

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: P455673

Luminaire Tested: **GALN-SA6D-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455673
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-SA6D-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 35294 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

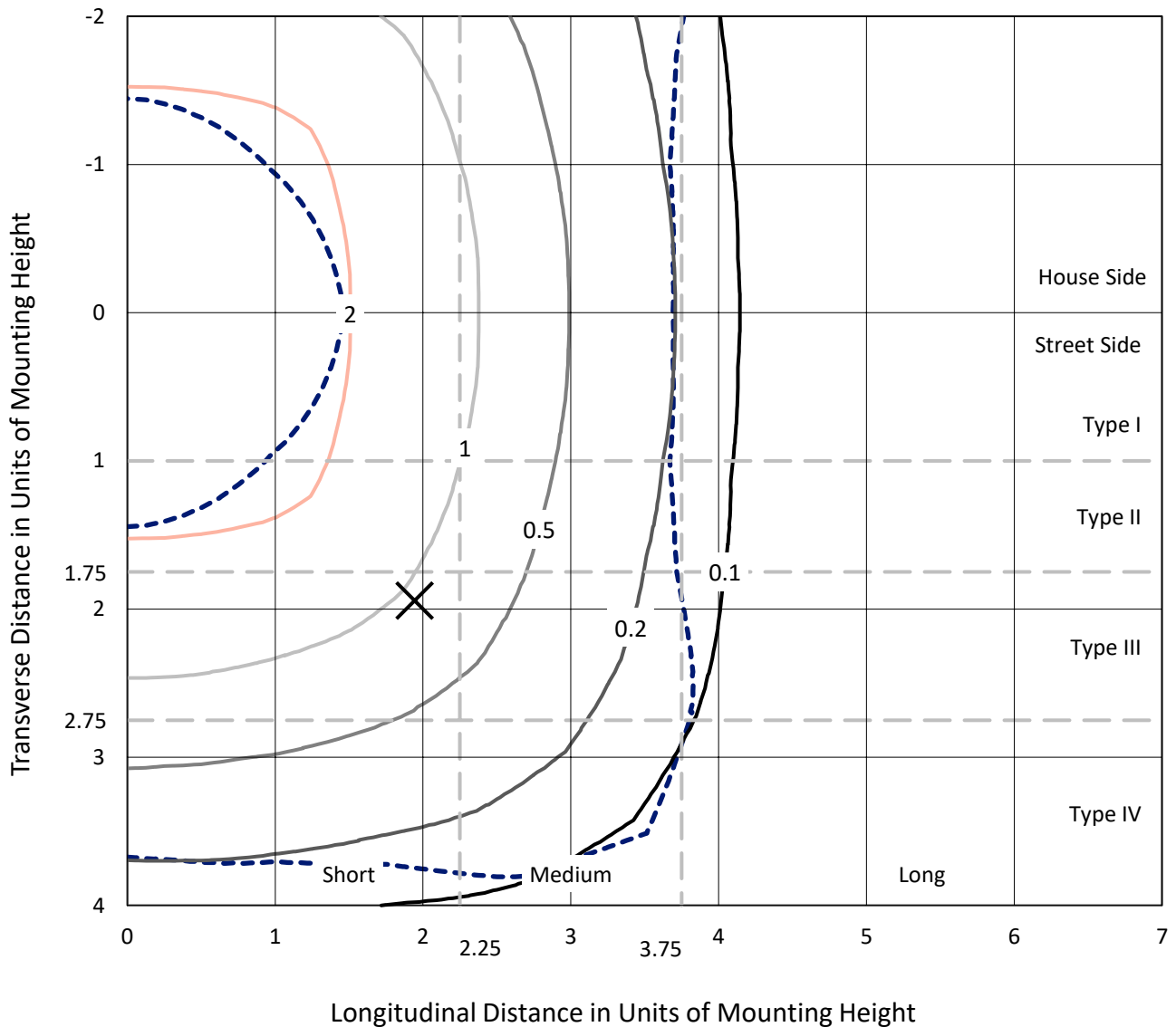
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

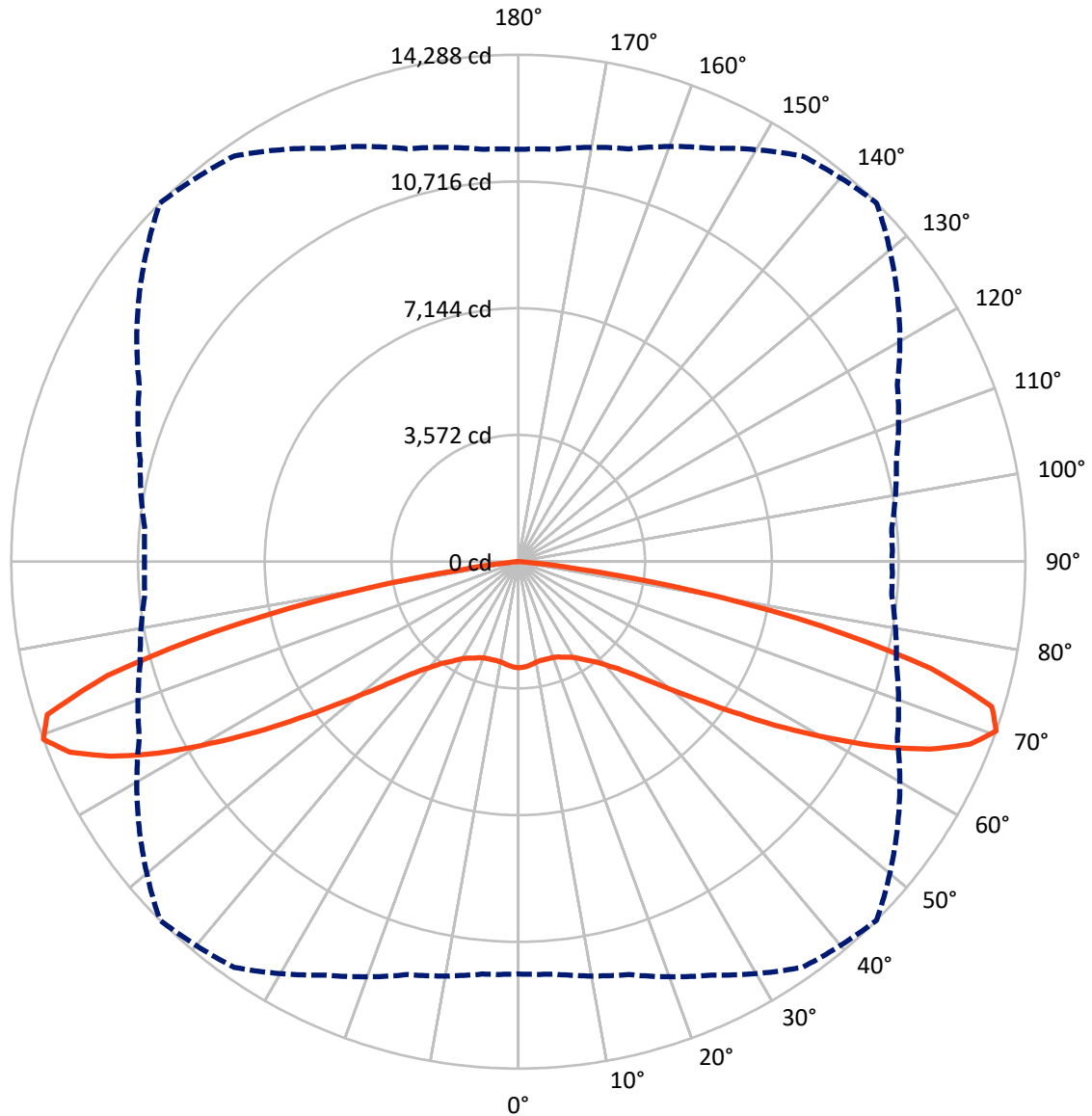
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	17647.0	0.0	17647.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17647.0	0.0	17647.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35294.0	0.0	35294.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	0.8
10°-20°	818.1	2.3
20°-30°	1393.8	3.9
30°-40°	2160.4	6.1
40°-50°	3636.3	10.3
50°-60°	6616.0	18.7
60°-70°	11200.7	31.7
70°-80°	8669.8	24.6
80°-90°	519.5	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°	35294.0	100.0
0°-180°	35294.0	100.0



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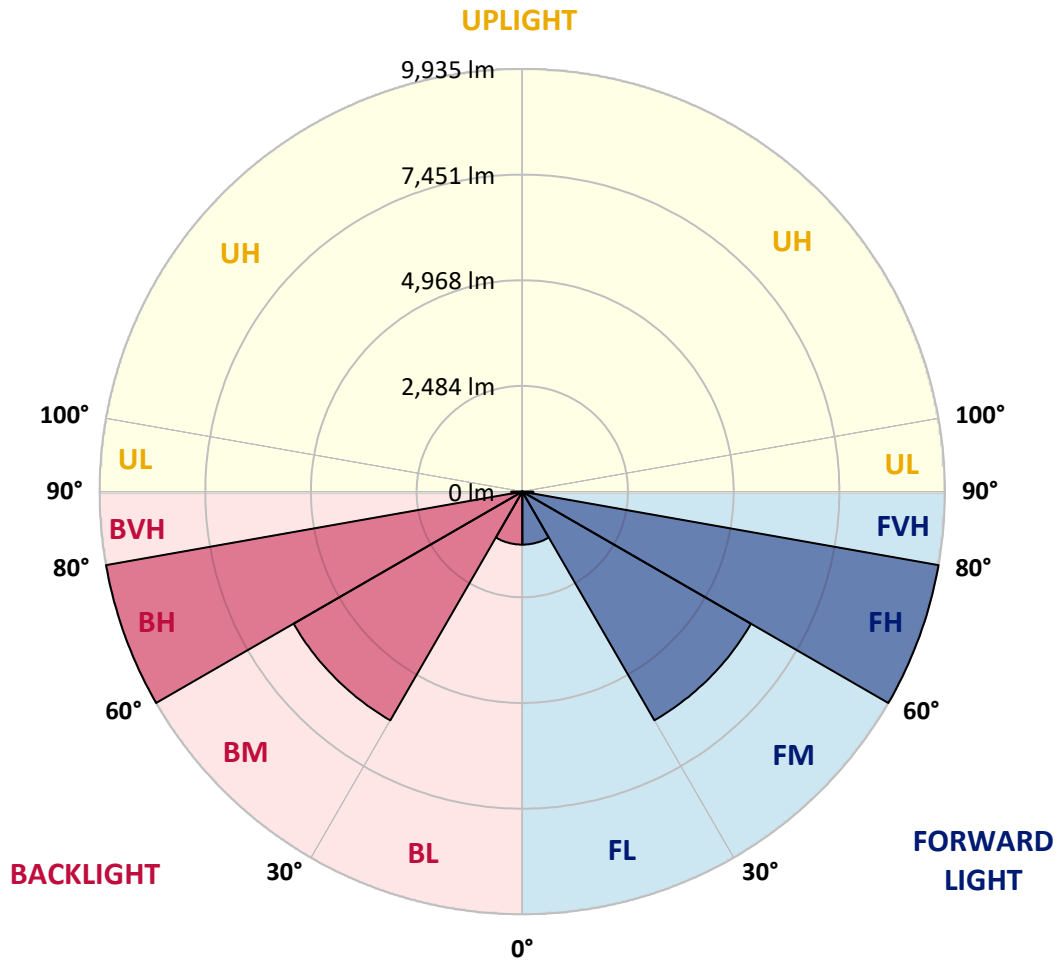
