

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: P457761

Luminaire Tested: **GALN-SA9A-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31897 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

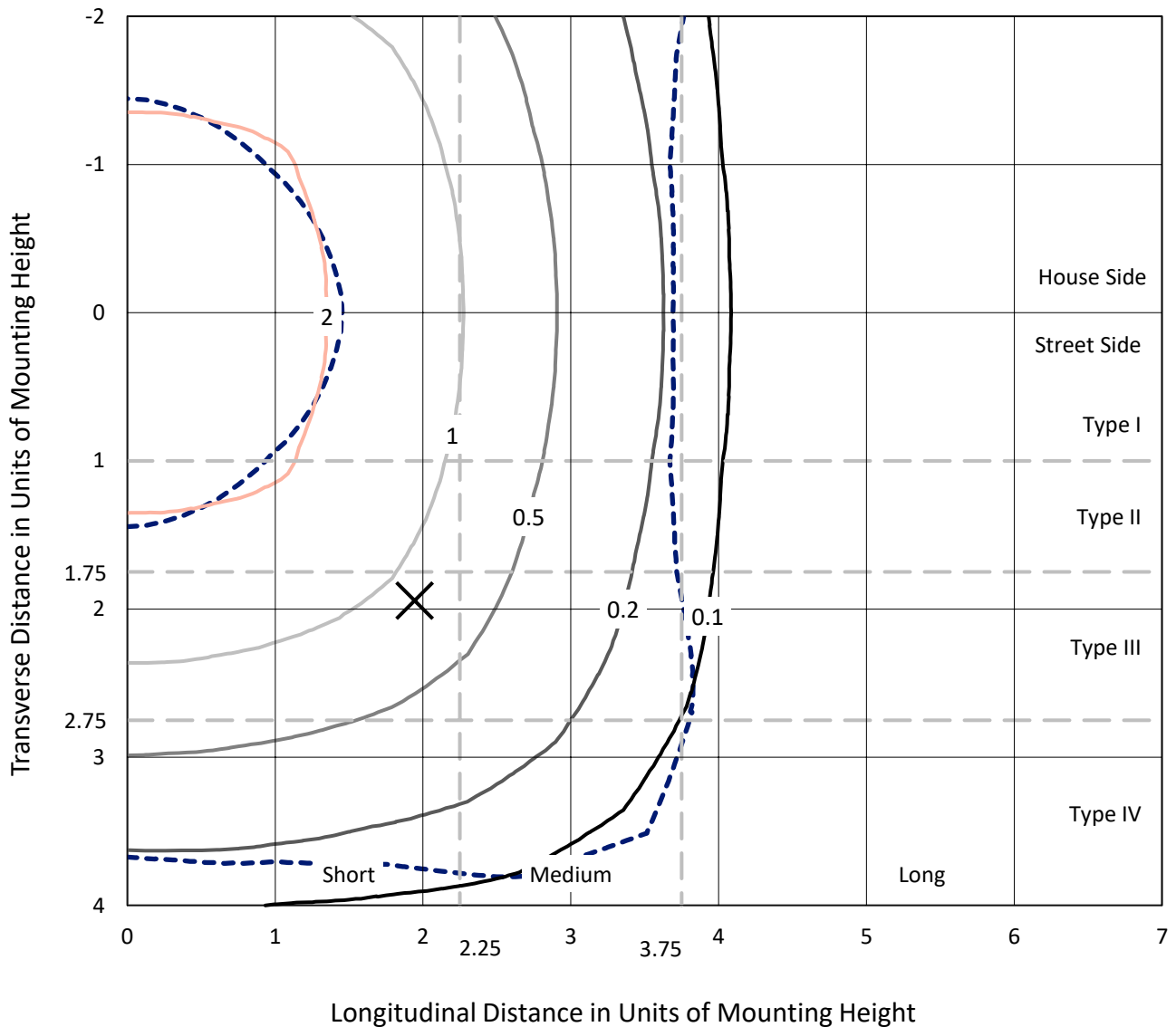
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457761
 CATALOG NUMBER: GALN-SA9A-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

