

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: P455441

Luminaire Tested: **GALN-SA6C-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455441
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-SA6C-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32075 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

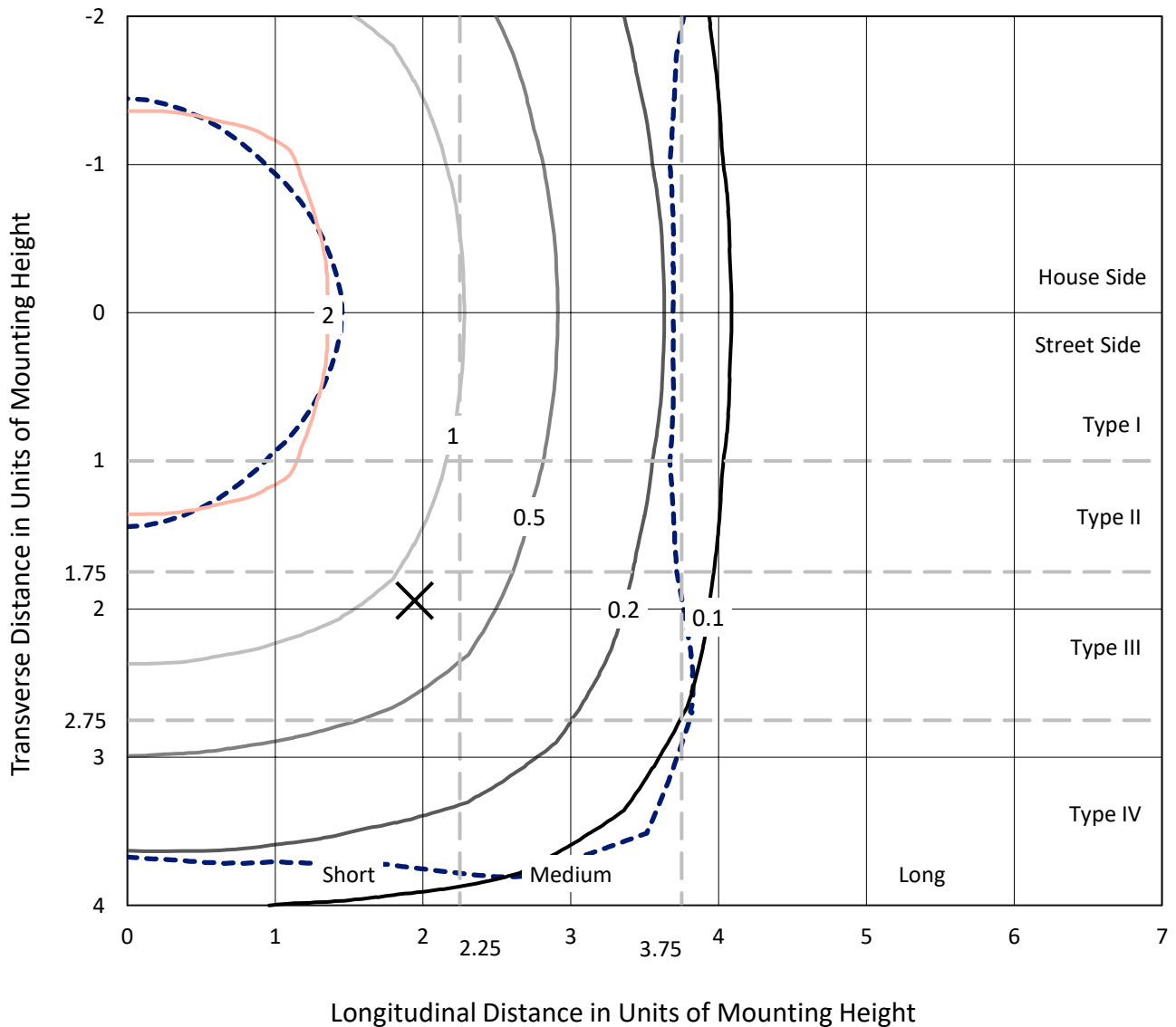
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