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.7	3.5			
FM (30°-60°)	6206.3	17.6			
FH (60°-80°)	9935.2	28.1			G4/12000
FVH (80°-90°)	259.7	0.7			G3/500
BL (0°-30°)	1245.7	3.5	B3/2500		
BM (30°-60°)	6206.3	17.6	B4/8500		
BH (60°-80°)	9935.2	28.1	B5		G4/12000
BVH (80°-90°)	259.7	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°	2988.1	2988.1	2988.1	2988.1	2988.1	2988.1	2988.1	2988.1	2988.1	2988.1	2988.1
2.5°	2980.6	2982.5	2982.5	2978.7	2976.9	2976.9	2975.0	2975.0	2980.6	2982.5	2984.3
5°	2954.5	2954.5	2954.5	2952.7	2948.9	2948.9	2945.2	2945.2	2947.1	2952.7	2948.9
7.5°	2919.1	2922.8	2922.8	2915.4	2909.8	2909.8	2907.9	2909.8	2911.6	2917.2	2915.4
10°	2907.9	2909.8	2900.5	2887.4	2878.1	2872.5	2874.4	2878.1	2887.4	2891.1	2893.0
12.5°	2915.4	2915.4	2898.6	2880.0	2863.2	2855.7	2853.9	2866.9	2883.7	2894.9	2898.6
15°	2924.7	2921.0	2900.5	2876.2	2859.4	2857.6	2855.7	2865.0	2889.3	2911.6	2913.5
17.5°	2930.3	2928.4	2902.3	2872.5	2863.2	2863.2	2861.3	2868.8	2894.9	2922.8	2924.7
20°	2948.9	2943.3	2913.5	2881.8	2874.4	2878.1	2872.5	2881.8	2909.8	2943.3	2950.8
22.5°	2986.2	2980.6	2950.8	2919.1	2915.4	2915.4	2913.5	2922.8	2952.7	2988.1	2993.7
