

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: P528873

Luminaire Tested: **GALN-SA4A-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-730-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11318 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

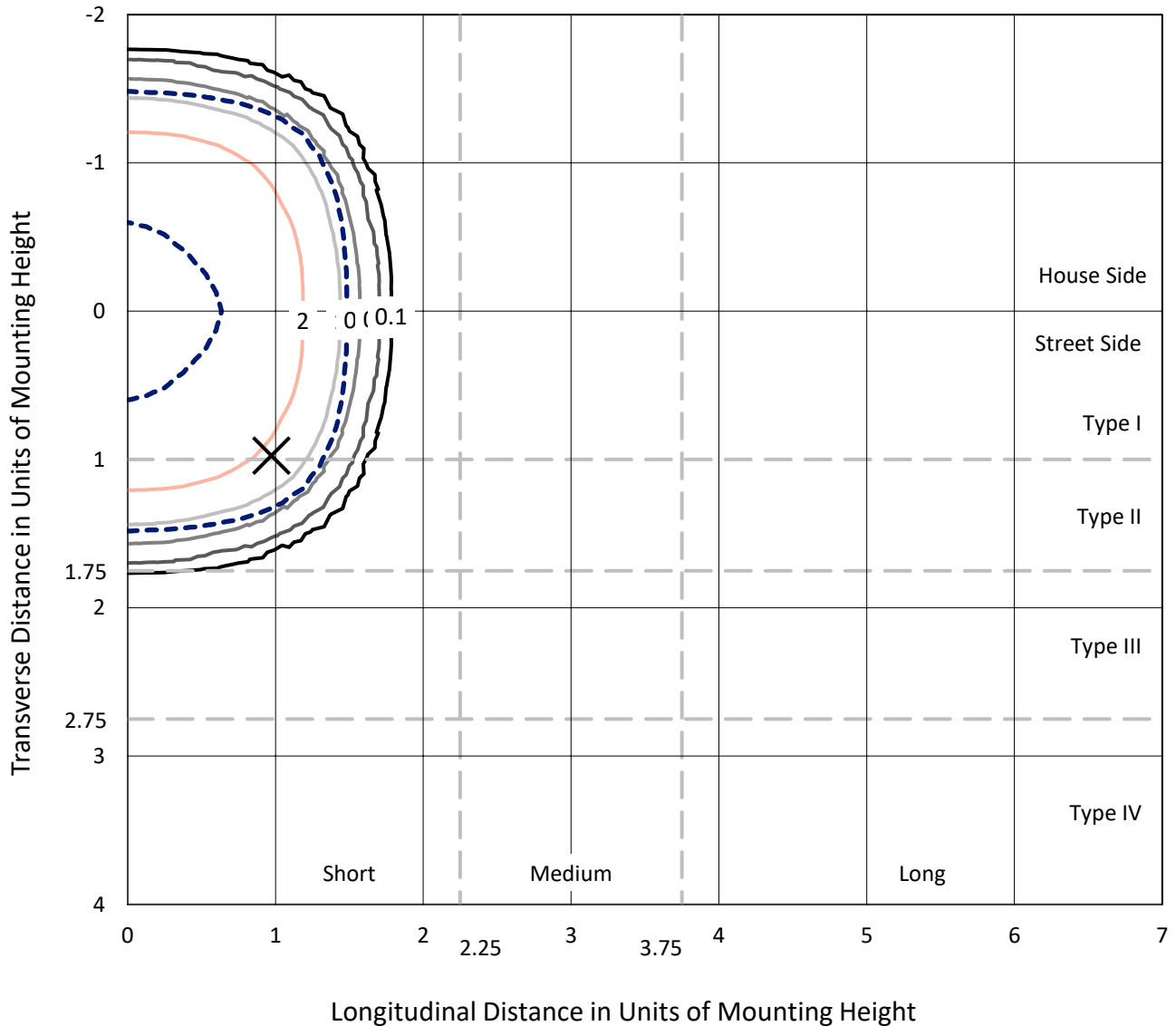
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

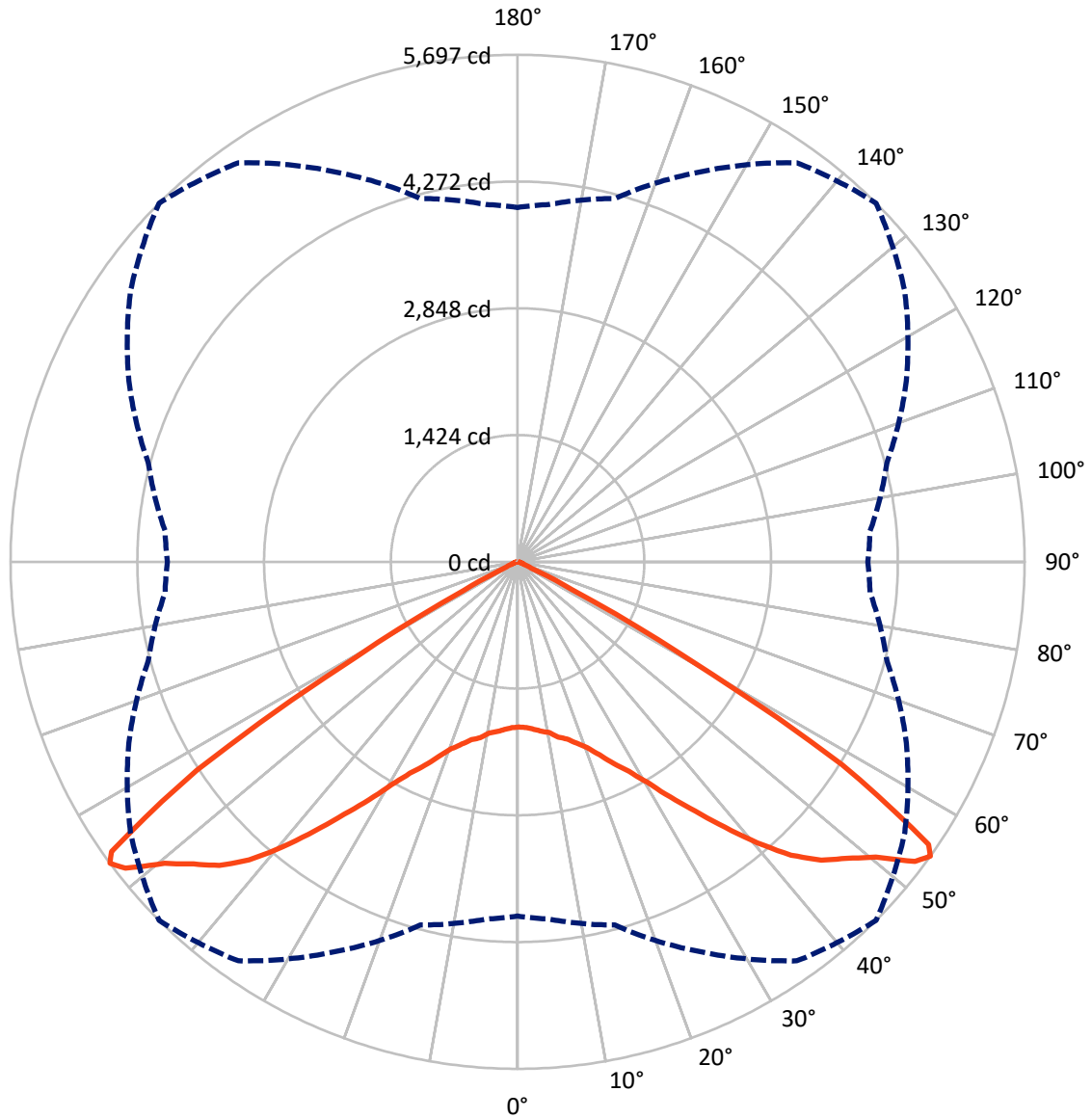
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5659.0	0.0	5659.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5659.0	0.0	5659.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11318.0	0.0	11318.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.6	1.6
10°-20°	588.2	5.2
20°-30°	1152.9	10.2
30°-40°	2073.1	18.3
40°-50°	3548.7	31.4
50°-60°	3433.7	30.3
60°-70°	293.9	2.6
70°-80°	34.8	0.3
80°-90°	10.9	0.1
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°	11318.0	100.0
0°-180°	11318.0	100.0

**Coefficient of Utilization**



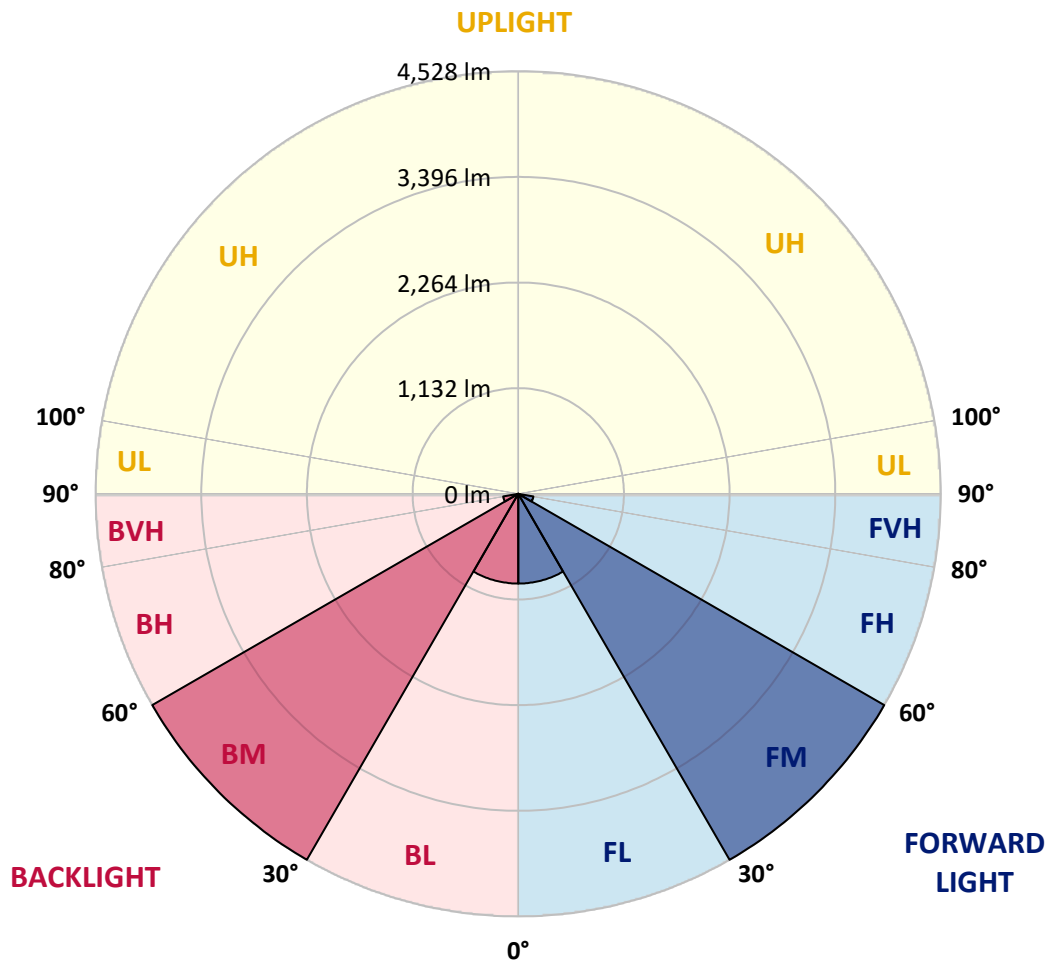
