

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: P533217

Luminaire Tested: **GALN-SA8C-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21769 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

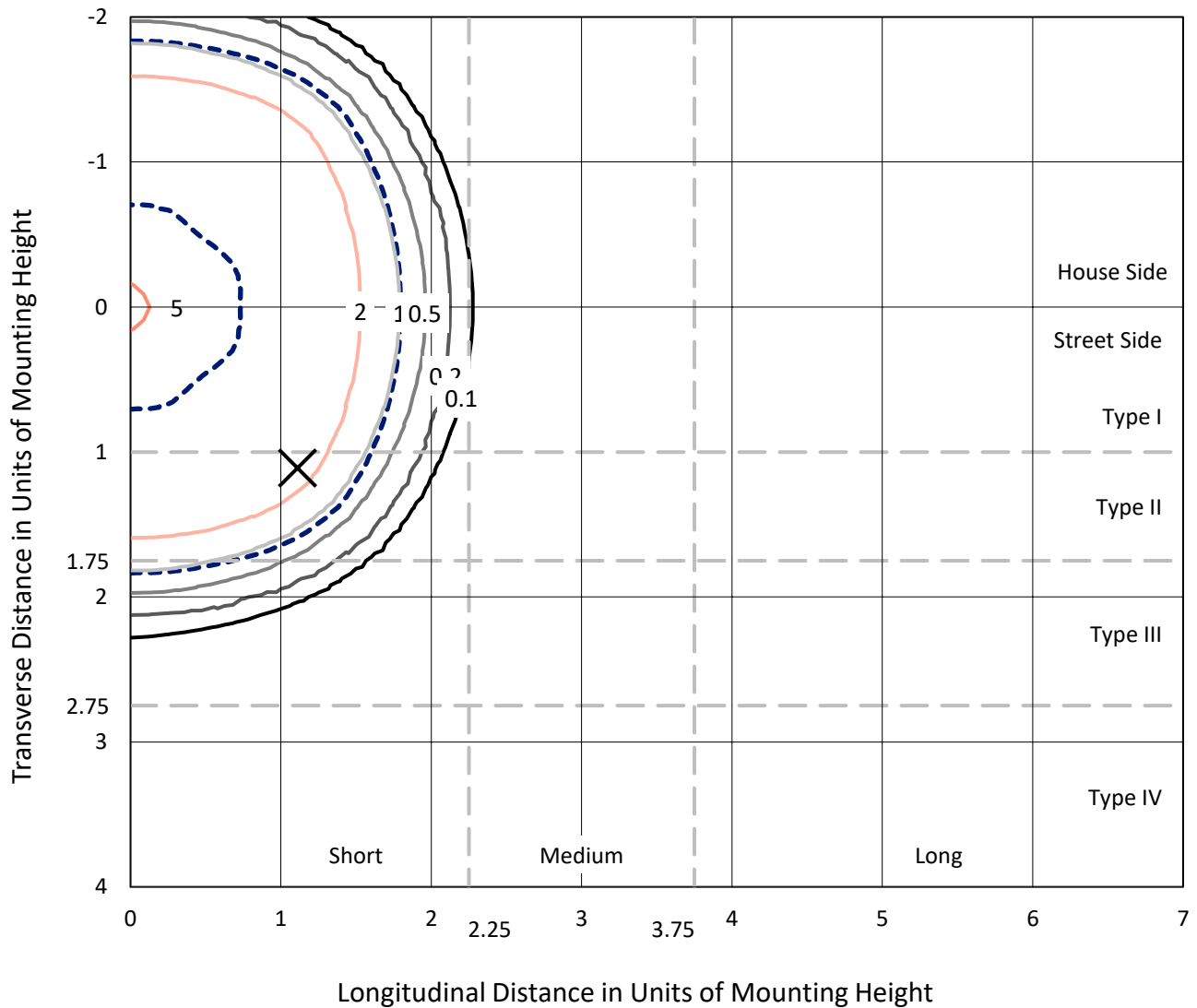
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

