

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: P455207

Luminaire Tested: **GALN-SA6B-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26015 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 243
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

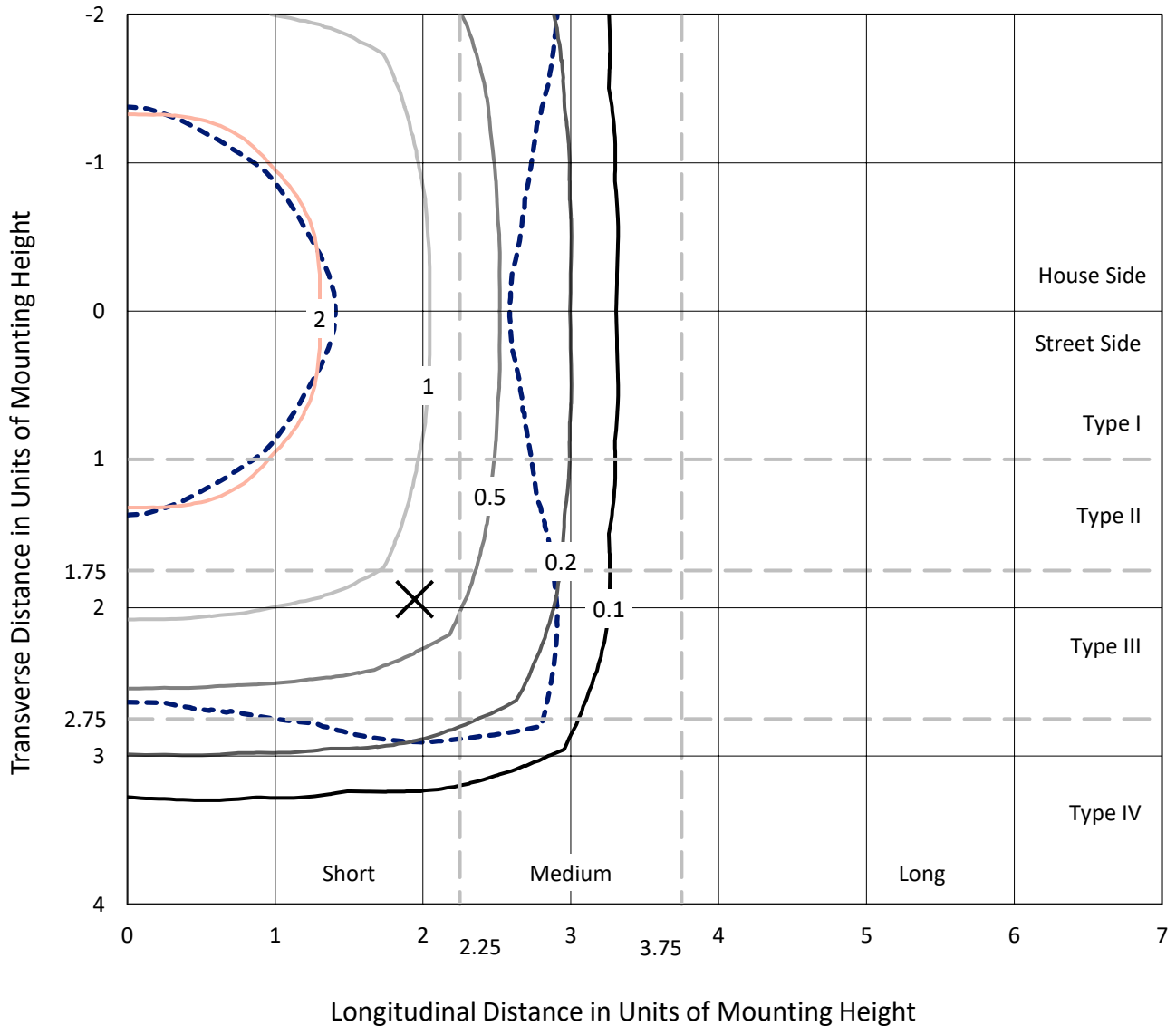




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Iso-Footcandle Lines of Horizontal Illumination

