

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: P454859

Luminaire Tested: **GALN-SA6A-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454859
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-SA6A-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25902 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

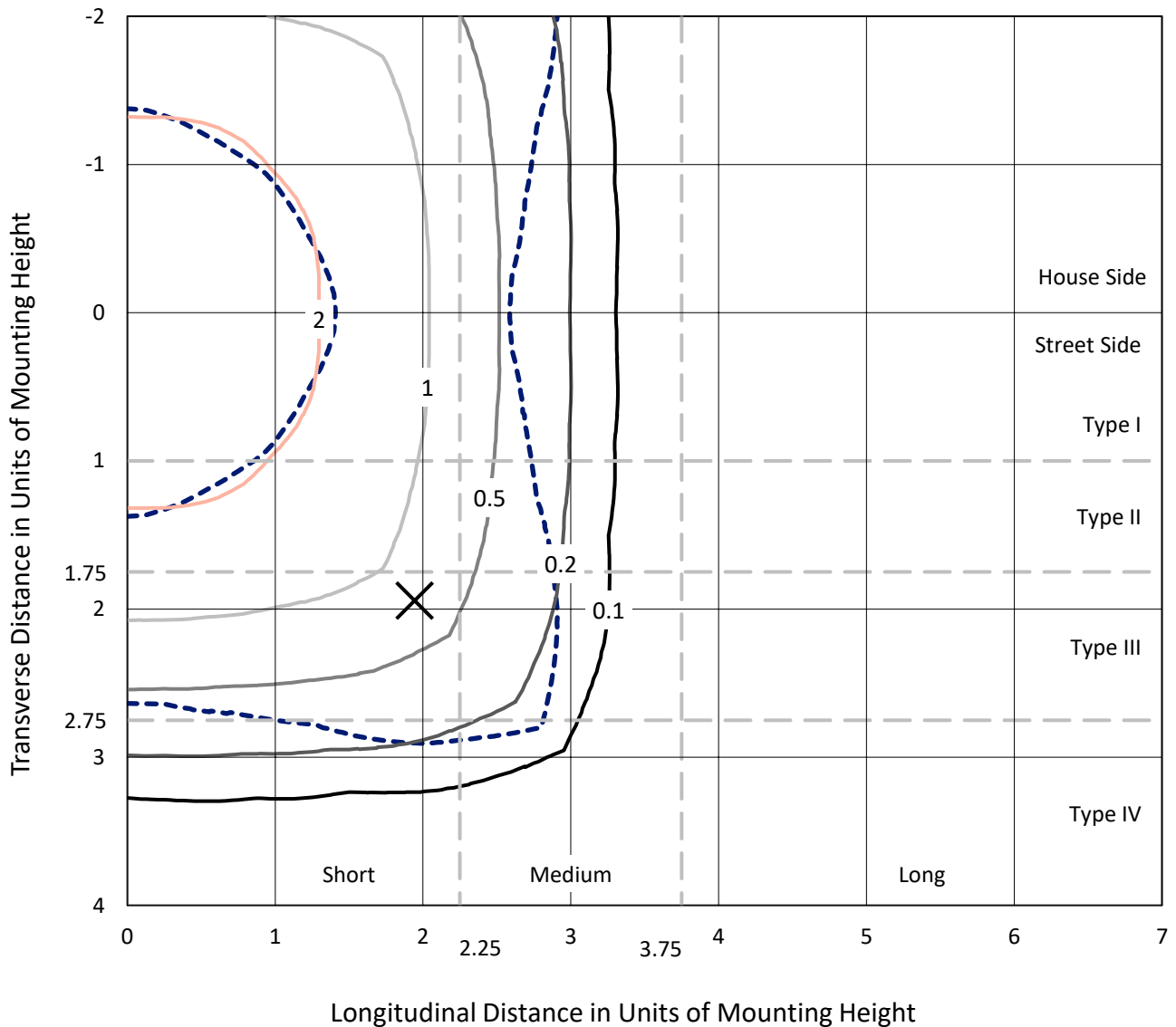
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

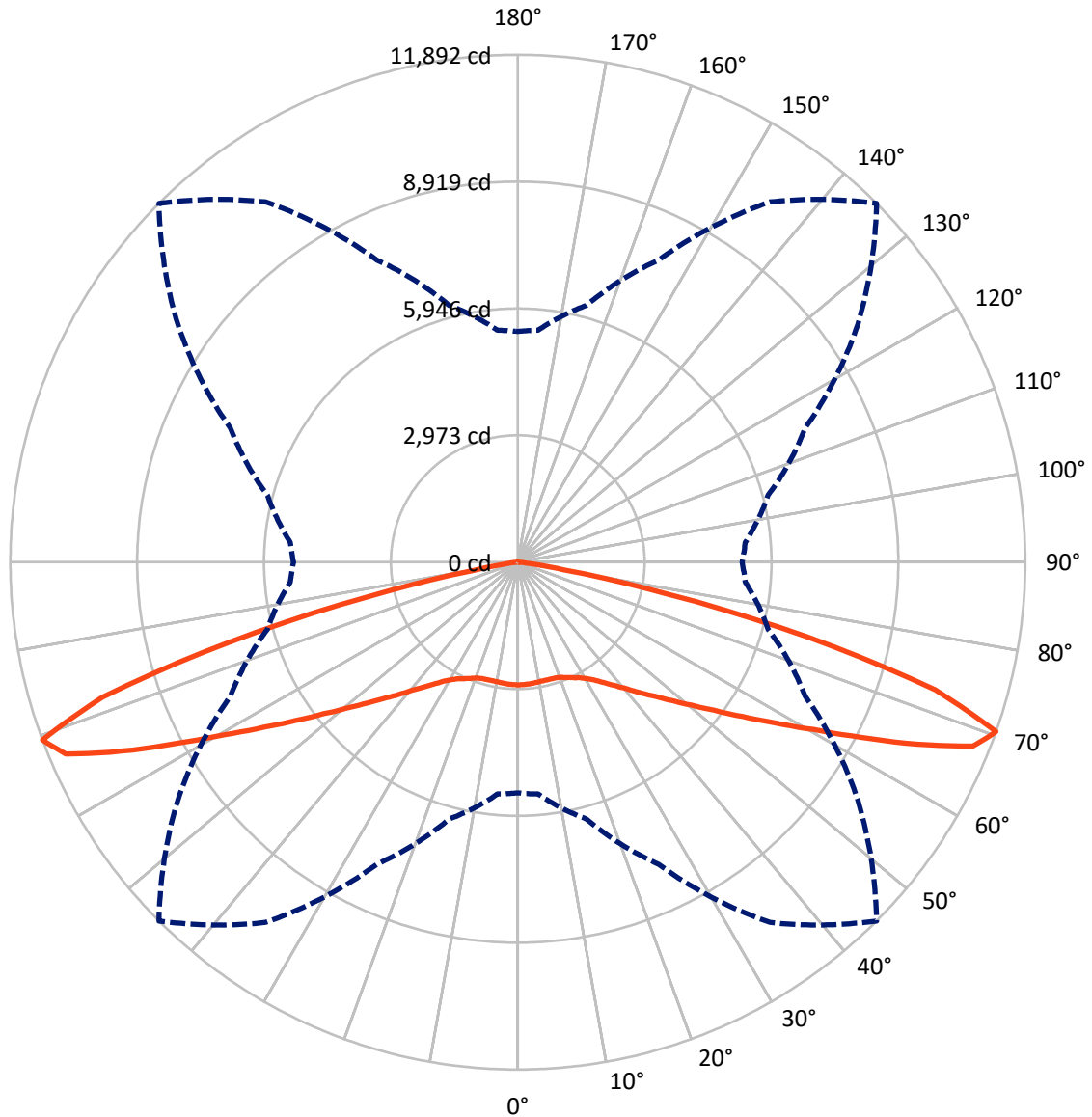
× Max cd
 - - - 1/2 Max cd



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	12951.0	0.0	12951.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12951.0	0.0	12951.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25902.0	0.0	25902.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.8	1.1
10°-20°	800.4	3.1
20°-30°	1368.9	5.3
30°-40°	2172.7	8.4
40°-50°	3505.2	13.5
50°-60°	5703.0	22.0
60°-70°	8267.3	31.9
70°-80°	3667.1	14.2
80°-90°	144.6	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°	25902.0	100.0
0°-180°	25902.0	100.0



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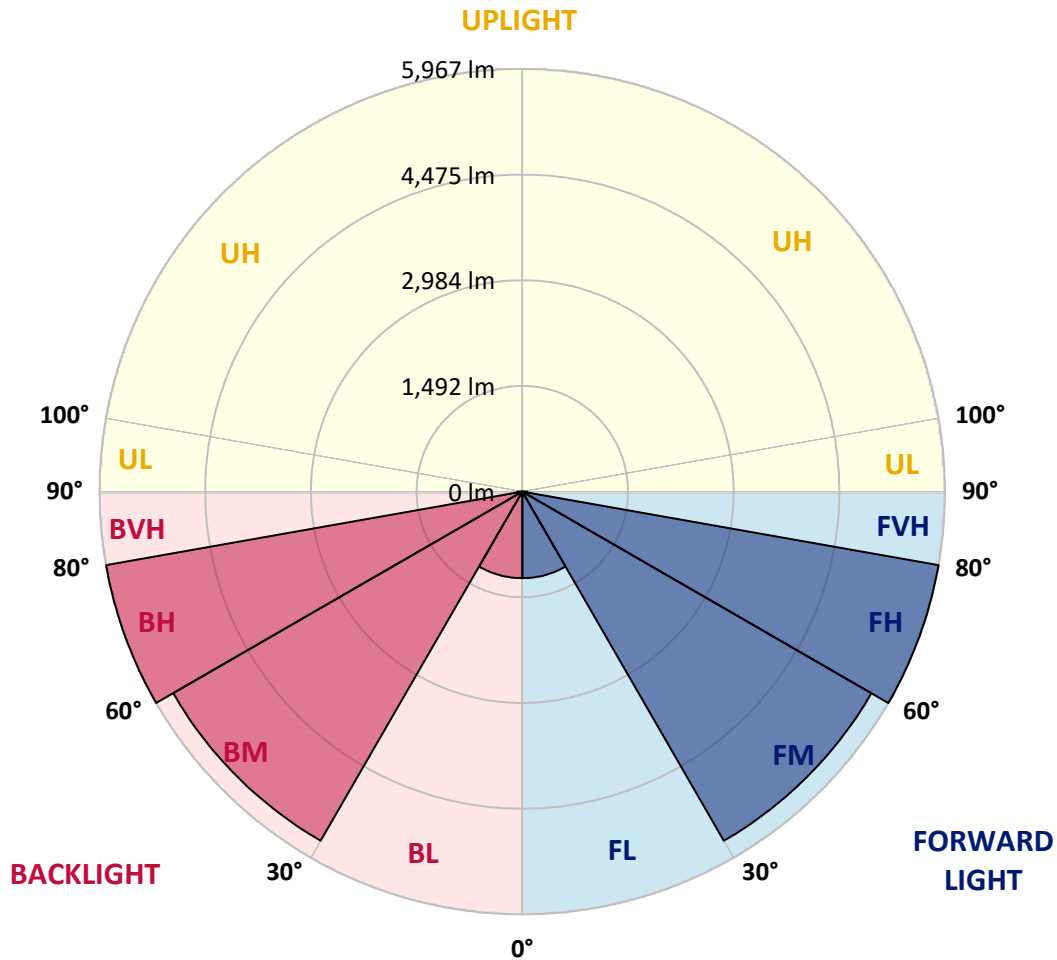
