

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: P454600

Luminaire Tested: **GALN-SA5D-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454600
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-SA5D-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33909 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

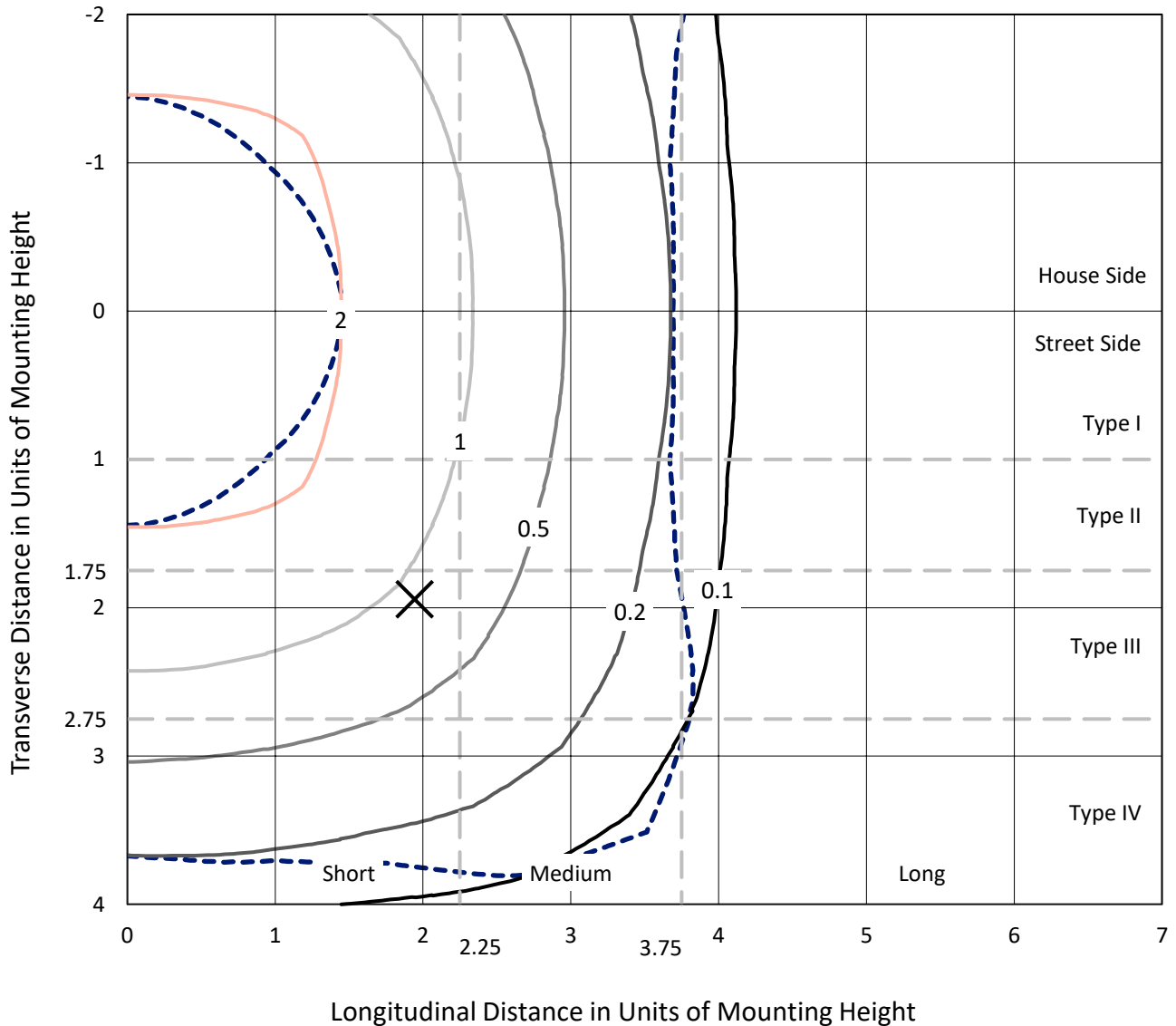
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

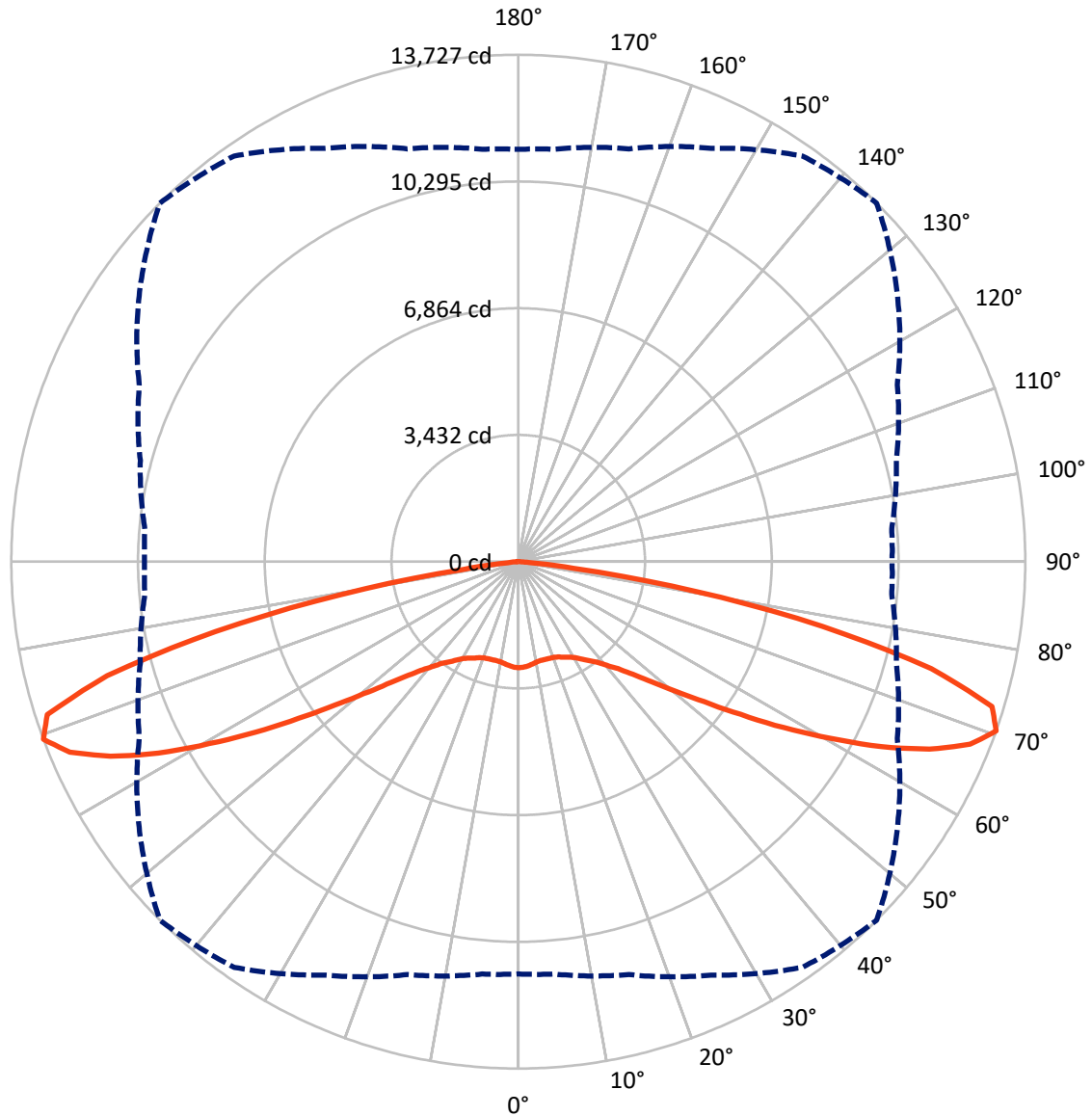
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	16954.5	0.0	16954.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16954.5	0.0	16954.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33909.0	0.0	33909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	0.8
10°-20°	786.0	2.3
20°-30°	1339.1	3.9
30°-40°	2075.6	6.1
40°-50°	3493.6	10.3
50°-60°	6356.4	18.7
60°-70°	10761.2	31.7
70°-80°	8329.6	24.6
80°-90°	499.1	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°	33909.0	100.0
0°-180°	33909.0	100.0

Coefficient of Utilization



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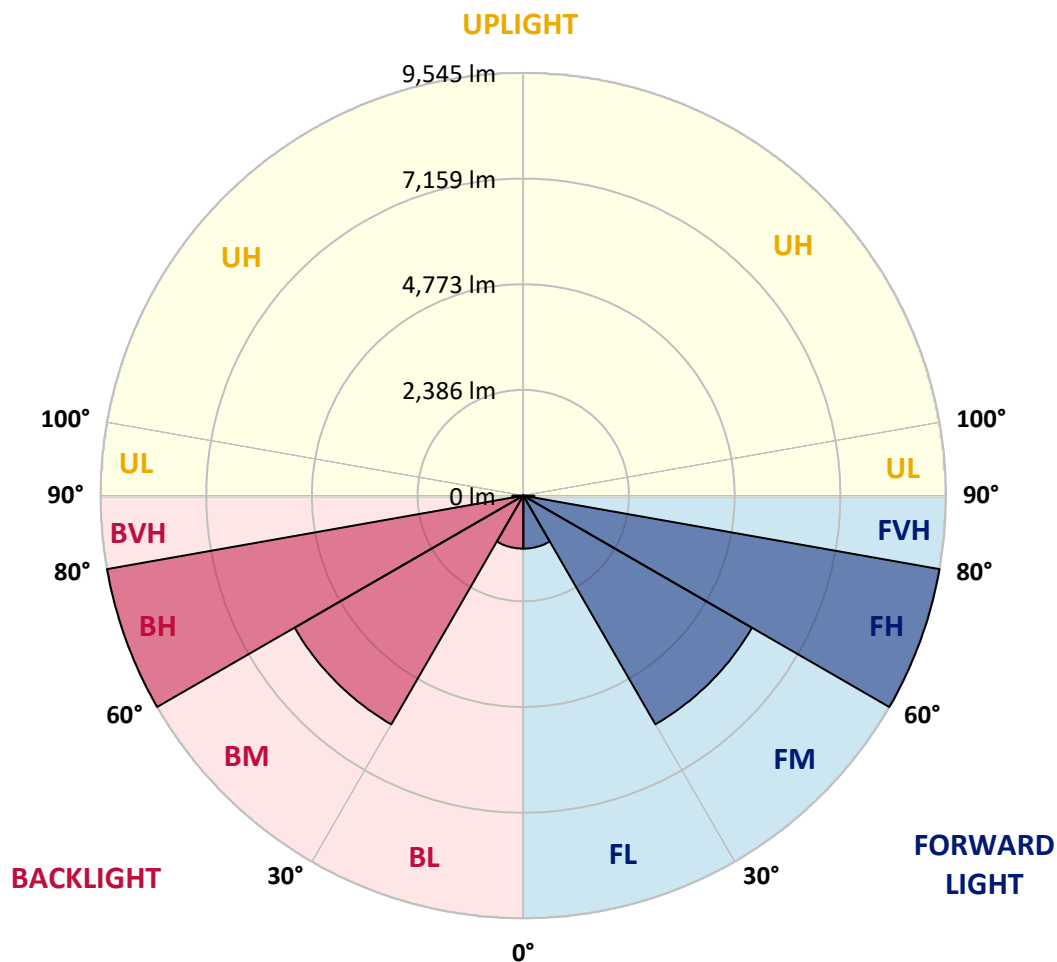