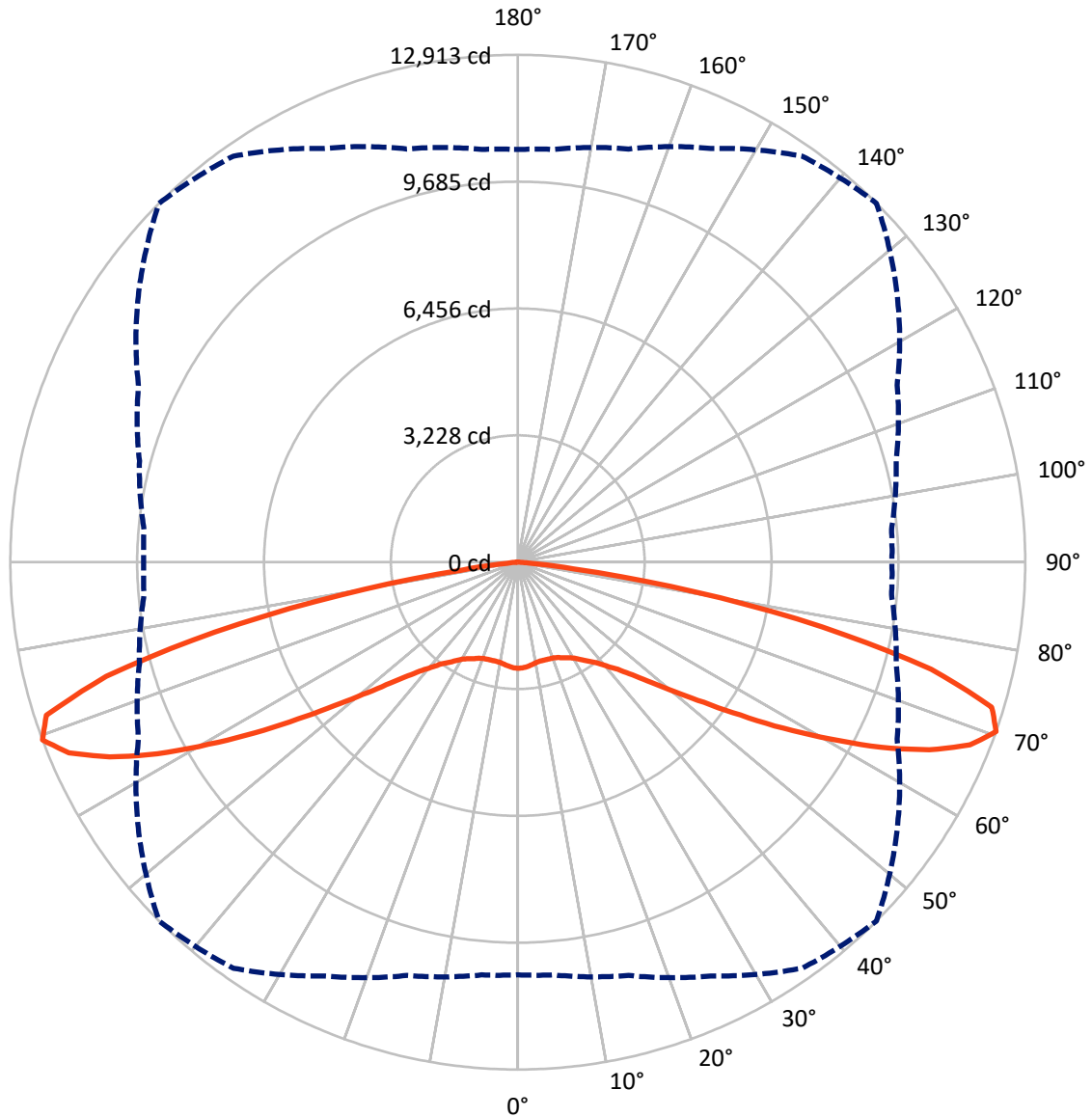
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

REPORT NUMBER: P457761
CATALOG NUMBER: GALN-SA9A-827-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15948.5	0.0	15948.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15948.5	0.0	15948.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31897.0	0.0	31897.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	0.8
10°-20°	739.3	2.3
20°-30°	1259.7	3.9
30°-40°	1952.5	6.1
40°-50°	3286.3	10.3
50°-60°	5979.2	18.7
60°-70°	10122.7	31.7
70°-80°	7835.3	24.6
80°-90°	469.5	1.5
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°	31897.0	100.0
0°-180°	31897.0	100.0



