

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: P454861

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454861
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-SA6A-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25848 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

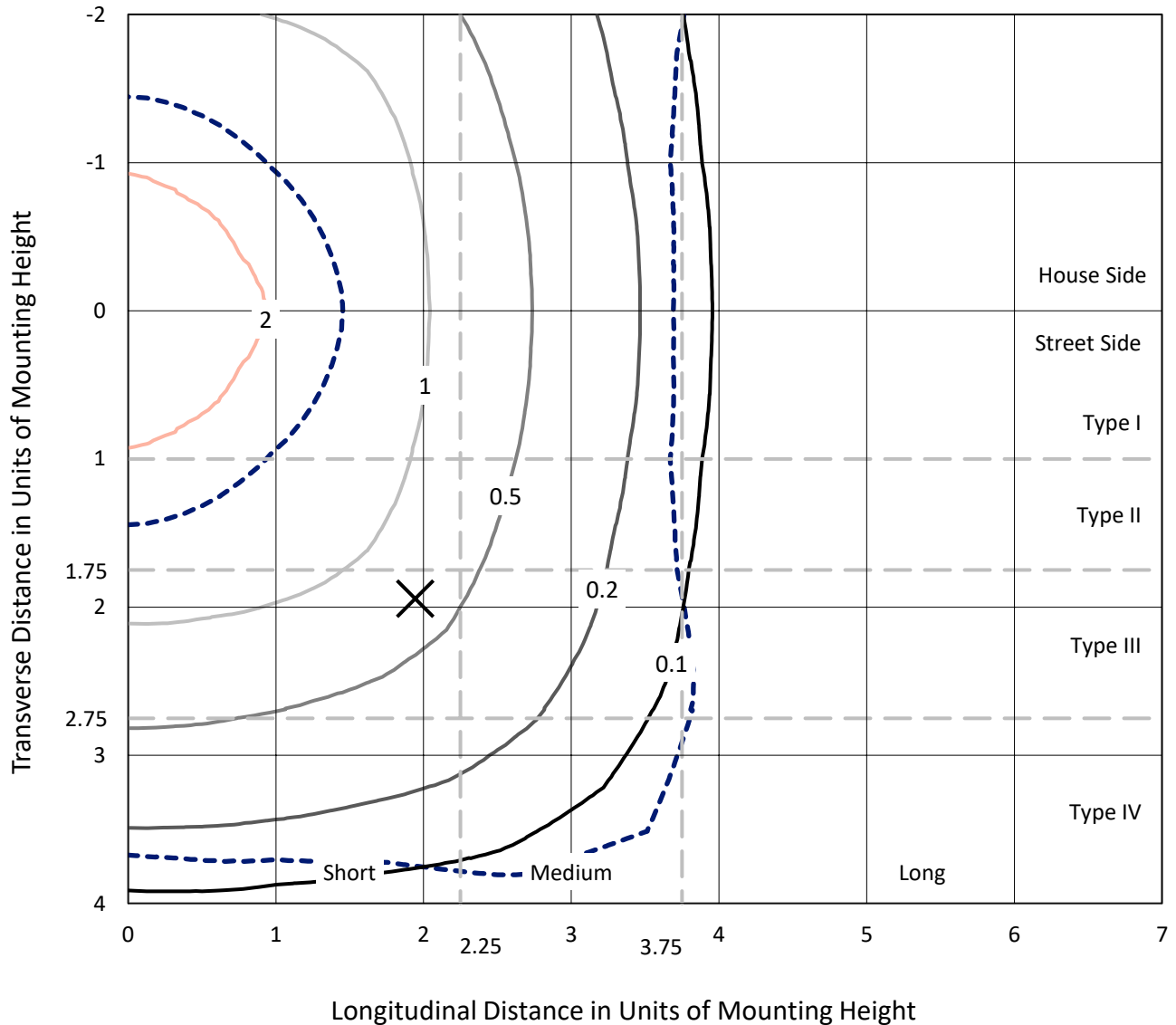
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

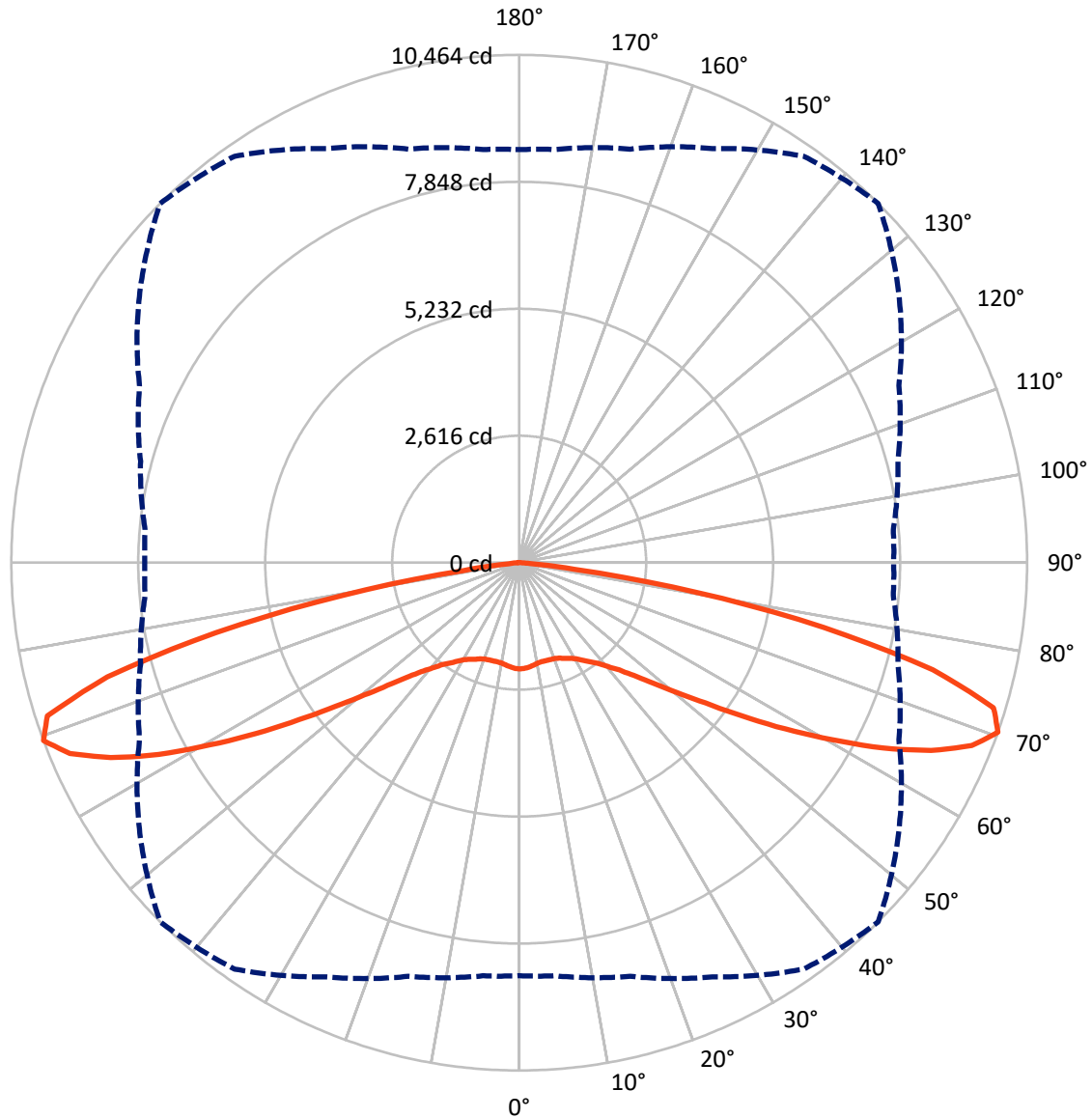
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	12924.0	0.0	12924.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12924.0	0.0	12924.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25848.0	0.0	25848.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	0.8
10°-20°	599.1	2.3
20°-30°	1020.8	3.9
30°-40°	1582.2	6.1
40°-50°	2663.1	10.3
50°-60°	4845.3	18.7
60°-70°	8203.0	31.7
70°-80°	6349.4	24.6
80°-90°	380.5	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°	25848.0	100.0
0°-180°	25848.0	100.0



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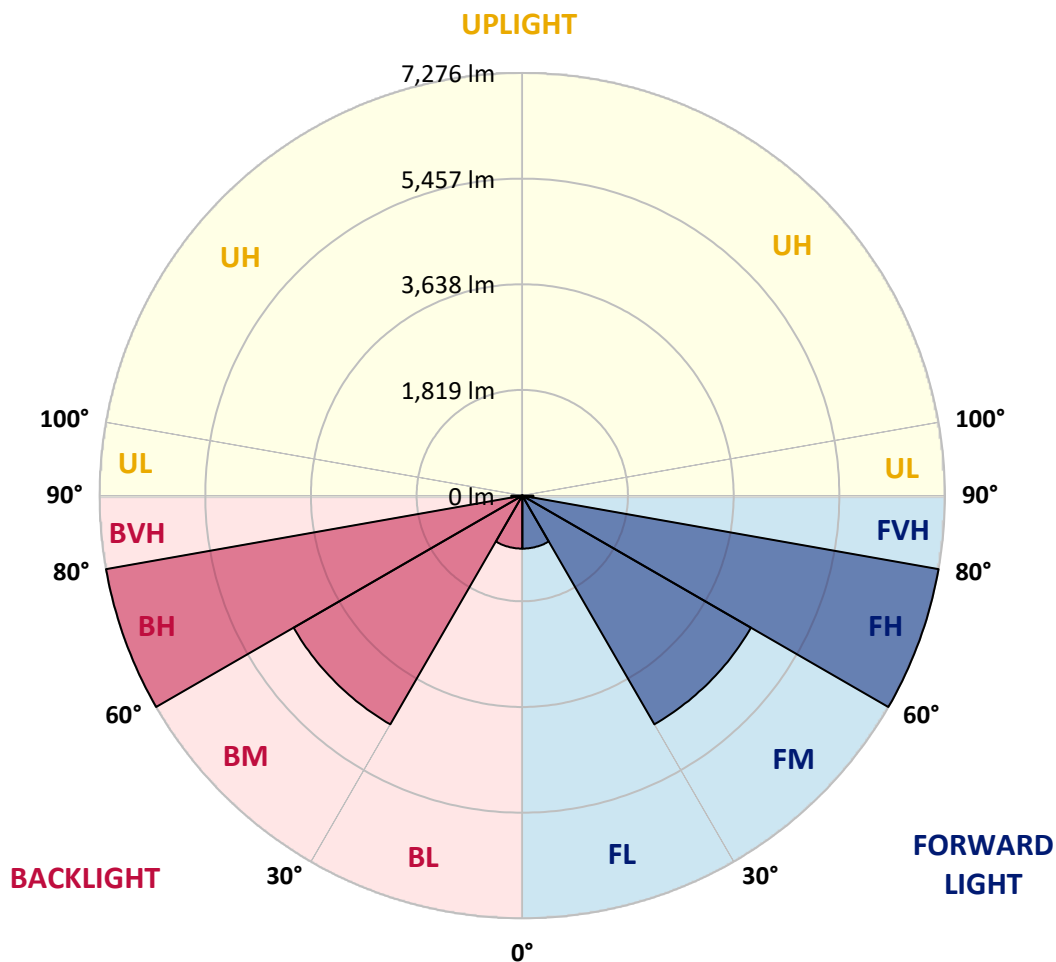