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1196.8	3.5			
FM (30°-60°)	5962.8	17.6			
FH (60°-80°)	9545.4	28.1			G4/12000
FVH (80°-90°)	249.6	0.7			G3/500
BL (0°-30°)	1196.8	3.5	B3/2500		
BM (30°-60°)	5962.8	17.6	B4/8500		
BH (60°-80°)	9545.4	28.1	B5		G4/12000
BVH (80°-90°)	249.6	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°	2870.8	2870.8	2870.8	2870.8	2870.8	2870.8	2870.8	2870.8	2870.8	2870.8	2870.8
2.5°	2863.6	2865.4	2865.4	2861.9	2860.1	2860.1	2858.3	2858.3	2863.6	2865.4	2867.2
5°	2838.6	2838.6	2838.6	2836.8	2833.2	2833.2	2829.6	2829.6	2831.4	2836.8	2833.2
7.5°	2804.5	2808.1	2808.1	2801.0	2795.6	2795.6	2793.8	2795.6	2797.4	2802.8	2801.0
10°	2793.8	2795.6	2786.6	2774.1	2765.1	2759.8	2761.6	2765.1	2774.1	2777.7	2779.5
12.5°	2801.0	2801.0	2784.8	2766.9	2750.8	2743.7	2741.9	2754.4	2770.5	2781.3	2784.8
15°	2809.9	2806.3	2786.6	2763.4	2747.2	2745.4	2743.7	2752.6	2775.9	2797.4	2799.2
17.5°	2815.3	2813.5	2788.4	2759.8	2750.8	2750.8	2749.0	2756.2	2781.3	2808.1	2809.9
20°	2833.2	2827.8	2799.2	2768.7	2761.6	2765.1	2759.8	2768.7	2795.6	2827.8	2835.0
22.5°	2869.0	2863.6	2835.0	2804.5	2801.0	2801.0	2799.2	2808.1	2836.8	2870.8	2876.2