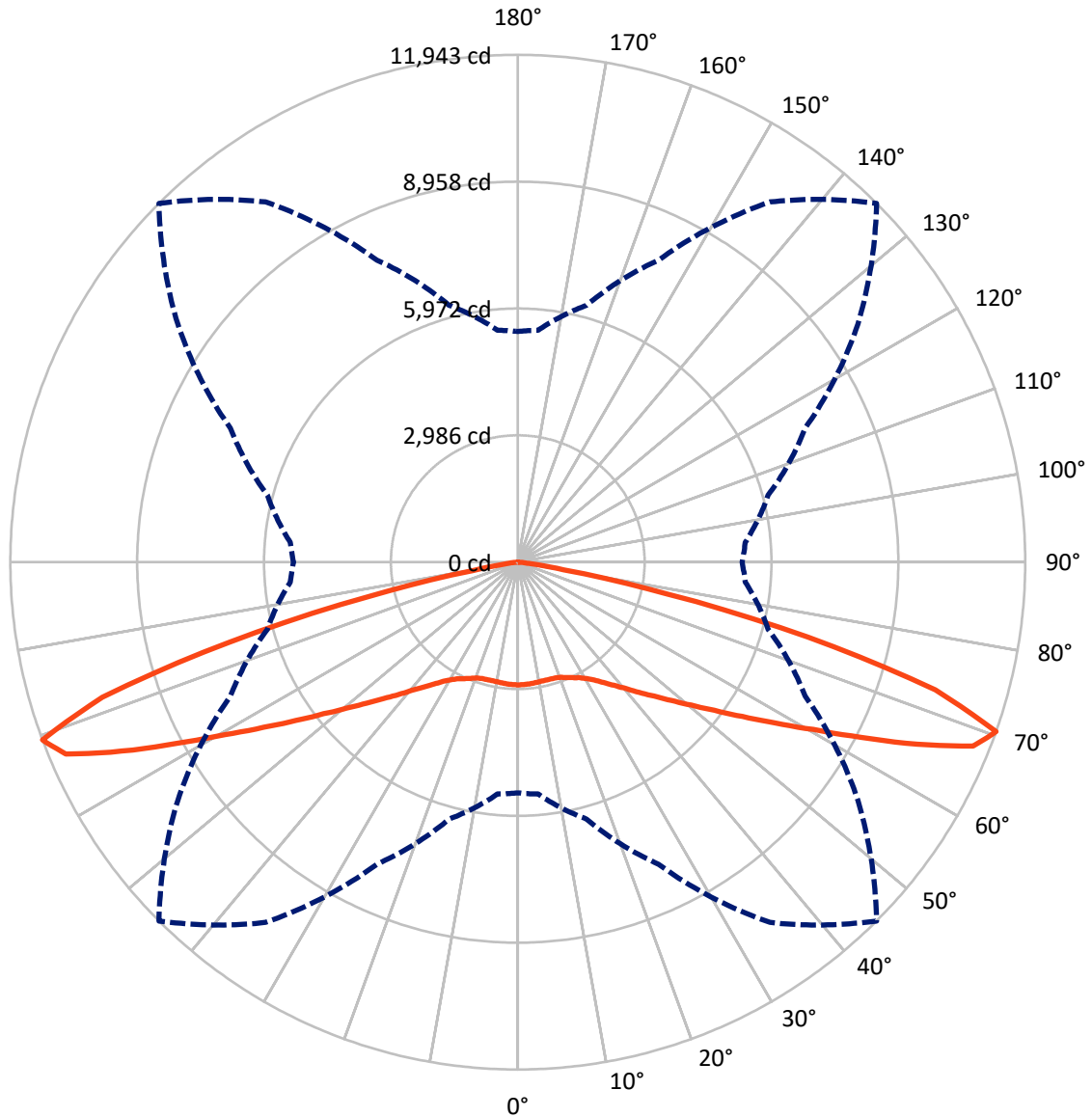
× Max cd
 - - - 1/2 Max cd



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	13007.5	0.0	13007.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13007.5	0.0	13007.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26015.0	0.0	26015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	1.1
10°-20°	803.9	3.1
20°-30°	1374.9	5.3
30°-40°	2182.2	8.4
40°-50°	3520.5	13.5
50°-60°	5727.9	22.0
60°-70°	8303.4	31.9
70°-80°	3683.1	14.2
80°-90°	145.3	0.6
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°	26015.0	100.0
0°-180°	26015.0	100.0

