

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: P530405

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
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-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15533 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

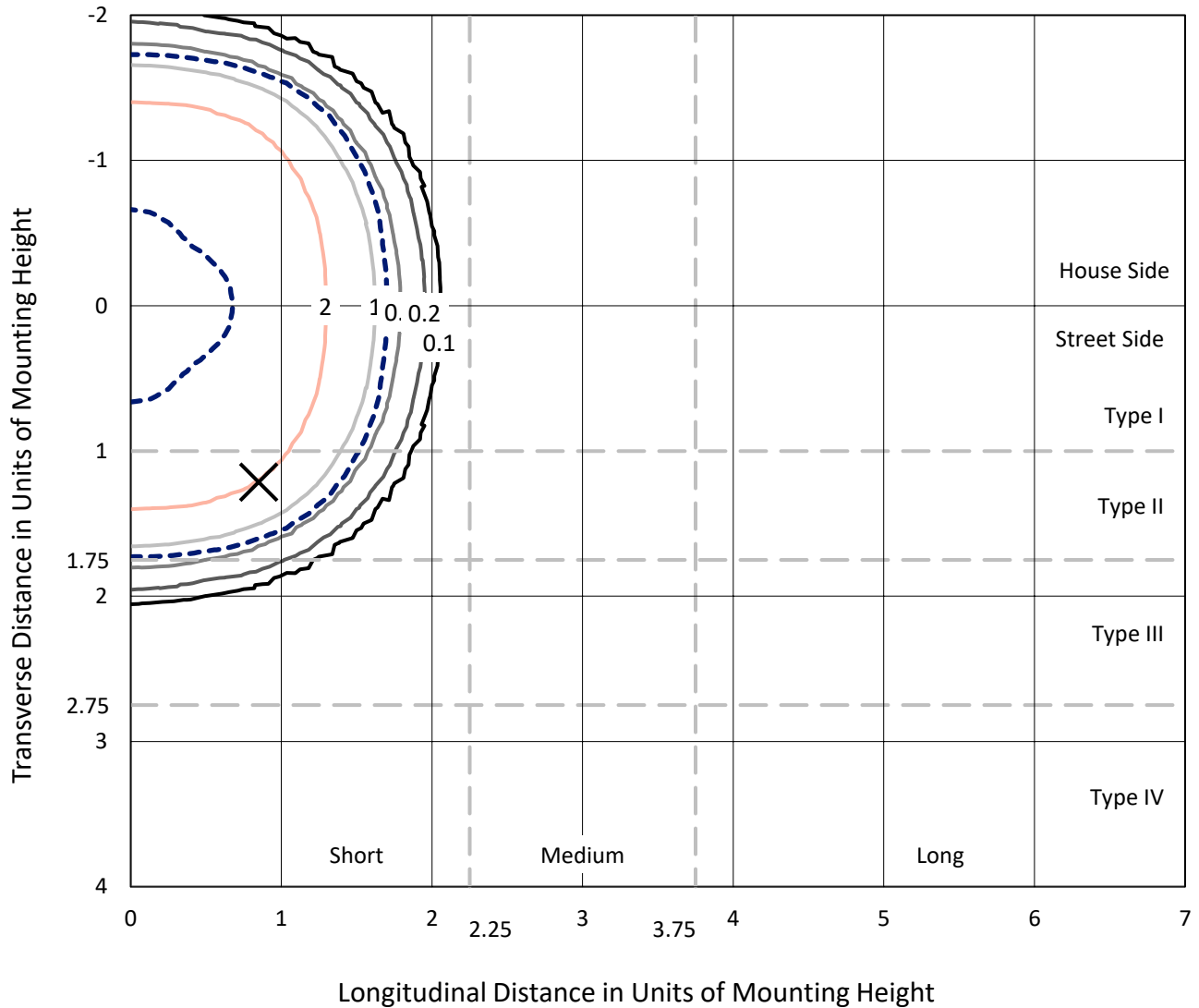
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530405
 CATALOG NUMBER: GALN-SA5C-827-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

