

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: P458717

Luminaire Tested: **GALN-SA2D-735-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15124 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

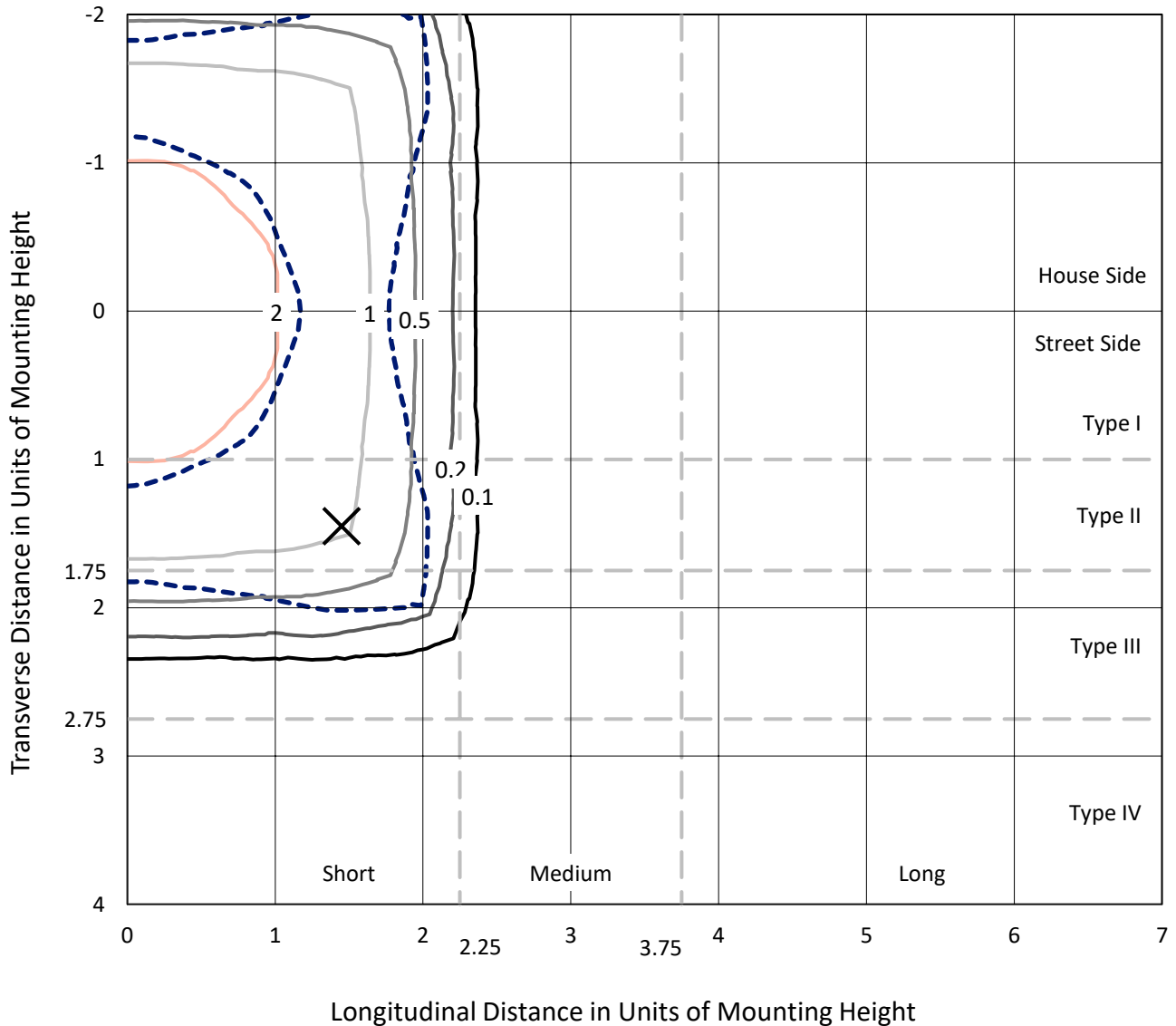
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