25°	3030.9	3025.4	2997.4	2975.0	2978.7	2986.2	2982.5	2984.3	3008.6	3038.4	3047.7
27.5°	3090.6	3081.3	3057.0	3038.4	3049.6	3049.6	3049.6	3047.7	3062.6	3090.6	3099.9
30°	3163.3	3159.6	3133.5	3131.6	3140.9	3131.6	3131.6	3133.5	3135.3	3161.4	3170.7
32.5°	3258.4	3250.9	3237.9	3234.1	3260.2	3267.7	3241.6	3217.3	3230.4	3256.5	3262.1
35°	3414.9	3403.8	3385.1	3364.6	3385.1	3420.5	3364.6	3346.0	3379.5	3414.9	3418.7
37.5°	3627.4	3621.8	3592.0	3554.7	3552.9	3590.2	3532.4	3530.5	3593.9	3636.8	3642.4
40°	3894.0	3899.6	3862.3	3826.9	3808.3	3838.1	3793.3	3810.1	3871.6	3920.1	3916.4
42.5°	4268.7	4248.2	4190.4	4156.8	4136.3	4125.1	4114.0	4140.1	4209.0	4261.2	4302.2
45°	4706.7	4699.3	4626.6	4585.6	4540.8	4524.0	4520.3	4566.9	4650.8	4714.2	4719.8
47.5°	5202.6	5185.8	5139.2	5096.3	5079.5	5059.0	5040.4	5075.8	5159.7	5204.4	5217.5
50°	5713.3	5717.0	5717.0	5709.6	5726.4	5730.1	5679.8	5692.8	5739.4	5735.7	5731.9
52.5°	6296.8	6317.3	6414.2	6423.5	6503.7	6557.7	6466.4	6412.3	6395.5	6294.9	6302.3
55°	6982.7	7001.4	7146.8	7292.2	7508.4	7599.7	7407.7	7240.0	7120.7	6967.8	6975.3
