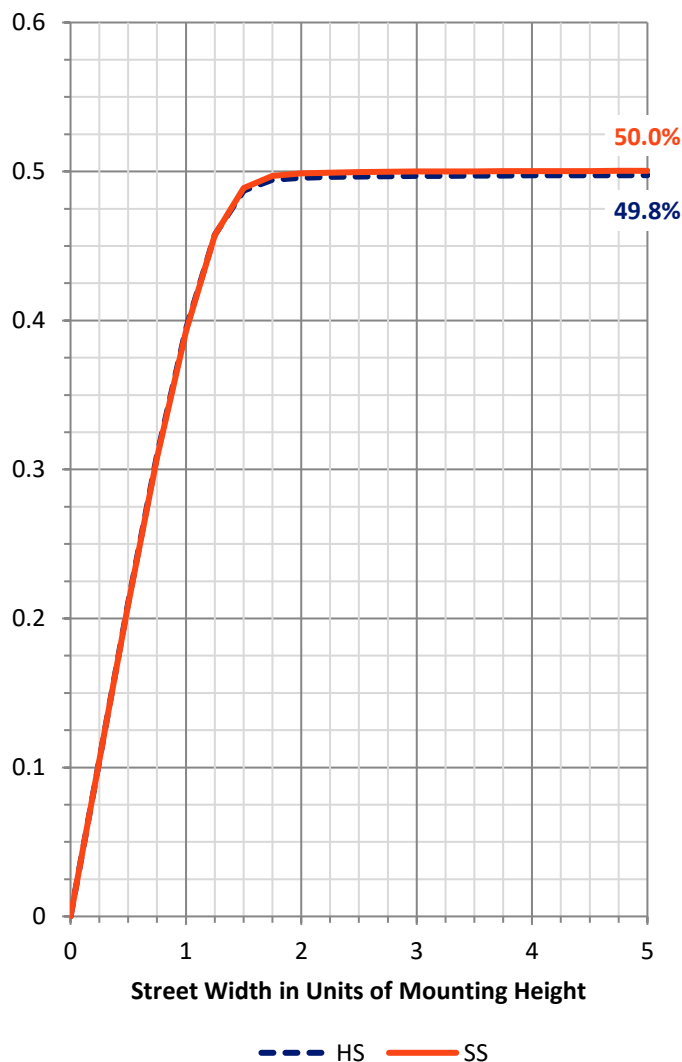
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8890.0	0.0	8890.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8890.0	0.0	8890.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17780.0	0.0	17780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.3	1.6
10°-20°	924.1	5.2
20°-30°	1811.1	10.2
30°-40°	3256.7	18.3
40°-50°	5574.9	31.4
50°-60°	5394.2	30.3
60°-70°	461.8	2.6
70°-80°	54.7	0.3
80°-90°	17.2	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°	17780.0	100.0
0°-180°	17780.0	100.0

Coefficient of Utilization



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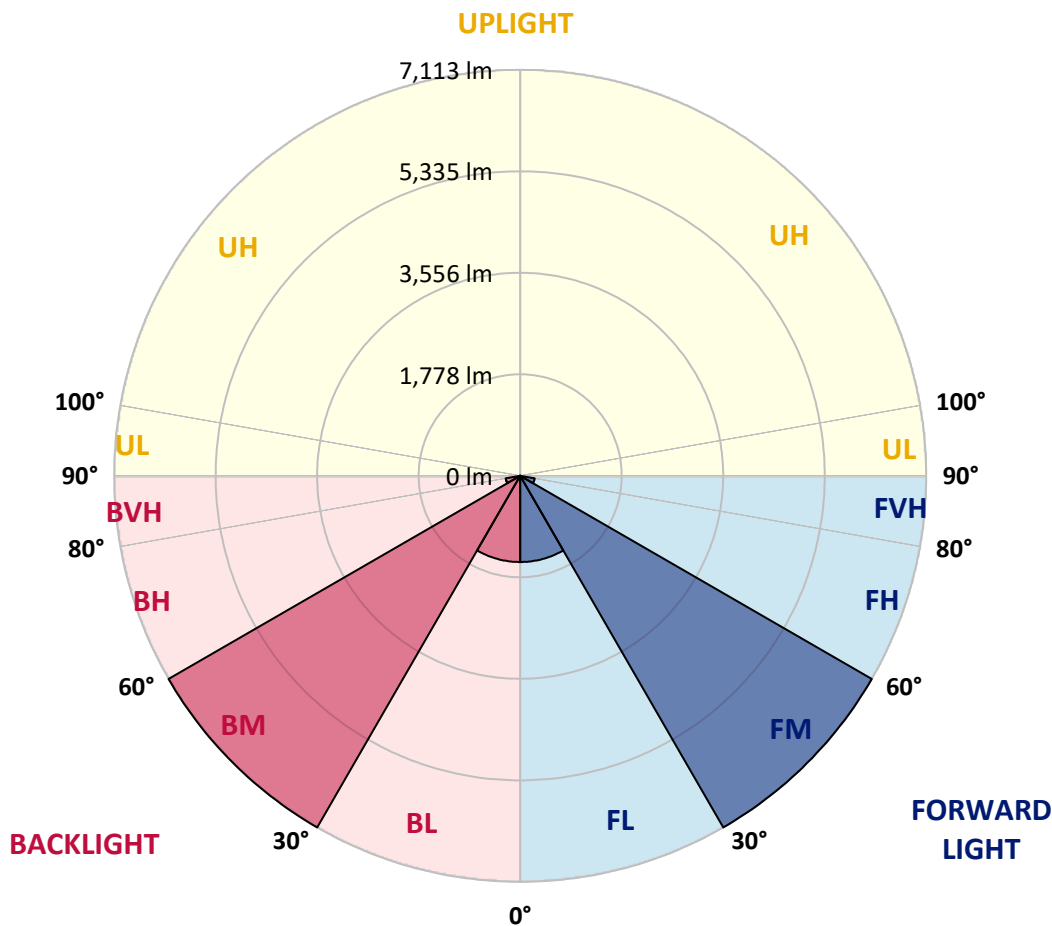
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1510.2	8.5			
FM (30°-60°)	7112.9	40.0			
FH (60°-80°)	258.3	1.5			G0/660
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	1510.2	8.5	B3/2500		
BM (30°-60°)	7112.9	40.0	B4/8500		
BH (60°-80°)	258.3	1.5	B1/500		G0/660
BVH (80°-90°)	8.6	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°	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4
2.5°	2929.4	2946.4	2935.1	2943.5	2943.5	2929.4	2937.9	2904.1	2926.6	2909.7	2912.5
5°	2974.5	2971.7	2971.7	2974.5	2963.3	2968.9	2957.6	2946.4	2937.9	2926.6	2960.4
7.5°	3030.9	3030.9	3011.1	3016.8	3011.1	3019.6	2997.1	2974.5	2966.1	2957.6	2952.0
10°	3084.4	3078.7	3070.3	3095.6	3075.9	3064.7	3053.4	3039.3	3008.3	2997.1	2985.8
12.5°	3163.2	3160.4	3149.2	3174.5	3163.2	3174.5	3132.3	3095.6	3090.0	3053.4	3073.1
15°	3256.2	3281.5	3261.8	3261.8	3256.2	3242.1	3225.2	3208.3	3157.6	3143.5	3146.3
17.5°	3377.3	3368.9	3371.7	3371.7	3399.9	3363.2	3329.4	3287.2	3261.8	3253.4	3225.2
20°	3492.8	3504.1	3501.3	3521.0	3537.9	3498.4	3461.8	3456.2	3385.8	3397.0	3357.6
22.5°	3695.6	3687.2	3701.2	3715.3	3704.1	3698.4	3664.6	3622.4	3560.4	3532.2	3526.6
25°	3909.7	3895.6	3870.3	3904.1	3921.0	3946.3	3881.5	3859.0	3763.2	3721.0	3723.8