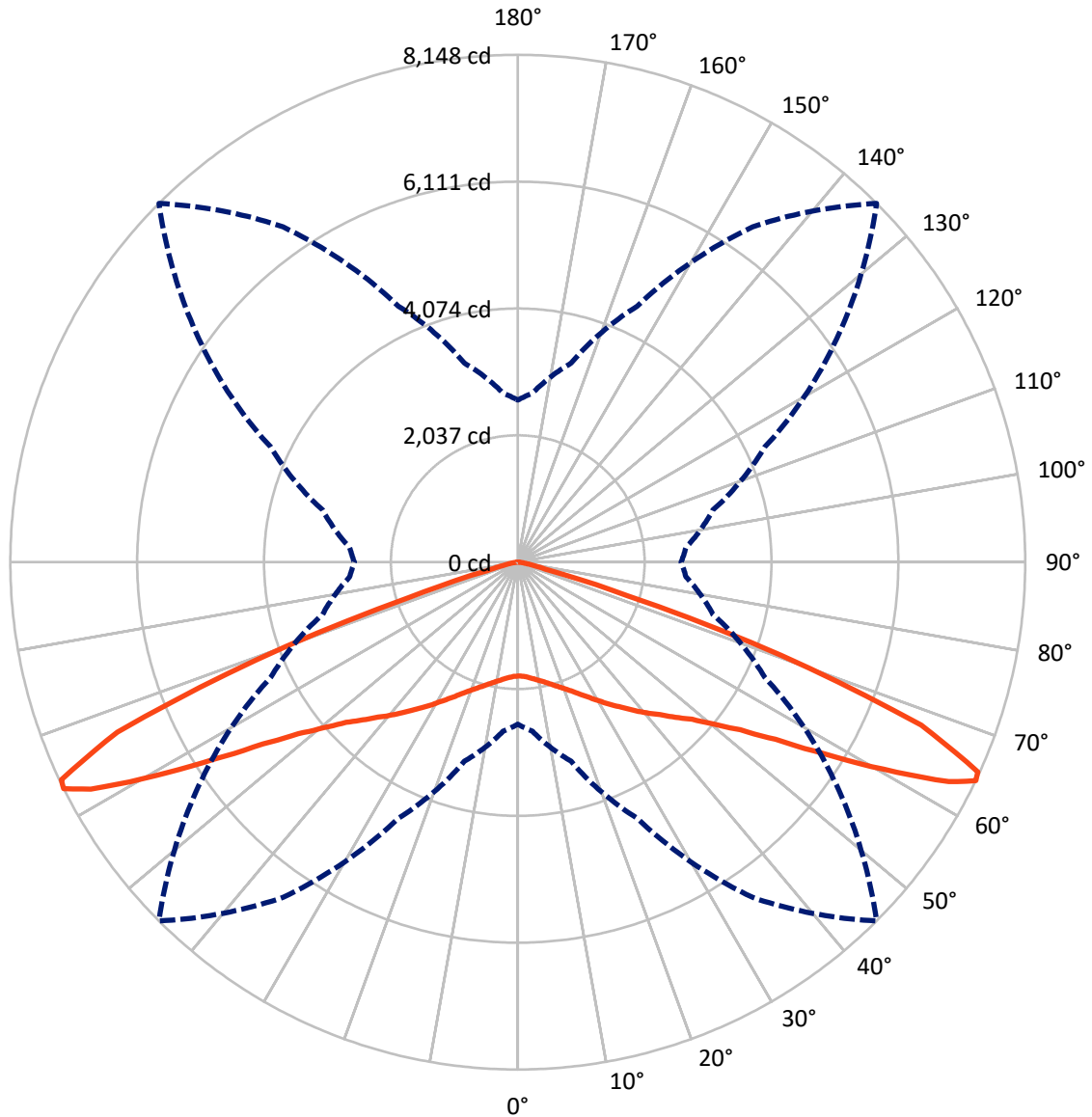
✕ Max cd  
 - - - 1/2 Max cd



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 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7562.0	0.0	7562.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7562.0	0.0	7562.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15124.0	0.0	15124.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.6	1.2
10°-20°	579.3	3.8
20°-30°	1094.7	7.2
30°-40°	1812.9	12.0
40°-50°	2830.3	18.7
50°-60°	4375.5	28.9
60°-70°	3772.9	24.9
70°-80°	427.6	2.8
80°-90°	51.2	0.3
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°	15124.0	100.0
0°-180°	15124.0	100.0