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	961.4	8.5			
FM (30°-60°)	4527.8	40.0			
FH (60°-80°)	164.4	1.5			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	961.4	8.5	B2/1000		
BM (30°-60°)	4527.8	40.0	B3/5000		
BH (60°-80°)	164.4	1.5	B1/500		G0/660
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8
2.5°	1864.8	1875.5	1868.4	1873.7	1873.7	1864.8	1870.1	1848.6	1863.0	1852.2	1854.0
5°	1893.5	1891.7	1891.7	1893.5	1886.3	1889.9	1882.7	1875.5	1870.1	1863.0	1884.5
7.5°	1929.3	1929.3	1916.8	1920.3	1916.8	1922.1	1907.8	1893.5	1888.1	1882.7	1879.1
10°	1963.4	1959.8	1954.4	1970.6	1958.0	1950.8	1943.7	1934.7	1915.0	1907.8	1900.6
12.5°	2013.6	2011.8	2004.6	2020.8	2013.6	2020.8	1993.9	1970.6	1967.0	1943.7	1956.2
15°	2072.8	2088.9	2076.3	2076.3	2072.8	2063.8	2053.0	2042.3	2010.0	2001.0	2002.8
17.5°	2149.9	2144.5	2146.3	2146.3	2164.2	2140.9	2119.4	2092.5	2076.3	2071.0	2053.0
20°	2223.4	2230.5	2228.8	2241.3	2252.1	2227.0	2203.6	2200.1	2155.2	2162.4	2137.3
22.5°	2352.5	2347.1	2356.1	2365.0	2357.9	2354.3	2332.7	2305.9	2266.4	2248.5	2244.9