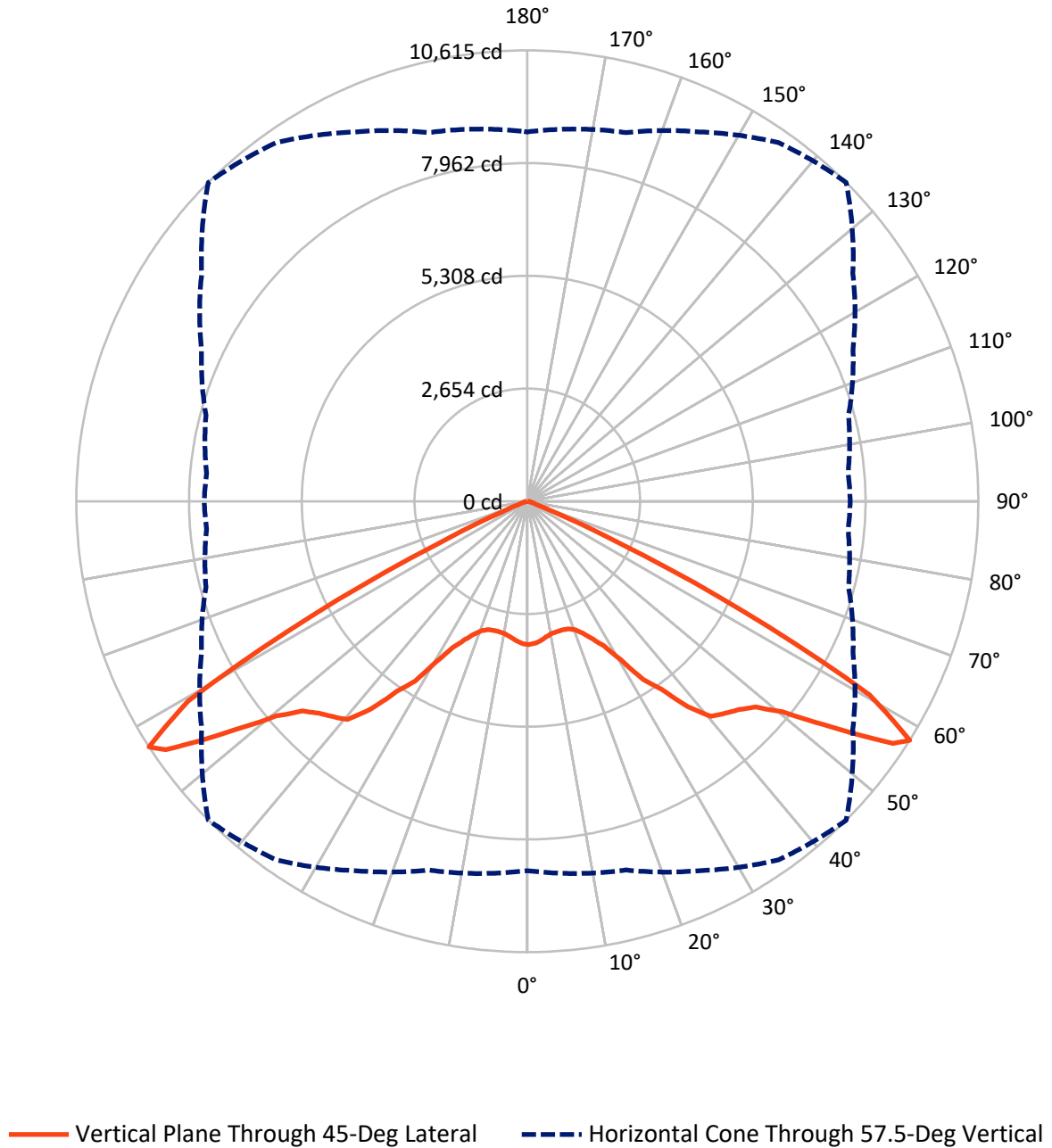
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	10884.5	0.0	10884.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10884.5	0.0	10884.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21769.0	0.0	21769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.3	1.4
10°-20°	896.9	4.1
20°-30°	1655.5	7.6
30°-40°	3255.8	15.0
40°-50°	5302.8	24.4
50°-60°	7562.5	34.7
60°-70°	2618.3	12.0
70°-80°	140.5	0.6
80°-90°	26.4	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°	21769.0	100.0
0°-180°	21769.0	100.0