**Coefficient of Utilization**



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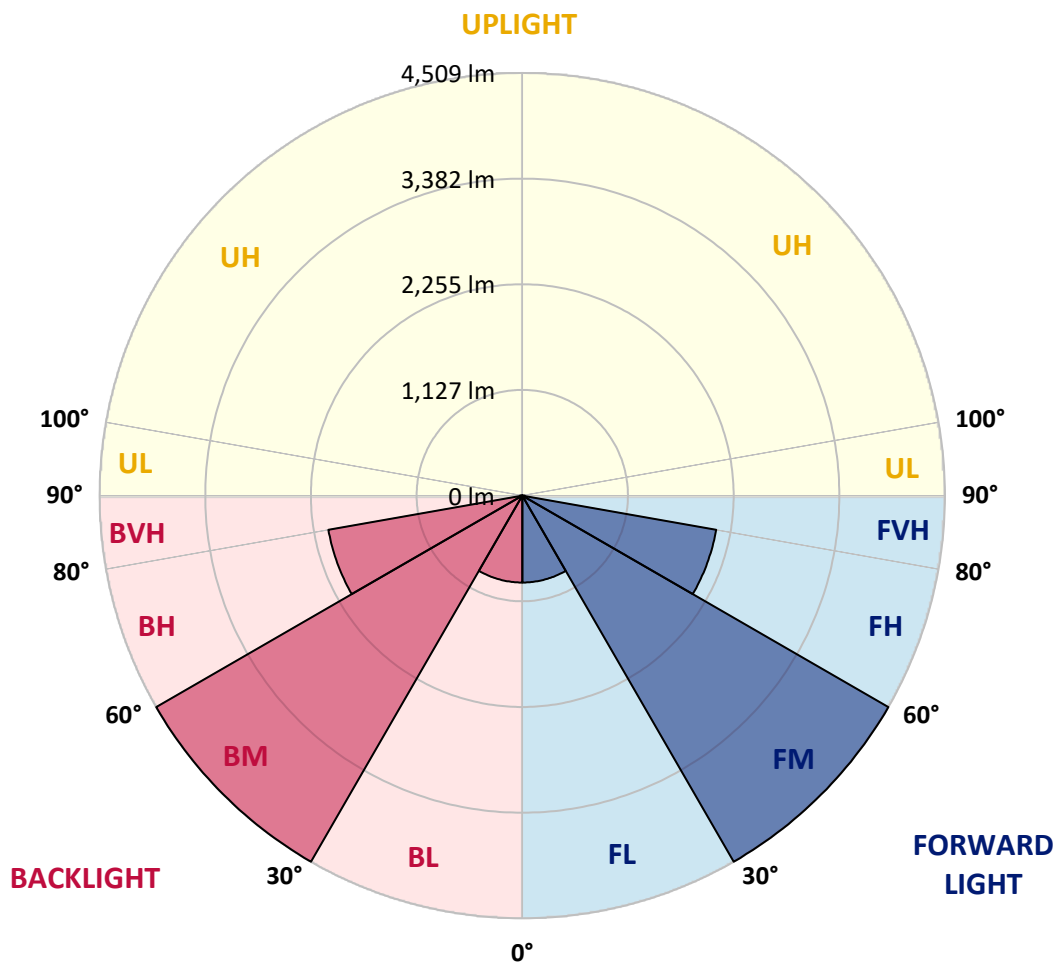
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.8	6.1			
FM (30°-60°)	4509.3	29.8			
FH (60°-80°)	2100.3	13.9			G2/5000
FVH (80°-90°)	25.6	0.2			G1/100
BL (0°-30°)	926.8	6.1	B2/1000		
BM (30°-60°)	4509.3	29.8	B3/5000		
BH (60°-80°)	2100.3	13.9	B3/2500		G2/5000
BVH (80°-90°)	25.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0	1828.0
2.5°	1835.2	1839.2	1836.0	1835.2	1834.4	1834.4	1834.4	1835.2	1838.4	1840.8	1839.2
5°	1858.4	1861.6	1860.0	1859.2	1858.4	1859.2	1857.6	1856.8	1859.2	1859.2	1858.4
7.5°	1887.3	1891.3	1889.7	1891.3	1892.1	1892.9	1888.9	1885.7	1884.9	1887.3	1885.7
10°	1926.5	1929.7	1930.5	1931.3	1932.9	1932.1	1927.3	1921.7	1920.9	1920.1	1919.3
12.5°	1970.6	1973.0	1973.8	1977.0	1979.4	1980.2	1974.6	1969.8	1961.8	1963.4	1960.2
15°	2020.2	2025.0	2024.2	2029.1	2035.5	2037.1	2031.5	2023.4	2016.2	2012.2	2009.8
17.5°	2081.1	2084.3	2082.7	2087.5	2095.5	2099.5	2094.7	2084.3	2077.1	2068.3	2063.5
20°	2153.2	2158.8	2160.4	2160.4	2167.6	2171.6	2164.4	2161.2	2150.0	2143.6	2139.6
22.5°	2234.9	2237.3	2242.1	2246.9	2254.1	2252.5	2250.1	2245.3	2234.9	2229.3	2222.9
25°	2327.0	2329.4	2341.5	2351.9	2354.3	2352.7	2349.5	2347.1	2337.5	2324.6	2319.8
27.5°	2434.4	2439.2	2455.2	2464.8	2464.8	2465.6	2459.2	2467.2	2446.4	2431.2	2429.6
30°	2569.0	2572.2	2585.8	2595.4	2590.6	2586.6	2585.0	2593.0	2570.6	2543.3	2536.9
32.5°	2701.9	2713.1	2725.2	2746.0	2729.2	2722.0	2720.4	2726.0	2700.3	2669.9	2661.1
35°	2844.5	2852.5	2875.0	2892.6	2877.4	2860.5	2867.7	2885.4	2854.9	2814.1	2812.5
37.5°	3002.3	3009.5	3038.4	3056.8	3045.6	3016.7	3028.8	3049.6	3019.1	2968.7	2958.3