25°	2488.7	2479.8	2463.6	2485.2	2495.9	2512.1	2470.8	2456.5	2395.5	2368.6	2370.4
27.5°	2605.3	2617.8	2635.8	2644.7	2671.6	2666.3	2637.6	2590.9	2544.3	2513.8	2494.1
30°	2764.9	2772.0	2802.5	2815.1	2861.7	2874.2	2829.4	2775.6	2693.2	2653.7	2630.4
32.5°	2911.9	2962.1	2960.3	3023.1	3098.4	3150.4	3069.7	2987.2	2904.7	2858.1	2816.9
35°	3150.4	3141.4	3193.4	3259.8	3381.7	3440.8	3353.0	3258.0	3132.4	3057.1	3024.9
37.5°	3372.7	3376.3	3446.2	3552.0	3691.9	3783.3	3706.2	3550.2	3421.1	3324.3	3279.5
40°	3695.5	3702.6	3774.4	3894.5	4052.3	4150.9	4061.2	3903.5	3731.3	3656.0	3656.0
42.5°	4073.8	4104.3	4150.9	4254.9	4396.5	4505.9	4425.2	4301.5	4127.6	4030.8	4045.1
45°	4462.9	4477.2	4507.7	4661.9	4728.3	4782.0	4706.7	4649.4	4532.8	4414.5	4394.7
47.5°	4826.9	4832.3	4921.9	4970.3	5022.3	4977.5	5025.9	4950.6	4819.7	4704.9	4681.6
50°	4988.2	4979.3	5106.6	5253.6	5293.1	5214.2	5172.9	5122.7	4923.7	4785.6	4724.7
52.5°	4518.5	4570.5	4807.1	5216.0	5524.4	5590.7	5350.4	5119.1	4748.0	4479.0	4437.8