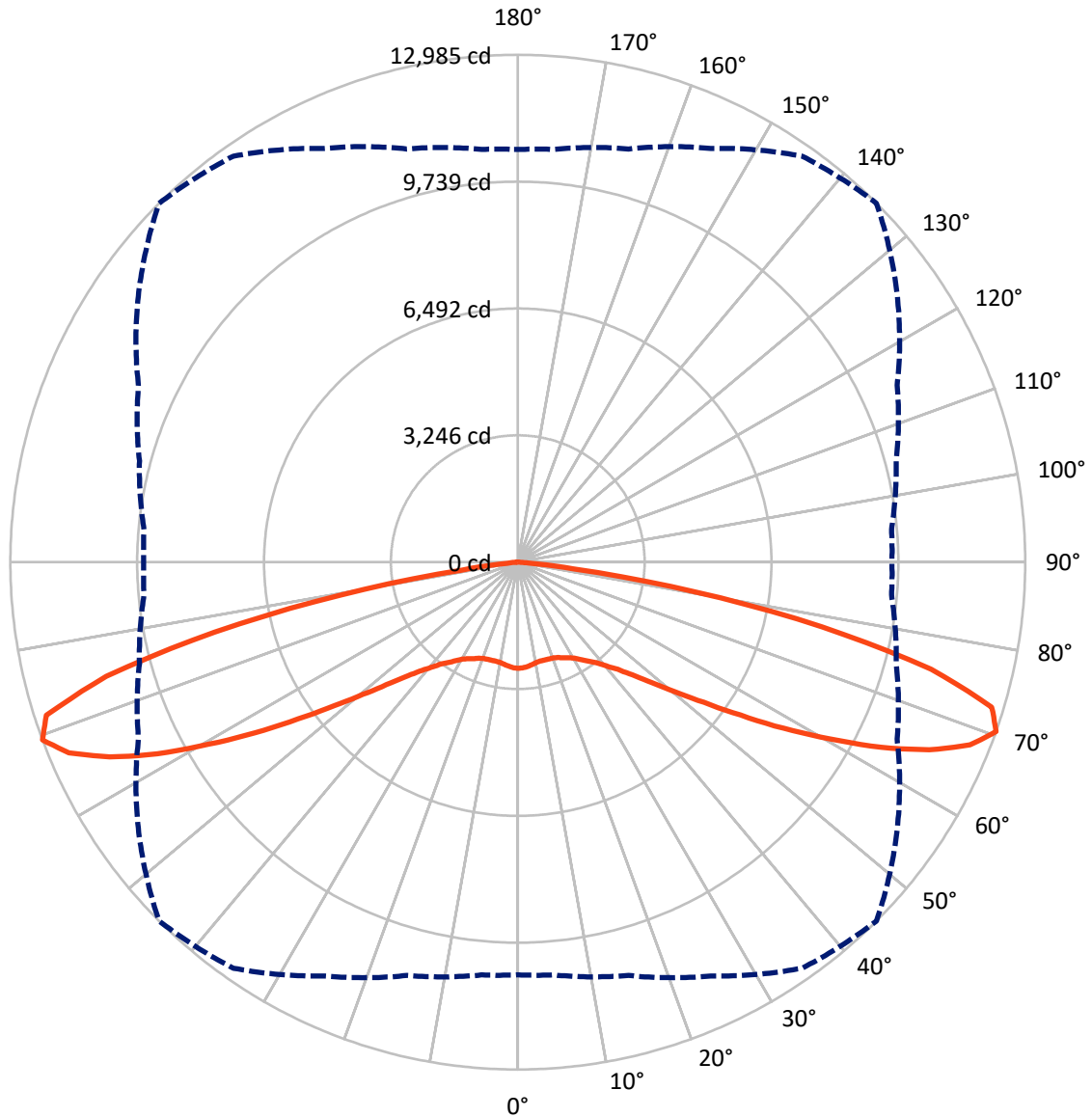
× Max cd
 - - - 1/2 Max cd



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

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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	16037.5	0.0	16037.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16037.5	0.0	16037.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32075.0	0.0	32075.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	0.8
10°-20°	743.5	2.3
20°-30°	1266.7	3.9
30°-40°	1963.4	6.1
40°-50°	3304.6	10.3
50°-60°	6012.6	18.7
60°-70°	10179.1	31.7
70°-80°	7879.1	24.6
80°-90°	472.1	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°	32075.0	100.0
0°-180°	32075.0	100.0