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.3	3.5			
FM (30°-60°)	4545.3	17.6			
FH (60°-80°)	7276.2	28.1			G3/7500
FVH (80°-90°)	190.2	0.7			G2/225
BL (0°-30°)	912.3	3.5	B2/1000		
BM (30°-60°)	4545.3	17.6	B3/5000		
BH (60°-80°)	7276.2	28.1	B5		G3/7500
BVH (80°-90°)	190.2	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3
2.5°	2182.9	2184.3	2184.3	2181.5	2180.2	2180.2	2178.8	2178.8	2182.9	2184.3	2185.6
5°	2163.8	2163.8	2163.8	2162.4	2159.7	2159.7	2157.0	2157.0	2158.3	2162.4	2159.7
7.5°	2137.8	2140.6	2140.6	2135.1	2131.0	2131.0	2129.6	2131.0	2132.4	2136.5	2135.1
10°	2129.6	2131.0	2124.2	2114.6	2107.8	2103.7	2105.1	2107.8	2114.6	2117.4	2118.7
12.5°	2135.1	2135.1	2122.8	2109.2	2096.9	2091.4	2090.1	2099.6	2111.9	2120.1	2122.8
15°	2141.9	2139.2	2124.2	2106.4	2094.2	2092.8	2091.4	2098.2	2116.0	2132.4	2133.7
17.5°	2146.0	2144.7	2125.6	2103.7	2096.9	2096.9	2095.5	2101.0	2120.1	2140.6	2141.9
20°	2159.7	2155.6	2133.7	2110.5	2105.1	2107.8	2103.7	2110.5	2131.0	2155.6	2161.0
22.5°	2187.0	2182.9	2161.0	2137.8	2135.1	2135.1	2133.7	2140.6	2162.4	2188.3	2192.4