54°	3980.6	4029.0	4224.4	4830.5	5472.4	5696.5	5309.2	4817.9	4294.3	3975.2	3933.9
55°	3448.0	3394.2	3749.3	4367.9	5228.5	5603.3	5146.0	4428.8	3829.9	3537.7	3480.3
57.5°	1866.6	1875.5	2175.0	2759.5	3673.9	4296.1	3794.1	2996.2	2262.8	1934.7	1906.0
60°	591.7	606.0	736.9	1115.3	1755.4	2096.1	1796.6	1203.1	832.0	667.0	640.1
62.5°	184.7	191.9	209.8	312.0	480.5	686.7	537.9	322.7	240.3	220.5	224.1
65°	113.0	113.0	114.8	121.9	143.4	166.8	161.4	141.7	136.3	132.7	130.9
67.5°	73.5	71.7	75.3	80.7	84.3	86.1	91.4	96.8	95.0	91.4	91.4
70°	44.8	43.0	46.6	53.8	55.6	59.2	64.5	71.7	69.9	66.3	68.1
72.5°	25.1	25.1	26.9	32.3	37.7	41.2	46.6	52.0	53.8	52.0	52.0
75°	9.0	10.8	14.3	19.7	23.3	28.7	34.1	39.4	44.8	41.2	39.4
77.5°	3.6	3.6	7.2	12.6	17.9	23.3	32.3	37.7	41.2	37.7	34.1
80°	1.8	1.8	5.4	10.8	16.1	21.5	26.9	32.3	34.1	30.5	26.9
82.5°	1.8	1.8	5.4	10.8	16.1	19.7	28.7	32.3	35.9	32.3	26.9
85°	0.0	1.8	5.4	10.8	14.3	16.1	16.1	10.8	9.0	5.4	5.4
87.5°	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)