

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: P454165

Luminaire Tested: **GALN-SA5B-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454165
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-SA5B-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27161 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

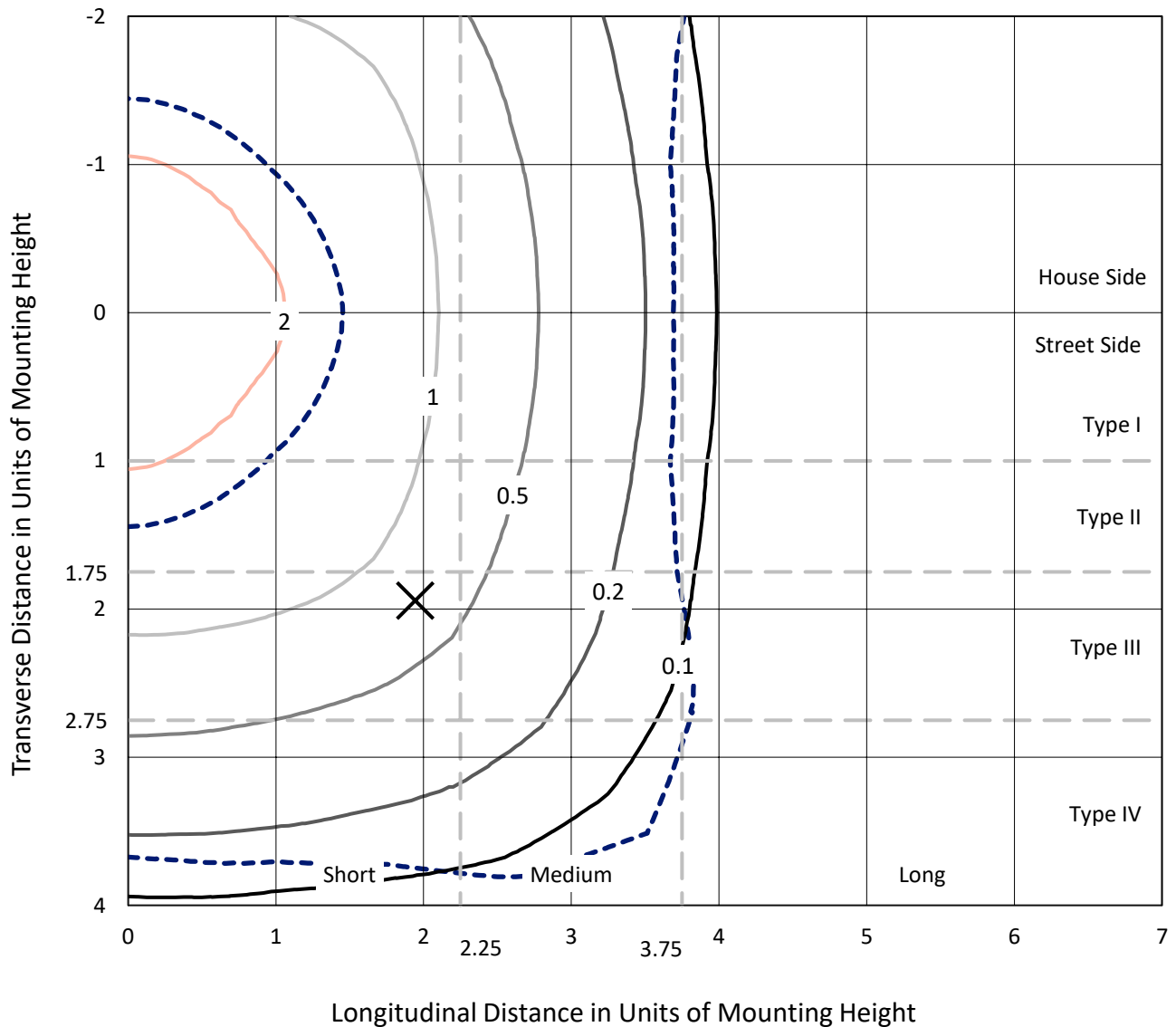
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

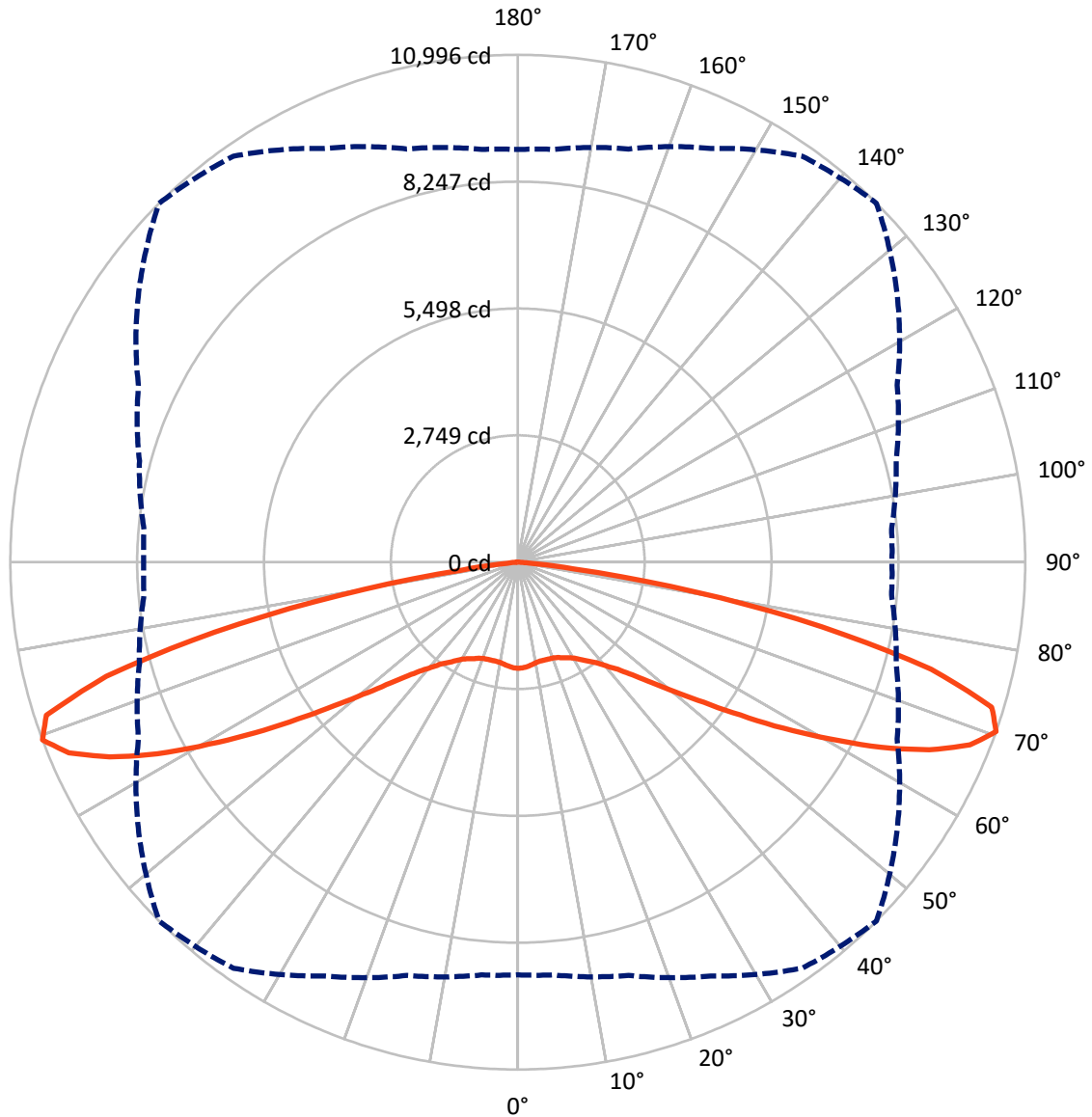
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	13580.5	0.0	13580.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13580.5	0.0	13580.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27161.0	0.0	27161.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	0.8
10°-20°	629.6	2.3
20°-30°	1072.6	3.9
30°-40°	1662.6	6.1
40°-50°	2798.3	10.3
50°-60°	5091.4	18.7
60°-70°	8619.7	31.7
70°-80°	6672.0	24.6
80°-90°	399.8	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°	27161.0	100.0
0°-180°	27161.0	100.0



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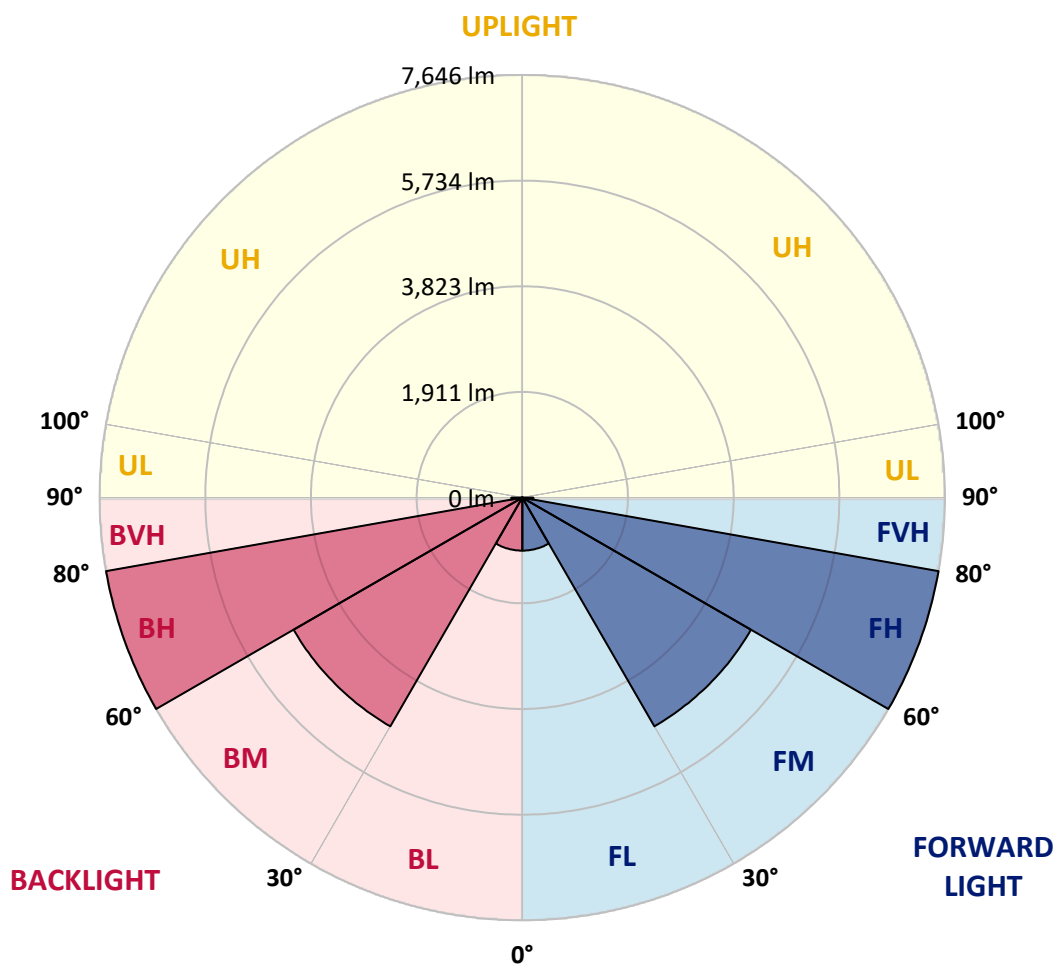