25°	2219.7	2215.7	2195.2	2178.8	2181.5	2187.0	2184.3	2185.6	2203.4	2225.2	2232.0
27.5°	2263.4	2256.6	2238.9	2225.2	2233.4	2233.4	2233.4	2232.0	2243.0	2263.4	2270.3
30°	2316.7	2313.9	2294.8	2293.5	2300.3	2293.5	2293.5	2294.8	2296.2	2315.3	2322.1
32.5°	2386.3	2380.8	2371.3	2368.6	2387.7	2393.1	2374.0	2356.3	2365.8	2384.9	2389.0
35°	2501.0	2492.8	2479.1	2464.1	2479.1	2505.1	2464.1	2450.5	2475.0	2501.0	2503.7
37.5°	2656.6	2652.5	2630.7	2603.4	2602.0	2629.3	2587.0	2585.6	2632.0	2663.4	2667.5
40°	2851.8	2855.9	2828.6	2802.7	2789.0	2810.9	2778.1	2790.4	2835.4	2870.9	2868.2
42.5°	3126.2	3111.2	3068.9	3044.3	3029.3	3021.1	3012.9	3032.0	3082.5	3120.8	3150.8
45°	3447.0	3441.6	3388.3	3358.3	3325.5	3313.2	3310.5	3344.6	3406.1	3452.5	3456.6
47.5°	3810.2	3797.9	3763.7	3732.3	3720.1	3705.0	3691.4	3717.3	3778.8	3811.5	3821.1
50°	4184.2	4186.9	4186.9	4181.5	4193.8	4196.5	4159.6	4169.2	4203.3	4200.6	4197.9
52.5°	4611.5	4626.5	4697.5	4704.3	4763.0	4802.6	4735.7	4696.1	4683.9	4610.1	4615.6
55°	5113.9	5127.5	5234.0	5340.5	5498.9	5565.8	5425.1	5302.3	5214.9	5103.0	5108.4