REPORT NUMBER: P457761

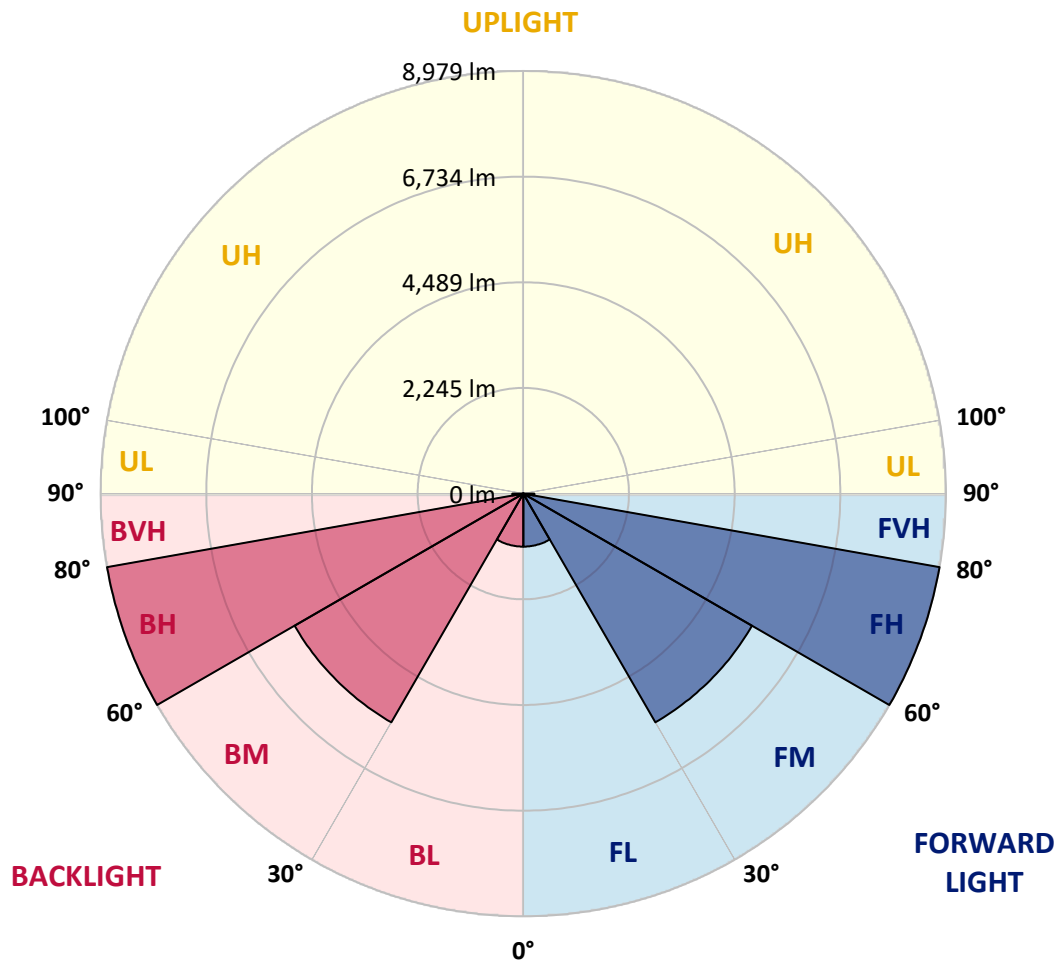
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1125.8	3.5			
FM	(30°-60°)	5609.0	17.6			
FH	(60°-80°)	8979.0	28.1			G4/12000
FVH	(80°-90°)	234.8	0.7			G3/500
BL	(0°-30°)	1125.8	3.5	B3/2500		
BM	(30°-60°)	5609.0	17.6	B4/8500		
BH	(60°-80°)	8979.0	28.1	B5		G4/12000
BVH	(80°-90°)	234.8	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2700.5	2700.5	2700.5	2700.5	2700.5	2700.5	2700.5	2700.5	2700.5	2700.5	2700.5
2.5°	2693.7	2695.4	2695.4	2692.0	2690.4	2690.4	2688.7	2688.7	2693.7	2695.4	2697.1
5°	2670.1	2670.1	2670.1	2668.5	2665.1	2665.1	2661.7	2661.7	2663.4	2668.5	2665.1
7.5°	2638.1	2641.5	2641.5	2634.8	2629.7	2629.7	2628.0	2629.7	2631.4	2636.5	2634.8
10°	2628.0	2629.7	2621.3	2609.5	2601.1	2596.0	2597.7	2601.1	2609.5	2612.9	2614.6
12.5°	2634.8	2634.8	2619.6	2602.8	2587.6	2580.9	2579.2	2591.0	2606.1	2616.2	2619.6
15°	2643.2	2639.8	2621.3	2599.4	2584.2	2582.5	2580.9	2589.3	2611.2	2631.4	2633.1
17.5°	2648.2	2646.6	2623.0	2596.0	2587.6	2587.6	2585.9	2592.7	2616.2	2641.5	2643.2
20°	2665.1	2660.0	2633.1	2604.4	2597.7	2601.1	2596.0	2604.4	2629.7	2660.0	2666.8
22.5°	2698.8	2693.7	2666.8	2638.1	2634.8	2634.8	2633.1	2641.5	2668.5	2700.5	2705.5
25°	2739.2	2734.2	2708.9	2688.7	2692.0	2698.8	2695.4	2697.1	2719.0	2746.0	2754.4
27.5°	2793.1	2784.7	2762.8	2746.0	2756.1	2756.1	2756.1	2754.4	2767.9	2793.1	2801.5
30°	2858.8	2855.5	2831.9	2830.2	2838.6	2830.2	2830.2	2831.9	2833.6	2857.1	2865.6
32.5°	2944.7	2938.0	2926.2	2922.8	2946.4	2953.2	2929.6	2907.7	2919.5	2943.1	2948.1
35°	3086.3	3076.1	3059.3	3040.8	3059.3	3091.3	3040.8	3023.9	3054.2	3086.3	3089.6
37.5°	3278.3	3273.2	3246.3	3212.6	3210.9	3244.6	3192.4	3190.7	3248.0	3286.7	3291.8