27.5°	4092.8	4112.5	4140.7	4154.7	4197.0	4188.6	4143.5	4070.2	3997.0	3949.1	3918.1
30°	4343.5	4354.7	4402.6	4422.3	4495.6	4515.3	4444.9	4360.4	4230.8	4168.8	4132.2
32.5°	4574.4	4653.3	4650.5	4749.1	4867.4	4949.1	4822.3	4692.8	4563.2	4489.9	4425.2
35°	4949.1	4935.0	5016.7	5120.9	5312.4	5405.4	5267.4	5118.1	4920.9	4802.6	4751.9
37.5°	5298.4	5304.0	5413.8	5580.0	5799.7	5943.4	5822.3	5577.2	5374.4	5222.3	5151.9
40°	5805.4	5816.6	5929.3	6118.0	6365.9	6520.8	6380.0	6132.1	5861.7	5743.4	5743.4
42.5°	6399.7	6447.6	6520.8	6684.2	6906.7	7078.6	6951.8	6757.5	6484.2	6332.1	6354.7
45°	7011.0	7033.5	7081.4	7323.6	7427.8	7512.3	7394.0	7303.9	7120.8	6934.9	6903.9
47.5°	7582.8	7591.2	7732.1	7808.1	7889.8	7819.4	7895.4	7777.1	7571.5	7391.2	7354.6
50°	7836.3	7822.2	8022.2	8253.2	8315.1	8191.2	8126.4	8047.5	7734.9	7518.0	7422.2
52.5°	7098.3	7180.0	7551.8	8194.0	8678.5	8782.7	8405.3	8041.9	7458.8	7036.3	6971.5
54°	6253.2	6329.3	6636.3	7588.4	8596.8	8948.9	8340.5	7568.7	6746.2	6244.8	6180.0
55°	5416.7	5332.2	5889.9	6861.7	8213.7	8802.4	8084.2	6957.4	6016.6	5557.5	5467.4
57.5°	2932.3	2946.4	3416.8	4335.0	5771.6	6749.0	5960.3	4706.8	3554.8	3039.3	2994.2
60°	929.5	952.1	1157.7	1752.0	2757.6	3292.8	2822.4	1890.1	1307.0	1047.8	1005.6
62.5°	290.1	301.4	329.6	490.1	754.9	1078.8	845.0	507.0	377.4	346.5	352.1
65°	177.5	177.5	180.3	191.5	225.3	262.0	253.5	222.5	214.1	208.4	205.6
67.5°	115.5	112.7	118.3	126.8	132.4	135.2	143.7	152.1	149.3	143.7	143.7
70°	70.4	67.6	73.2	84.5	87.3	93.0	101.4	112.7	109.9	104.2	107.0
72.5°	39.4	39.4	42.3	50.7	59.2	64.8	73.2	81.7	84.5	81.7	81.7
75°	14.1	16.9	22.5	31.0	36.6	45.1	53.5	62.0	70.4	64.8	62.0
77.5°	5.6	5.6	11.3	19.7	28.2	36.6	50.7	59.2	64.8	59.2	53.5
80°	2.8	2.8	8.5	16.9	25.4	33.8	42.3	50.7	53.5	47.9	42.3
82.5°	2.8	2.8	8.5	16.9	25.4	31.0	45.1	50.7	56.3	50.7	42.3
85°	0.0	2.8	8.5	16.9	22.5	25.4	25.4	16.9	14.1	8.5	8.5
87.5°	0.0	0.0	2.8	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)