25°	2912.0	2906.6	2879.8	2858.3	2861.9	2869.0	2865.4	2867.2	2890.5	2919.2	2928.1
27.5°	2969.3	2960.4	2937.1	2919.2	2929.9	2929.9	2929.9	2928.1	2942.4	2969.3	2978.3
30°	3039.2	3035.6	3010.5	3008.7	3017.7	3008.7	3008.7	3010.5	3012.3	3037.4	3046.3
32.5°	3130.5	3123.3	3110.8	3107.2	3132.3	3139.4	3114.4	3091.1	3103.6	3128.7	3134.1
35°	3280.9	3270.2	3252.3	3232.6	3252.3	3286.3	3232.6	3214.7	3246.9	3280.9	3284.5
37.5°	3485.1	3479.7	3451.1	3415.2	3413.5	3449.3	3393.8	3392.0	3452.9	3494.0	3499.4
40°	3741.2	3746.6	3710.7	3676.7	3658.8	3687.5	3644.5	3660.6	3719.7	3766.3	3762.7
42.5°	4101.2	4081.5	4025.9	3993.7	3974.0	3963.3	3952.5	3977.6	4043.9	4094.0	4133.4
45°	4522.0	4514.9	4445.0	4405.6	4362.6	4346.5	4342.9	4387.7	4468.3	4529.2	4534.6
47.5°	4998.4	4982.3	4937.5	4896.3	4880.2	4860.5	4842.6	4876.6	4957.2	5000.2	5012.7
50°	5489.1	5492.7	5492.7	5485.5	5501.6	5505.2	5456.9	5469.4	5514.2	5510.6	5507.0
52.5°	6049.7	6069.4	6162.5	6171.4	6248.4	6300.4	6212.6	6160.7	6144.6	6047.9	6055.0
55°	6708.7	6726.6	6866.3	7006.0	7213.7	7301.5	7117.0	6955.9	6841.2	6694.4	6701.5