Coefficient of Utilization

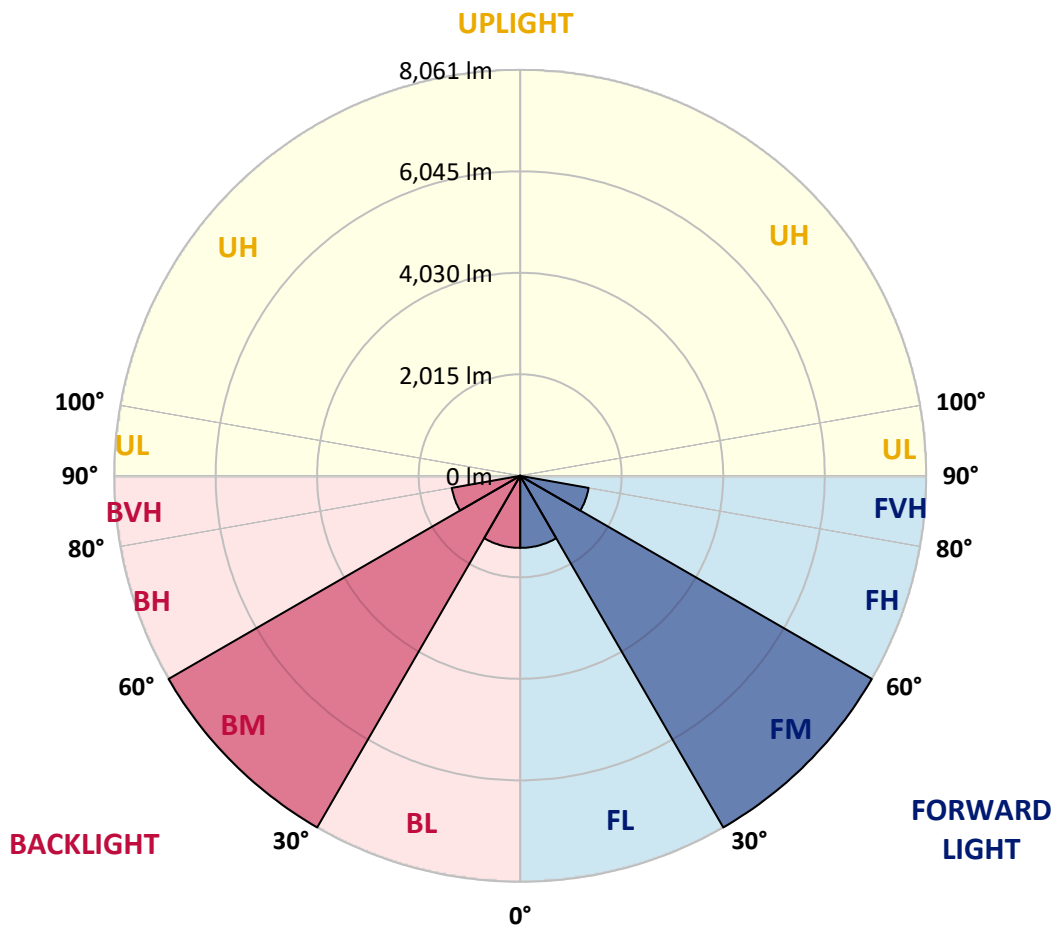


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1431.4	6.6			
FM (30°-60°)	8060.6	37.0			
FH (60°-80°)	1379.4	6.3			G1/1800
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	1431.4	6.6	B3/2500		
BM (30°-60°)	8060.6	37.0	B4/8500		
BH (60°-80°)	1379.4	6.3	B3/2500		G1/1800
BVH (80°-90°)	13.2	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°	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6	3376.6
2.5°	3367.5	3385.7	3363.0	3353.9	3349.4	3349.4	3335.8	3335.8	3331.2	3335.8	3317.6
5°	3313.1	3331.2	3331.2	3326.7	3299.4	3294.9	3281.3	3272.2	3276.8	3258.6	3272.2
7.5°	3258.6	3272.2	3254.1	3249.5	3240.4	3222.3	3217.8	3176.9	3181.4	3181.4	3190.5
10°	3249.5	3245.0	3217.8	3195.1	3167.8	3163.3	3149.7	3140.6	3140.6	3136.1	3149.7
12.5°	3249.5	3226.8	3222.3	3172.4	3127.0	3145.1	3108.8	3086.1	3117.9	3127.0	3145.1
15°	3245.0	3267.7	3190.5	3167.8	3136.1	3140.6	3108.8	3086.1	3104.3	3113.4	3127.0
17.5°	3272.2	3258.6	3235.9	3190.5	3176.9	3158.8	3117.9	3099.8	3099.8	3122.4	3127.0
20°	3344.8	3308.5	3263.1	3240.4	3254.1	3231.4	3181.4	3113.4	3131.5	3149.7	3163.3
22.5°	3412.9	3385.7	3353.9	3340.3	3417.4	3381.1	3294.9	3217.8	3190.5	3222.3	3245.0
25°	3544.5	3544.5	3485.5	3503.7	3589.9	3594.4	3494.6	3358.4	3340.3	3353.9	3363.0
27.5°	3812.3	3825.9	3776.0	3794.1	3830.4	3862.2	3776.0	3662.5	3621.7	3617.1	3630.8
30°	4102.8	4130.0	4125.4	4202.6	4307.0	4325.1	4198.1	4012.0	3889.4	3866.8	3884.9
32.5°	4484.0	4497.6	4488.5	4579.3	4860.7	4992.3	4661.0	4397.7	4234.4	4275.2	4234.4
35°	5201.1	5187.4	5087.6	5105.7	5337.2	5432.5	5114.8	4946.9	4869.7	4951.4	4933.3