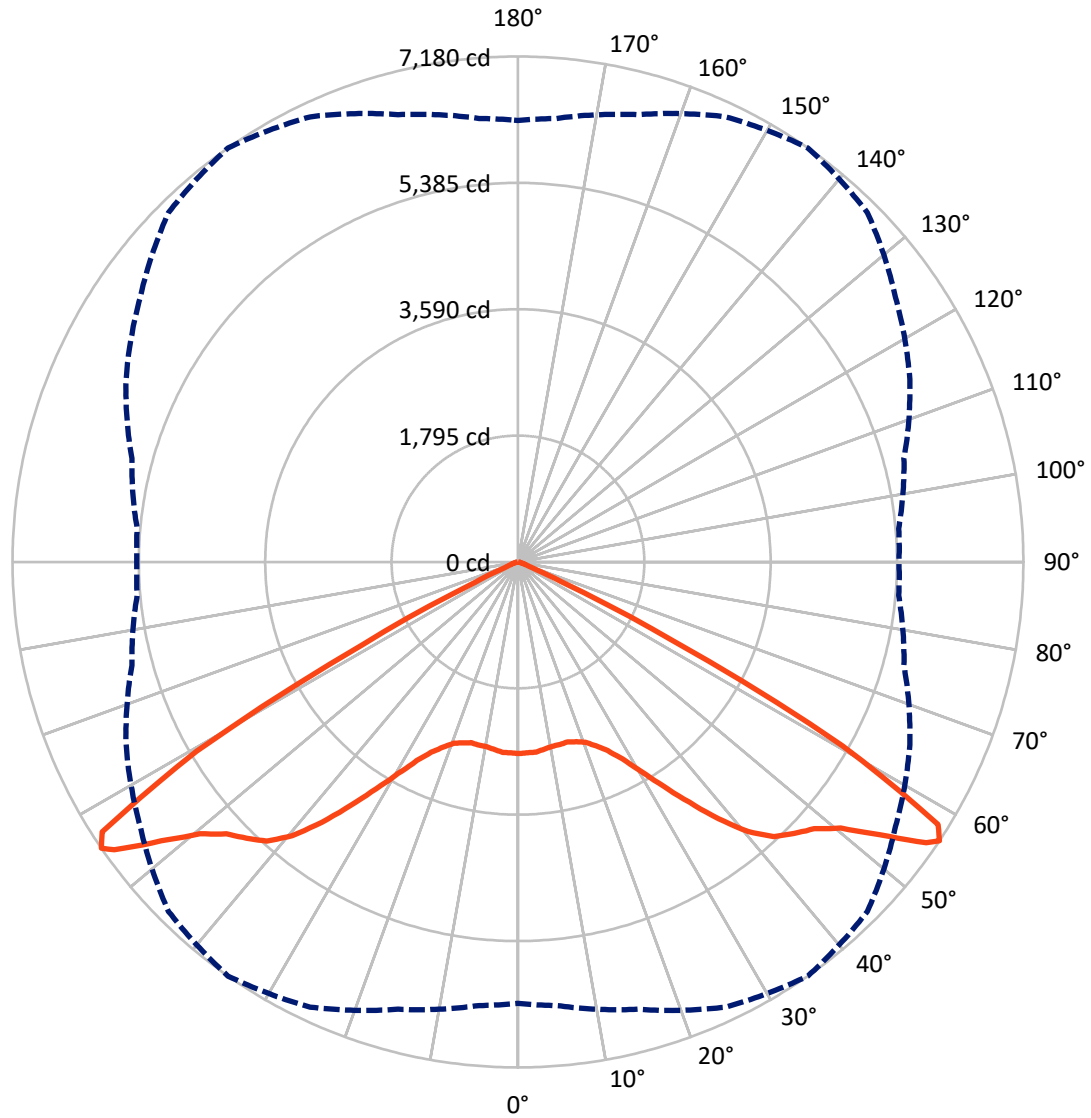
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

REPORT NUMBER: P530405
CATALOG NUMBER: GALN-SA5C-827-U-5MQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P530405
 CATALOG NUMBER: GALN-SA5C-827-U-5MQ-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7766.5	0.0	7766.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7766.5	0.0	7766.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15533.0	0.0	15533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	1.6
10°-20°	746.8	4.8
20°-30°	1352.4	8.7
30°-40°	2507.8	16.1
40°-50°	4116.3	26.5
50°-60°	5303.1	34.1
60°-70°	1168.7	7.5
70°-80°	67.8	0.4
80°-90°	14.3	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°	15533.0	100.0
0°-180°	15533.0	100.0