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.0	4.7			
FM (30°-60°)	5690.5	22.0			
FH (60°-80°)	5967.2	23.0			G3/7500
FVH (80°-90°)	72.3	0.3			G1/100
BL (0°-30°)	1221.0	4.7	B3/2500		
BM (30°-60°)	5690.5	22.0	B4/8500		
BH (60°-80°)	5967.2	23.0	B5		G3/7500
BVH (80°-90°)	72.3	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°	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3	2876.3
2.5°	2876.3	2879.0	2874.9	2872.2	2870.8	2870.8	2869.5	2870.8	2879.0	2880.4	2876.3
5°	2868.1	2870.8	2869.5	2866.7	2865.4	2865.4	2864.0	2862.6	2869.5	2872.2	2870.8
7.5°	2857.2	2858.5	2857.2	2855.8	2857.2	2855.8	2851.7	2849.0	2854.5	2854.5	2853.1
10°	2838.1	2840.8	2839.4	2840.8	2843.5	2843.5	2838.1	2832.6	2834.0	2831.2	2831.2
12.5°	2814.9	2819.0	2820.3	2825.8	2832.6	2840.8	2828.5	2816.2	2813.5	2812.1	2810.8
15°	2799.8	2803.9	2809.4	2814.9	2827.2	2844.9	2827.2	2808.0	2802.6	2797.1	2794.4
17.5°	2795.8	2801.2	2809.4	2817.6	2834.0	2851.7	2836.7	2817.6	2803.9	2795.8	2793.0
20°	2806.7	2810.8	2823.1	2838.1	2861.3	2879.0	2864.0	2843.5	2823.1	2810.8	2806.7