Coefficient of Utilization



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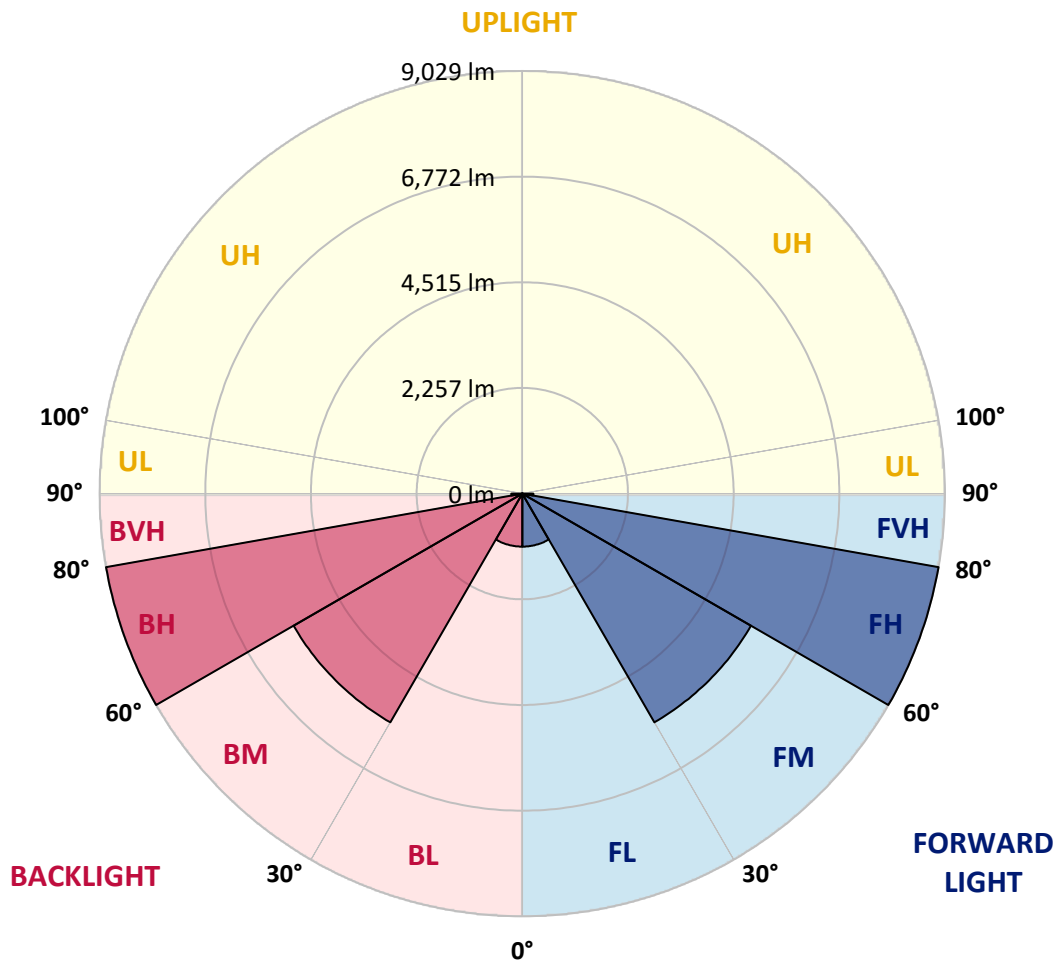
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.1	3.5			
FM (30°-60°)	5640.3	17.6			
FH (60°-80°)	9029.1	28.1			G4/12000
FVH (80°-90°)	236.1	0.7			G3/500
BL (0°-30°)	1132.1	3.5	B3/2500		
BM (30°-60°)	5640.3	17.6	B4/8500		
BH (60°-80°)	9029.1	28.1	B5		G4/12000
BVH (80°-90°)	236.1	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°	2715.5	2715.5	2715.5	2715.5	2715.5	2715.5	2715.5	2715.5	2715.5	2715.5	2715.5
2.5°	2708.8	2710.5	2710.5	2707.1	2705.4	2705.4	2703.7	2703.7	2708.8	2710.5	2712.2
5°	2685.0	2685.0	2685.0	2683.4	2680.0	2680.0	2676.6	2676.6	2678.3	2683.4	2680.0
7.5°	2652.9	2656.3	2656.3	2649.5	2644.4	2644.4	2642.7	2644.4	2646.1	2651.2	2649.5
10°	2642.7	2644.4	2635.9	2624.1	2615.6	2610.5	2612.2	2615.6	2624.1	2627.5	2629.1
12.5°	2649.5	2649.5	2634.2	2617.3	2602.0	2595.3	2593.6	2605.4	2620.7	2630.8	2634.2
15°	2657.9	2654.6	2635.9	2613.9	2598.7	2597.0	2595.3	2603.7	2625.8	2646.1	2647.8
17.5°	2663.0	2661.3	2637.6	2610.5	2602.0	2602.0	2600.3	2607.1	2630.8	2656.3	2657.9
20°	2680.0	2674.9	2647.8	2619.0	2612.2	2615.6	2610.5	2619.0	2644.4	2674.9	2681.7
22.5°	2713.8	2708.8	2681.7	2652.9	2649.5	2649.5	2647.8	2656.3	2683.4	2715.5	2720.6
25°	2754.5	2749.4	2724.0	2703.7	2707.1	2713.8	2710.5	2712.2	2734.2	2761.3	2769.8
27.5°	2808.7	2800.2	2778.2	2761.3	2771.4	2771.4	2771.4	2769.8	2783.3	2808.7	2817.2
30°	2874.8	2871.4	2847.7	2846.0	2854.5	2846.0	2846.0	2847.7	2849.4	2873.1	2881.6
32.5°	2961.2	2954.4	2942.5	2939.2	2962.9	2969.6	2945.9	2923.9	2935.8	2959.5	2964.6
35°	3103.5	3093.3	3076.4	3057.7	3076.4	3108.6	3057.7	3040.8	3071.3	3103.5	3106.9