Coefficient of Utilization

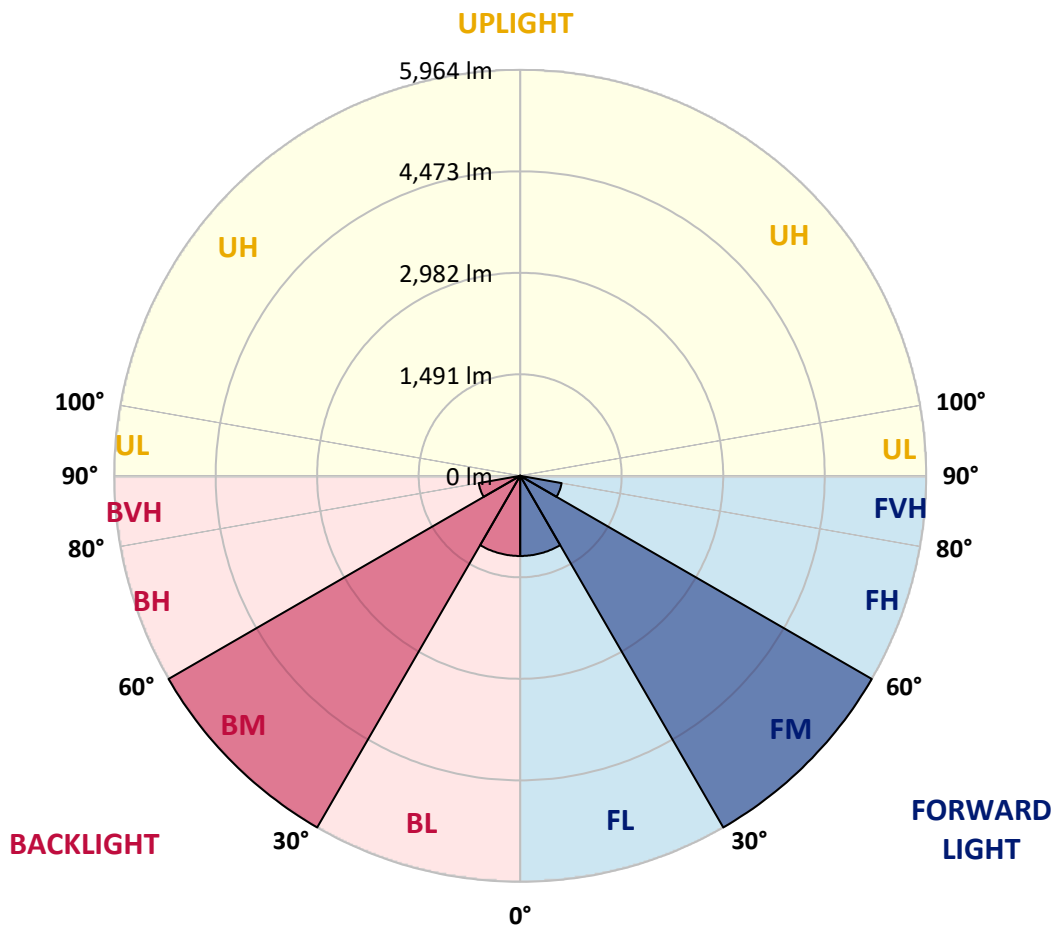


REPORT NUMBER: P530405
 CATALOG NUMBER: GALN-SA5C-827-U-5MQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1177.5	7.6			
FM (30°-60°)	5963.6	38.4			
FH (60°-80°)	618.3	4.0			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	1177.5	7.6	B3/2500		
BM (30°-60°)	5963.6	38.4	B4/8500		
BH (60°-80°)	618.3	4.0	B2/1000		G0/660
BVH (80°-90°)	7.1	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