40°	3519.2	3524.3	3490.6	3458.6	3441.7	3468.7	3428.2	3443.4	3499.0	3542.8	3539.4
42.5°	3857.8	3839.3	3787.1	3756.7	3738.2	3728.1	3718.0	3741.6	3803.9	3851.1	3888.1
45°	4253.7	4247.0	4181.3	4144.2	4103.8	4088.6	4085.2	4127.4	4203.2	4260.4	4265.5
47.5°	4701.8	4686.7	4644.5	4605.8	4590.6	4572.1	4555.3	4587.3	4663.1	4703.5	4715.3
50°	5163.4	5166.8	5166.8	5160.0	5175.2	5178.6	5133.1	5144.9	5187.0	5183.6	5180.3
52.5°	5690.7	5709.2	5796.8	5805.3	5877.7	5926.5	5844.0	5795.1	5780.0	5689.0	5695.8
55°	6310.6	6327.5	6458.9	6590.3	6785.7	6868.3	6694.7	6543.1	6435.3	6297.2	6303.9
57.5°	7083.9	7092.3	7217.0	7469.7	7779.6	7973.4	7668.5	7368.6	7149.6	7018.2	6966.0
60°	7916.1	7924.5	8106.5	8414.8	8896.6	9132.4	8755.1	8264.8	7988.5	7788.1	7801.5
62.5°	8915.1	8948.8	9112.2	9536.7	10121.3	10385.8	9885.4	9230.1	8856.1	8606.8	8616.9
65°	9984.8	10042.1	10220.7	10687.3	11226.4	11511.1	10897.9	10141.5	9676.5	9371.6	9403.6
67.5°	10678.9	10729.4	10987.2	11502.7	12174.9	12410.7	11618.9	10737.9	10156.7	9792.8	9725.4
70°	10502.0	10544.1	10887.8	11618.9	12614.6	12912.7	11790.8	10650.3	9966.3	9546.8	9519.9
72.5°	9270.6	9183.0	9685.0	10734.5	12112.5	12612.9	11250.0	9727.1	8866.2	8435.0	8384.4
75°	6143.9	6334.2	7075.5	8312.0	10247.6	10867.6	9602.4	7810.0	6726.8	6367.9	6312.3
77.5°	2053.6	2200.1	2858.8	4711.9	6986.2	7917.8	6996.3	5107.8	3613.5	2911.1	2924.5
80°	544.1	537.4	695.8	1295.5	3018.9	4585.6	3514.2	1730.1	946.8	685.6	650.3
82.5°	195.4	219.0	281.3	358.8	800.2	1425.2	1005.7	485.2	355.5	262.8	254.4
85°	85.9	84.2	121.3	143.2	200.5	266.2	235.8	205.5	180.3	119.6	111.2
87.5°	18.5	18.5	28.6	21.9	35.4	35.4	43.8	52.2	53.9	35.4	28.6
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)