57.5°	5740.5	5747.3	5848.3	6053.1	6304.3	6461.3	6214.2	5971.2	5793.7	5687.3	5644.9
60°	6414.9	6421.7	6569.1	6819.0	7209.4	7400.5	7094.7	6697.5	6473.6	6311.1	6322.1
62.5°	7224.4	7251.7	7384.1	7728.2	8201.9	8416.2	8010.8	7479.7	7176.6	6974.6	6982.8
65°	8091.3	8137.7	8282.4	8660.6	9097.4	9328.1	8831.2	8218.3	7841.5	7594.4	7620.3
67.5°	8653.7	8694.7	8903.6	9321.3	9866.0	10057.1	9415.5	8701.5	8230.5	7935.7	7881.1
70°	8510.4	8544.5	8823.0	9415.5	10222.3	10463.9	9554.7	8630.5	8076.3	7736.4	7714.5
72.5°	7512.5	7441.5	7848.3	8698.8	9815.5	10220.9	9116.5	7882.4	7184.8	6835.4	6794.4
75°	4978.7	5133.0	5733.7	6735.7	8304.3	8806.6	7781.4	6328.9	5451.1	5160.3	5115.3
77.5°	1664.1	1782.9	2316.7	3818.3	5661.3	6416.2	5669.5	4139.2	2928.3	2359.0	2369.9
80°	440.9	435.5	563.8	1049.8	2446.4	3716.0	2847.7	1402.0	767.2	555.6	527.0
82.5°	158.4	177.5	228.0	290.8	648.5	1154.9	815.0	393.2	288.0	213.0	206.1
85°	69.6	68.3	98.3	116.0	162.5	215.7	191.1	166.5	146.1	96.9	90.1
87.5°	15.0	15.0	23.2	17.7	28.7	28.7	35.5	42.3	43.7	28.7	23.2
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)