REPORT NUMBER: P530405

CATALOG NUMBER: GALN-SA5C-827-U-5MQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7
2.5°	2727.3	2727.3	2730.2	2733.0	2713.3	2704.8	2707.6	2702.0	2699.2	2707.6	2707.6
5°	2718.9	2718.9	2710.5	2713.3	2713.3	2687.9	2687.9	2693.6	2693.6	2676.7	2671.1
7.5°	2696.4	2690.8	2679.5	2693.6	2685.1	2685.1	2665.4	2651.4	2645.7	2657.0	2645.7
10°	2648.5	2651.4	2662.6	2668.2	2662.6	2679.5	2645.7	2626.0	2606.3	2597.9	2597.9
12.5°	2626.0	2642.9	2626.0	2640.1	2659.8	2645.7	2626.0	2611.9	2583.8	2572.5	2572.5
15°	2623.2	2634.5	2640.1	2659.8	2651.4	2657.0	2617.6	2600.7	2558.5	2538.8	2530.3
17.5°	2620.4	2634.5	2642.9	2679.5	2685.1	2687.9	2657.0	2606.3	2569.7	2550.0	2530.3
20°	2651.4	2657.0	2673.9	2710.5	2733.0	2772.4	2716.1	2662.6	2583.8	2561.3	2552.8
22.5°	2690.8	2718.9	2735.8	2775.2	2834.3	2868.1	2794.9	2727.3	2645.7	2617.6	2583.8
25°	2817.4	2811.8	2839.9	2921.6	2969.4	2994.7	2935.6	2837.1	2730.2	2696.4	2702.0
27.5°	2975.0	2980.7	3006.0	3096.1	3166.4	3205.8	3135.5	3006.0	2901.8	2845.6	2839.9
30°	3180.5	3174.9	3203.0	3324.0	3450.7	3509.8	3386.0	3234.0	3132.6	3059.5	3076.4
32.5°	3397.2	3400.0	3478.8	3588.6	3794.1	3909.5	3709.6	3523.9	3371.9	3321.2	3295.9
35°	3718.1	3732.2	3794.1	3963.0	4190.9	4340.1	4120.6	3898.2	3723.7	3630.8	3642.1
37.5°	4114.9	4100.9	4205.0	4388.0	4627.2	4737.0	4551.2	4297.9	4120.6	4058.6	4098.1
40°	4537.1	4551.2	4604.7	4770.7	5038.1	5111.3	4835.5	4697.6	4542.8	4511.8	4559.6
42.5°	4959.3	4950.9	4990.3	5139.5	5333.7	5283.0	5119.8	5038.1	4928.4	4866.4	4931.2
45°	5268.9	5254.9	5328.0	5429.4	5499.7	5404.0	5330.8	5302.7	5246.4	5178.9	5238.0
47.5°	5570.1	5558.8	5629.2	5657.3	5663.0	5536.3	5550.4	5601.0	5460.3	5319.6	5387.1
50°	5826.2	5806.5	5893.8	5955.7	5941.6	5739.0	5789.6	5739.0	5519.4	5353.4	5328.0
52.5°	6254.0	6262.5	6355.4	6467.9	6434.2	6265.3	6192.1	5961.3	5679.9	5530.7	5443.4
55°	6524.2	6482.0	6642.4	6999.9	7039.3	6864.8	6541.1	6200.6	5778.4	5595.4	5572.9
56°	6270.9	6324.4	6577.7	6977.4	7180.0	7019.6	6549.6	6141.5	5677.0	5429.4	5412.5
57.5°	5626.4	5598.2	5941.6	6487.6	7039.3	6971.8	6318.8	5719.3	5178.9	4900.2	4866.4
60°	3501.4	3583.0	3884.1	4559.6	5297.1	5330.8	4683.5	4168.4	3537.9	3290.3	3349.4
62.5°	1370.7	1300.3	1488.9	1992.7	2499.4	2611.9	2367.1	1967.4	1615.6	1370.7	1353.8
65°	318.0	309.6	349.0	481.3	672.7	779.6	740.2	532.0	391.2	371.5	343.4
67.5°	180.1	180.1	171.7	171.7	188.6	199.8	191.4	188.6	197.0	205.5	202.7
70°	126.7	123.8	118.2	121.0	115.4	115.4	123.8	137.9	149.2	149.2	152.0
72.5°	76.0	76.0	76.0	84.4	84.4	84.4	92.9	104.1	107.0	104.1	101.3
75°	33.8	33.8	39.4	47.8	53.5	56.3	64.7	70.4	76.0	70.4	64.7
77.5°	8.4	8.4	14.1	19.7	25.3	31.0	42.2	50.7	53.5	50.7	42.2
80°	2.8	2.8	5.6	14.1	25.3	31.0	42.2	45.0	47.8	42.2	33.8
82.5°	2.8	2.8	5.6	14.1	19.7	25.3	33.8	39.4	42.2	36.6	33.8
85°	0.0	2.8	5.6	11.3	16.9	22.5	22.5	16.9	14.1	8.4	11.3
87.5°	0.0	0.0	2.8	2.8	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)