57.5°	7838.3	7847.6	7985.6	8265.2	8608.2	8822.5	8485.1	8153.3	7911.0	7765.6	7707.8
60°	8759.2	8768.5	8969.8	9310.9	9844.0	10105.0	9687.5	9145.0	8839.3	8617.5	8632.4
62.5°	9864.5	9901.8	10082.6	10552.4	11199.2	11491.9	10938.2	10213.1	9799.3	9523.4	9534.6
65°	11048.2	11111.6	11309.2	11825.5	12422.0	12737.0	12058.5	11221.6	10707.1	10369.7	10405.1
67.5°	11816.2	11872.1	12157.3	12727.7	13471.5	13732.4	12856.3	11881.4	11238.3	10835.7	10761.2
70°	11620.5	11667.1	12047.3	12856.3	13958.0	14287.9	13046.5	11784.5	11027.7	10563.6	10533.7
72.5°	10257.9	10160.9	10716.4	11877.7	13402.5	13956.1	12448.1	10763.0	9810.5	9333.3	9277.4
75°	6798.2	7008.8	7829.0	9197.2	11339.0	12025.0	10625.1	8641.7	7443.1	7046.1	6984.6
77.5°	2272.3	2434.4	3163.3	5213.7	7730.2	8761.0	7741.4	5651.8	3998.4	3221.1	3236.0
80°	602.1	594.6	769.9	1433.5	3340.4	5073.9	3888.4	1914.4	1047.6	758.7	719.5
82.5°	216.2	242.3	311.3	397.0	885.4	1577.0	1112.8	536.8	393.3	290.8	281.5
85°	95.1	93.2	134.2	158.4	221.8	294.5	261.0	227.4	199.5	132.3	123.0
87.5°	20.5	20.5	31.7	24.2	39.1	39.1	48.5	57.8	59.6	39.1	31.7
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)