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	958.6	3.5			
FM (30°-60°)	4776.2	17.6			
FH (60°-80°)	7645.8	28.1			G4/12000
FVH (80°-90°)	199.9	0.7			G2/225
BL (0°-30°)	958.6	3.5	B2/1000		
BM (30°-60°)	4776.2	17.6	B3/5000		
BH (60°-80°)	7645.8	28.1	B5		G4/12000
BVH (80°-90°)	199.9	0.7			G2/225
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°	2299.5	2299.5	2299.5	2299.5	2299.5	2299.5	2299.5	2299.5	2299.5	2299.5	2299.5
2.5°	2293.8	2295.2	2295.2	2292.3	2290.9	2290.9	2289.5	2289.5	2293.8	2295.2	2296.6
5°	2273.7	2273.7	2273.7	2272.3	2269.4	2269.4	2266.5	2266.5	2268.0	2272.3	2269.4
7.5°	2246.4	2249.3	2249.3	2243.6	2239.3	2239.3	2237.8	2239.3	2240.7	2245.0	2243.6
10°	2237.8	2239.3	2232.1	2222.0	2214.9	2210.6	2212.0	2214.9	2222.0	2224.9	2226.4
12.5°	2243.6	2243.6	2230.7	2216.3	2203.4	2197.7	2196.2	2206.3	2219.2	2227.8	2230.7
15°	2250.7	2247.9	2232.1	2213.4	2200.5	2199.1	2197.7	2204.8	2223.5	2240.7	2242.1
17.5°	2255.0	2253.6	2233.5	2210.6	2203.4	2203.4	2202.0	2207.7	2227.8	2249.3	2250.7
20°	2269.4	2265.1	2242.1	2217.7	2212.0	2214.9	2210.6	2217.7	2239.3	2265.1	2270.8