40°	3166.5	3181.8	3217.8	3237.0	3218.6	3180.2	3202.6	3225.0	3197.8	3139.3	3116.1
42.5°	3350.8	3374.8	3426.9	3436.5	3401.2	3349.2	3388.4	3424.5	3405.3	3338.0	3329.2
45°	3566.3	3580.7	3644.8	3665.6	3616.7	3551.8	3600.7	3666.4	3652.0	3574.3	3557.5
47.5°	3807.4	3821.0	3887.5	3918.7	3857.0	3769.7	3857.8	3943.6	3934.7	3851.4	3843.4
50°	4092.6	4095.8	4187.9	4223.1	4161.4	4086.1	4164.6	4271.2	4235.9	4129.4	4127.8
52.5°	4405.0	4409.0	4525.1	4593.2	4558.8	4473.8	4566.8	4631.7	4541.9	4402.6	4392.1
55°	4675.7	4695.7	4854.3	5035.4	5082.6	5021.0	5049.0	5018.6	4797.5	4602.0	4571.6
57.5°	4786.3	4825.5	5066.6	5404.7	5712.3	5803.6	5587.3	5297.3	4899.2	4622.8	4593.2
60°	4516.3	4558.8	4932.8	5574.5	6359.5	6756.0	6148.0	5344.6	4667.7	4279.2	4232.7
62.5°	3616.7	3628.7	4179.1	5174.8	6736.8	7763.7	6384.3	4941.7	3994.0	3466.1	3447.7
64°	2602.6	2726.0	3309.1	4537.1	6571.8	8147.5	6248.2	4376.9	3244.2	2709.9	2623.4
65°	1946.5	1980.2	2667.5	3874.7	6281.0	8118.6	5983.8	3837.0	2686.7	2073.9	1977.8
67.5°	735.4	739.4	984.5	1931.3	4471.4	6985.1	4566.8	2087.5	1131.9	818.7	789.0
70°	305.2	310.8	361.3	649.6	1921.7	4485.1	2202.1	753.0	414.1	335.6	330.8
72.5°	223.5	226.7	241.9	288.4	591.2	1841.6	724.1	319.6	242.7	217.1	214.7
75°	175.4	177.0	188.2	212.3	275.6	510.3	301.2	219.5	185.0	166.6	165.0
77.5°	133.8	137.8	145.8	161.8	185.0	241.9	199.5	164.2	142.6	127.4	125.0
80°	92.1	96.9	112.1	118.6	124.2	157.0	136.2	124.2	111.3	92.9	87.3
82.5°	56.9	60.1	75.3	80.9	78.5	88.1	87.3	88.9	79.3	57.7	53.7
85°	29.6	31.2	40.9	42.5	39.3	36.0	44.9	52.1	48.9	32.8	32.0
87.5°	6.4	7.2	8.8	8.0	8.8	8.8	11.2	16.8	17.6	11.2	10.4
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)