37.5°	3296.6	3291.5	3264.4	3230.5	3228.8	3262.7	3210.2	3208.5	3266.1	3305.1	3310.1
40°	3538.8	3543.9	3510.0	3477.9	3460.9	3488.0	3447.4	3462.6	3518.5	3562.6	3559.2
42.5°	3879.3	3860.7	3808.2	3777.7	3759.1	3748.9	3738.7	3762.5	3825.1	3872.6	3909.8
45°	4277.4	4270.7	4204.6	4167.3	4126.7	4111.4	4108.0	4150.4	4226.6	4284.2	4289.3
47.5°	4728.1	4712.8	4670.5	4631.5	4616.3	4597.6	4580.7	4612.9	4689.1	4729.8	4741.6
50°	5192.2	5195.6	5195.6	5188.8	5204.1	5207.5	5161.7	5173.6	5215.9	5212.6	5209.2
52.5°	5722.5	5741.1	5829.2	5837.7	5910.5	5959.6	5876.6	5827.5	5812.2	5720.8	5727.5
55°	6345.9	6362.8	6494.9	6627.1	6823.6	6906.6	6732.1	6579.6	6471.2	6332.3	6339.1
57.5°	7123.4	7131.9	7257.3	7511.4	7823.1	8017.9	7711.3	7409.7	7189.5	7057.4	7004.8
60°	7960.3	7968.8	8151.7	8461.7	8946.2	9183.4	8803.9	8310.9	8033.1	7831.5	7845.1
62.5°	8964.8	8998.7	9163.0	9589.9	10177.8	10443.7	9940.6	9281.6	8905.6	8654.8	8665.0
65°	10040.6	10098.2	10277.7	10747.0	11289.1	11575.4	10958.7	10198.1	9730.5	9423.9	9456.1
67.5°	10738.5	10789.3	11048.5	11566.9	12242.8	12480.0	11683.8	10797.8	10213.3	9847.4	9779.7
70°	10560.6	10603.0	10948.6	11683.8	12685.0	12984.8	11856.6	10709.7	10021.9	9600.1	9573.0
72.5°	9322.3	9234.2	9739.0	10794.4	12180.1	12683.3	11312.8	9781.4	8915.7	8482.0	8431.2
75°	6178.2	6369.6	7115.0	8358.4	10304.8	10928.2	9656.0	7853.6	6764.3	6403.5	6347.6
77.5°	2065.0	2212.4	2874.8	4738.2	7025.2	7962.0	7035.3	5136.3	3633.7	2927.3	2940.8
80°	547.2	540.4	699.6	1302.7	3035.7	4611.2	3533.8	1739.8	952.0	689.5	653.9
82.5°	196.5	220.2	282.9	360.8	804.7	1433.2	1011.3	487.9	357.4	264.3	255.8
85°	86.4	84.7	122.0	144.0	201.6	267.7	237.2	206.7	181.3	120.3	111.8
87.5°	18.6	18.6	28.8	22.0	35.6	35.6	44.0	52.5	54.2	35.6	28.8
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)