22.5°	2298.1	2293.8	2270.8	2246.4	2243.6	2243.6	2242.1	2249.3	2272.3	2299.5	2303.8
25°	2332.5	2328.2	2306.7	2289.5	2292.3	2298.1	2295.2	2296.6	2315.3	2338.2	2345.4
27.5°	2378.4	2371.2	2352.6	2338.2	2346.8	2346.8	2346.8	2345.4	2356.9	2378.4	2385.6
30°	2434.4	2431.5	2411.4	2410.0	2417.1	2410.0	2410.0	2411.4	2412.8	2432.9	2440.1
32.5°	2507.5	2501.8	2491.7	2488.9	2508.9	2514.7	2494.6	2476.0	2486.0	2506.1	2510.4
35°	2628.0	2619.4	2605.1	2589.3	2605.1	2632.3	2589.3	2574.9	2600.8	2628.0	2630.9
37.5°	2791.5	2787.2	2764.3	2735.6	2734.2	2762.9	2718.4	2717.0	2765.7	2798.7	2803.0
40°	2996.7	3001.0	2972.3	2945.0	2930.7	2953.6	2919.2	2932.1	2979.5	3016.8	3013.9
42.5°	3285.0	3269.2	3224.8	3198.9	3183.2	3174.6	3166.0	3186.0	3239.1	3279.3	3310.8
45°	3622.1	3616.4	3560.4	3528.9	3494.5	3481.5	3478.7	3514.5	3579.1	3627.9	3632.2
47.5°	4003.7	3990.8	3954.9	3921.9	3909.0	3893.2	3878.9	3906.2	3970.7	4005.1	4015.2
50°	4396.8	4399.6	4399.6	4393.9	4406.8	4409.7	4370.9	4381.0	4416.8	4414.0	4411.1
52.5°	4845.8	4861.5	4936.1	4943.3	5005.0	5046.6	4976.3	4934.7	4921.8	4844.3	4850.1
55°	5373.7	5388.0	5499.9	5611.8	5778.2	5848.5	5700.7	5571.6	5479.8	5362.2	5367.9