22.5°	2828.5	2835.3	2850.4	2877.7	2910.4	2936.4	2915.9	2881.8	2849.0	2832.6	2827.2
25°	2876.3	2881.8	2899.5	2936.4	2974.6	2999.2	2977.3	2937.7	2892.7	2870.8	2864.0
27.5°	2948.6	2956.8	2975.9	3019.6	3051.0	3064.7	3049.7	3022.4	2989.6	2966.4	2960.9
30°	3051.0	3060.6	3089.3	3135.7	3156.1	3164.3	3157.5	3139.8	3116.6	3092.0	3086.5
32.5°	3188.9	3194.4	3227.1	3270.8	3289.9	3292.7	3284.5	3276.3	3238.1	3197.1	3194.4
35°	3343.2	3352.7	3392.3	3444.2	3461.9	3463.3	3446.9	3434.6	3389.6	3356.8	3356.8
37.5°	3547.9	3552.0	3590.2	3648.9	3668.1	3662.6	3654.4	3643.5	3595.7	3553.4	3554.8
40°	3788.2	3796.4	3829.1	3897.4	3897.4	3890.6	3896.0	3887.8	3840.1	3799.1	3800.5
42.5°	4073.5	4077.6	4117.2	4189.5	4184.1	4170.4	4175.9	4165.0	4134.9	4088.5	4072.1
45°	4377.9	4394.3	4462.6	4532.2	4521.3	4477.6	4499.4	4496.7	4469.4	4399.8	4403.9
47.5°	4745.1	4772.4	4838.0	4921.2	4908.9	4840.7	4865.3	4881.6	4843.4	4767.0	4753.3
50°	5158.8	5176.5	5273.4	5351.2	5340.3	5268.0	5323.9	5326.7	5231.1	5123.3	5123.3
52.5°	5599.7	5617.4	5748.5	5870.0	5876.8	5771.7	5816.8	5814.0	5658.4	5516.4	5489.1
55°	6093.9	6102.1	6271.3	6450.2	6488.4	6386.0	6391.5	6336.9	6134.8	5969.6	5954.6