Coefficient of Utilization



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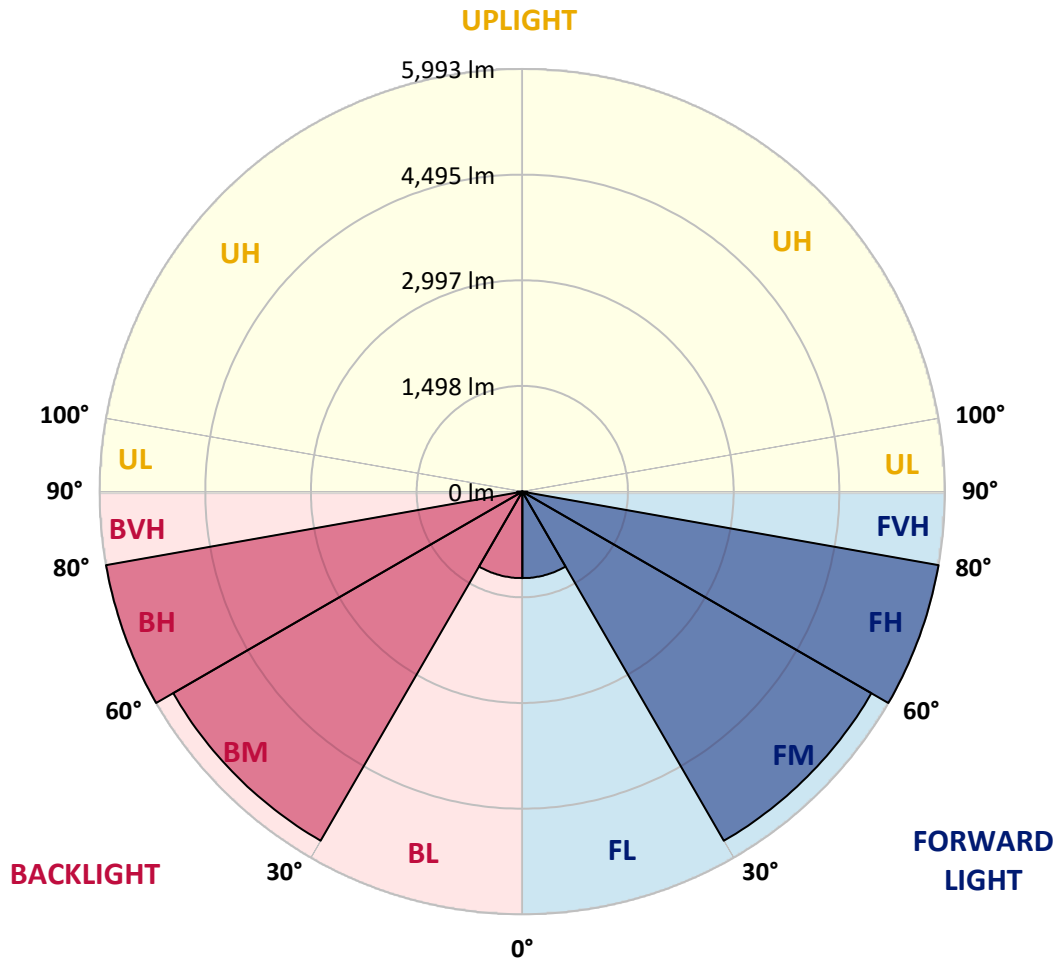
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1226.3	4.7			
FM (30°-60°)	5715.3	22.0			
FH (60°-80°)	5993.2	23.0			G3/7500
FVH (80°-90°)	72.6	0.3			G1/100
BL (0°-30°)	1226.3	4.7	B3/2500		
BM (30°-60°)	5715.3	22.0	B4/8500		
BH (60°-80°)	5993.2	23.0	B5		G3/7500
BVH (80°-90°)	72.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2888.8	2888.8	2888.8	2888.8	2888.8	2888.8	2888.8	2888.8	2888.8	2888.8	2888.8
2.5°	2888.8	2891.6	2887.5	2884.7	2883.4	2883.4	2882.0	2883.4	2891.6	2893.0	2888.8
5°	2880.6	2883.4	2882.0	2879.2	2877.9	2877.9	2876.5	2875.1	2882.0	2884.7	2883.4
7.5°	2869.6	2871.0	2869.6	2868.3	2869.6	2868.3	2864.2	2861.4	2866.9	2866.9	2865.5
10°	2850.5	2853.2	2851.8	2853.2	2855.9	2855.9	2850.5	2845.0	2846.3	2843.6	2843.6
12.5°	2827.1	2831.3	2832.6	2838.1	2845.0	2853.2	2840.9	2828.5	2825.8	2824.4	2823.0
15°	2812.1	2816.2	2821.7	2827.1	2839.5	2857.3	2839.5	2820.3	2814.8	2809.3	2806.6
17.5°	2808.0	2813.4	2821.7	2829.9	2846.3	2864.2	2849.1	2829.9	2816.2	2808.0	2805.2
20°	2818.9	2823.0	2835.4	2850.5	2873.8	2891.6	2876.5	2855.9	2835.4	2823.0	2818.9
22.5°	2840.9	2847.7	2862.8	2890.2	2923.1	2949.2	2928.6	2894.3	2861.4	2845.0	2839.5
25°	2888.8	2894.3	2912.2	2949.2	2987.6	3012.2	2990.3	2950.5	2905.3	2883.4	2876.5
27.5°	2961.5	2969.7	2988.9	3032.8	3064.3	3078.1	3063.0	3035.5	3002.6	2979.3	2973.8
30°	3064.3	3073.9	3102.7	3149.3	3169.9	3178.1	3171.3	3153.5	3130.2	3105.5	3100.0
32.5°	3202.8	3208.3	3241.2	3285.1	3304.3	3307.0	3298.8	3290.6	3252.2	3211.0	3208.3
35°	3357.7	3367.3	3407.1	3459.2	3477.0	3478.4	3462.0	3449.6	3404.4	3371.5	3371.5