57.5°	6032.1	6039.3	6145.4	6360.6	6624.5	6789.5	6529.9	6274.5	6088.0	5976.1	5931.7
60°	6740.7	6747.9	6902.8	7165.4	7575.6	7776.5	7455.1	7037.7	6802.4	6631.7	6643.2
62.5°	7591.4	7620.1	7759.2	8120.7	8618.5	8843.7	8417.7	7859.7	7541.2	7328.9	7337.5
65°	8502.3	8551.1	8703.1	9100.5	9559.5	9802.0	9279.8	8635.7	8239.8	7980.2	8007.4
67.5°	9093.3	9136.4	9355.8	9794.8	10367.2	10568.0	9893.8	9143.5	8648.6	8338.8	8281.4
70°	8942.7	8978.6	9271.2	9893.8	10741.6	10995.5	10040.1	9068.9	8486.5	8129.3	8106.4
72.5°	7894.1	7819.5	8247.0	9140.7	10314.1	10740.1	9579.6	8282.8	7549.8	7182.6	7139.5
75°	5231.6	5393.7	6024.9	7077.8	8726.1	9254.0	8176.7	6650.4	5728.0	5422.4	5375.1
77.5°	1748.7	1873.5	2434.4	4012.3	5948.9	6742.2	5957.5	4349.4	3077.0	2478.8	2490.3
80°	463.3	457.6	592.5	1103.1	2570.6	3904.7	2992.4	1473.2	806.2	583.8	553.7
82.5°	166.4	186.5	239.6	305.5	681.4	1213.6	856.4	413.1	302.7	223.8	216.6
85°	73.2	71.7	103.3	121.9	170.7	226.7	200.8	175.0	153.5	101.8	94.7
87.5°	15.8	15.8	24.4	18.6	30.1	30.1	37.3	44.5	45.9	30.1	24.4
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)