57.5°	6604.4	6634.5	6821.5	7053.5	7166.8	7104.1	7075.4	6929.3	6734.1	6544.4	6534.8
60°	7169.6	7170.9	7413.9	7688.3	7917.7	7960.0	7842.6	7647.4	7394.8	7143.6	7132.7
62.5°	7561.4	7620.1	7927.2	8391.4	8802.3	9039.8	8729.9	8320.4	7823.5	7418.0	7377.1
65°	7641.9	7681.5	8149.7	8936.0	9775.6	10287.5	9570.8	8699.9	7852.1	7311.6	7284.2
67.5°	6990.7	7033.1	7663.7	8870.5	10458.1	11507.9	10116.9	8516.9	7366.2	6697.2	6644.0
70°	5407.2	5455.0	6234.5	7808.5	10306.6	11891.5	9727.8	7428.9	6074.8	5352.6	5255.7
72.5°	2874.9	3051.0	3717.2	5359.4	8365.4	10238.4	7976.4	5420.9	3917.9	3202.6	3074.2
75°	1049.8	1071.6	1442.9	2376.7	4866.6	7020.8	5053.7	2585.5	1486.6	1148.1	1089.4
77.5°	434.1	432.7	475.1	718.0	1767.8	3595.7	1972.6	759.0	473.7	438.2	432.7
80°	256.6	256.6	282.6	299.0	465.5	1085.3	520.1	338.5	283.9	259.4	263.5
82.5°	114.7	121.5	178.8	188.4	225.2	297.6	251.2	215.7	185.7	128.3	116.0
85°	62.8	54.6	94.2	98.3	107.8	110.6	118.8	117.4	107.8	62.8	64.2
87.5°	12.3	15.0	27.3	20.5	23.2	20.5	27.3	38.2	39.6	21.8	17.7
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)