57.5°	7530.7	7539.7	7672.2	7940.8	8270.4	8476.3	8152.2	7833.4	7600.6	7460.9	7405.4
60°	8415.4	8424.4	8617.8	8945.5	9457.7	9708.5	9307.3	8786.2	8492.4	8279.3	8293.7
62.5°	9477.4	9513.3	9687.0	10138.3	10759.7	11040.9	10509.0	9812.3	9414.8	9149.7	9160.5
65°	10614.7	10675.6	10865.4	11361.5	11934.6	12237.2	11585.3	10781.2	10286.9	9962.8	9996.8
67.5°	11352.5	11406.2	11680.2	12228.3	12942.8	13193.6	12351.8	11415.2	10797.3	10410.5	10338.9
70°	11164.5	11209.2	11574.6	12351.8	13410.3	13727.2	12534.5	11322.1	10595.0	10149.0	10120.4
72.5°	9855.3	9762.2	10295.9	11411.6	12876.6	13408.5	11959.6	10340.7	9425.5	8967.0	8913.3
75°	6531.4	6733.8	7521.8	8836.3	10894.0	11553.1	10208.1	8302.6	7151.1	6769.6	6710.5
77.5°	2183.1	2338.9	3039.2	5009.1	7426.9	8417.2	7437.6	5430.0	3841.5	3094.7	3109.0
80°	578.5	571.3	739.6	1377.2	3209.3	4874.8	3735.8	1839.3	1006.5	728.9	691.3
82.5°	207.7	232.8	299.1	381.5	850.7	1515.1	1069.2	515.8	377.9	279.4	270.4
85°	91.3	89.5	128.9	152.2	213.1	283.0	250.7	218.5	191.6	127.2	118.2
87.5°	19.7	19.7	30.4	23.3	37.6	37.6	46.6	55.5	57.3	37.6	30.4
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)