37.5°	3563.4	3567.5	3605.9	3664.9	3684.1	3678.6	3670.4	3659.4	3611.4	3568.9	3570.3
40°	3804.7	3812.9	3845.8	3914.4	3914.4	3907.5	3913.0	3904.8	3856.8	3815.7	3817.1
42.5°	4091.3	4095.4	4135.1	4207.8	4202.3	4188.6	4194.1	4183.1	4153.0	4106.4	4089.9
45°	4397.0	4413.5	4482.0	4552.0	4541.0	4497.1	4519.0	4516.3	4488.9	4419.0	4423.1
47.5°	4765.8	4793.3	4859.1	4942.7	4930.4	4861.8	4886.5	4902.9	4864.6	4787.8	4774.1
50°	5181.3	5199.1	5296.4	5374.6	5363.6	5291.0	5347.2	5349.9	5253.9	5145.6	5145.6
52.5°	5624.1	5642.0	5773.6	5895.6	5902.5	5796.9	5842.1	5839.4	5683.1	5540.5	5513.1
55°	6120.5	6128.7	6298.7	6478.3	6516.7	6413.9	6419.3	6364.5	6161.6	5995.7	5980.6
57.5°	6633.2	6663.4	6851.2	7084.3	7198.1	7135.0	7106.3	6959.5	6763.5	6572.9	6563.3
60°	7200.9	7202.2	7446.3	7721.9	7952.2	7994.7	7876.8	7680.7	7427.1	7174.8	7163.8
62.5°	7594.4	7653.3	7961.8	8428.0	8840.7	9079.2	8768.0	8356.7	7857.6	7450.4	7409.3
65°	7675.2	7715.0	8185.3	8975.0	9818.2	10332.4	9612.6	8737.8	7886.4	7343.4	7316.0
67.5°	7021.2	7063.7	7697.2	8909.2	10503.8	11558.1	10161.0	8554.1	7398.3	6726.5	6673.0
70°	5430.8	5478.8	6261.7	7842.5	10351.6	11943.4	9770.2	7461.4	6101.3	5376.0	5278.6
72.5°	2887.5	3064.3	3733.4	5382.8	8401.9	10283.0	8011.2	5444.5	3935.0	3216.5	3087.6
75°	1054.4	1076.3	1449.2	2387.0	4887.9	7051.4	5075.7	2596.8	1493.1	1153.1	1094.1
77.5°	436.0	434.6	477.1	721.2	1775.5	3611.4	1981.2	762.3	475.8	440.1	434.6
80°	257.8	257.8	283.8	300.3	467.5	1090.0	522.4	340.0	285.2	260.5	264.6
82.5°	115.2	122.0	179.6	189.2	226.2	298.9	252.3	216.6	186.5	128.9	116.5
85°	63.1	54.8	94.6	98.7	108.3	111.1	119.3	117.9	108.3	63.1	64.4
87.5°	12.3	15.1	27.4	20.6	23.3	20.6	27.4	38.4	39.8	21.9	17.8
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)