37.5°	5818.3	5768.4	5686.7	5804.7	6045.2	6131.4	5800.1	5505.1	5364.4	5500.6	5559.6
40°	6340.2	6213.1	6099.7	6217.7	6539.9	6657.9	6172.3	5931.7	5877.3	5977.1	6104.2
42.5°	6780.4	6698.7	6549.0	6558.0	6771.4	6825.8	6435.5	6294.8	6240.4	6399.2	6462.7
45°	7093.6	7016.4	6875.7	6866.7	7030.0	6993.7	6644.3	6549.0	6580.7	6685.1	6716.9
47.5°	7252.4	7293.3	7211.6	7234.3	7320.5	7234.3	6957.4	6957.4	6884.8	6948.4	6916.6
50°	7710.8	7583.7	7688.1	7688.1	7778.9	7788.0	7511.1	7411.3	7216.1	7107.2	7107.2
52.5°	8246.3	8255.4	8296.3	8446.0	8600.3	8732.0	8337.1	7910.5	7583.7	7443.0	7424.9
55°	8686.6	8777.3	8940.7	9222.1	9666.9	9848.4	9167.7	8405.2	8005.8	7788.0	7742.6
56°	8927.1	8840.9	9122.3	9508.0	10089.0	10325.0	9303.8	8505.0	8064.8	7819.7	7815.2
57.5°	8695.7	8791.0	8986.1	9594.3	10306.8	10615.4	9353.7	8459.7	7828.8	7579.2	7601.9
60°	6866.7	6957.4	7220.7	7901.4	9017.9	9258.4	7915.0	6975.6	6412.8	6054.3	6058.8
62.5°	3884.9	3953.0	4157.2	4788.1	5482.4	5713.9	4933.3	4307.0	3916.7	3717.0	3653.4
65°	1429.6	1402.4	1434.1	1756.4	2183.0	2378.1	2051.4	1733.7	1529.5	1456.8	1429.6
67.5°	535.5	494.7	462.9	494.7	621.8	658.1	603.6	503.8	472.0	485.6	494.7
70°	331.3	313.2	249.6	236.0	231.5	226.9	240.5	254.2	290.5	340.4	349.5
72.5°	231.5	217.8	177.0	167.9	158.8	154.3	177.0	195.2	226.9	263.2	267.8
75°	90.8	95.3	90.8	99.8	104.4	108.9	127.1	140.7	154.3	154.3	149.8
77.5°	18.2	18.2	27.2	36.3	45.4	59.0	86.2	99.8	104.4	99.8	86.2
80°	0.0	0.0	9.1	18.2	36.3	49.9	77.2	86.2	95.3	86.2	68.1
82.5°	0.0	0.0	9.1	22.7	36.3	45.4	72.6	90.8	104.4	95.3	72.6
85°	0.0	0.0	9.1	18.2	27.2	31.8	31.8	22.7	22.7	13.6	9.1
87.5°	0.0	0.0	0.0	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)