

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: P451844

Luminaire Tested: **GALN-SA2D-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451844
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-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 14786 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

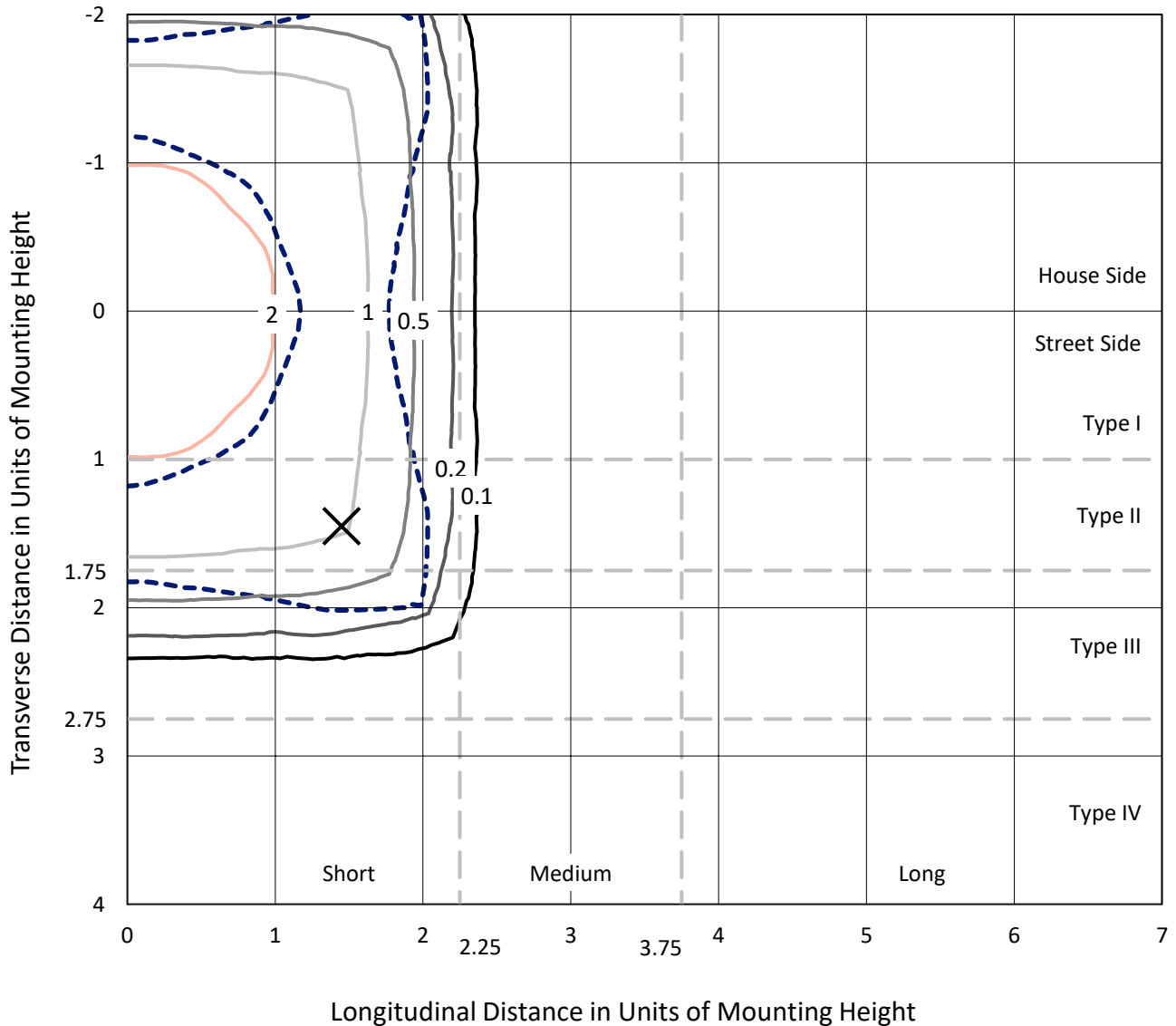
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

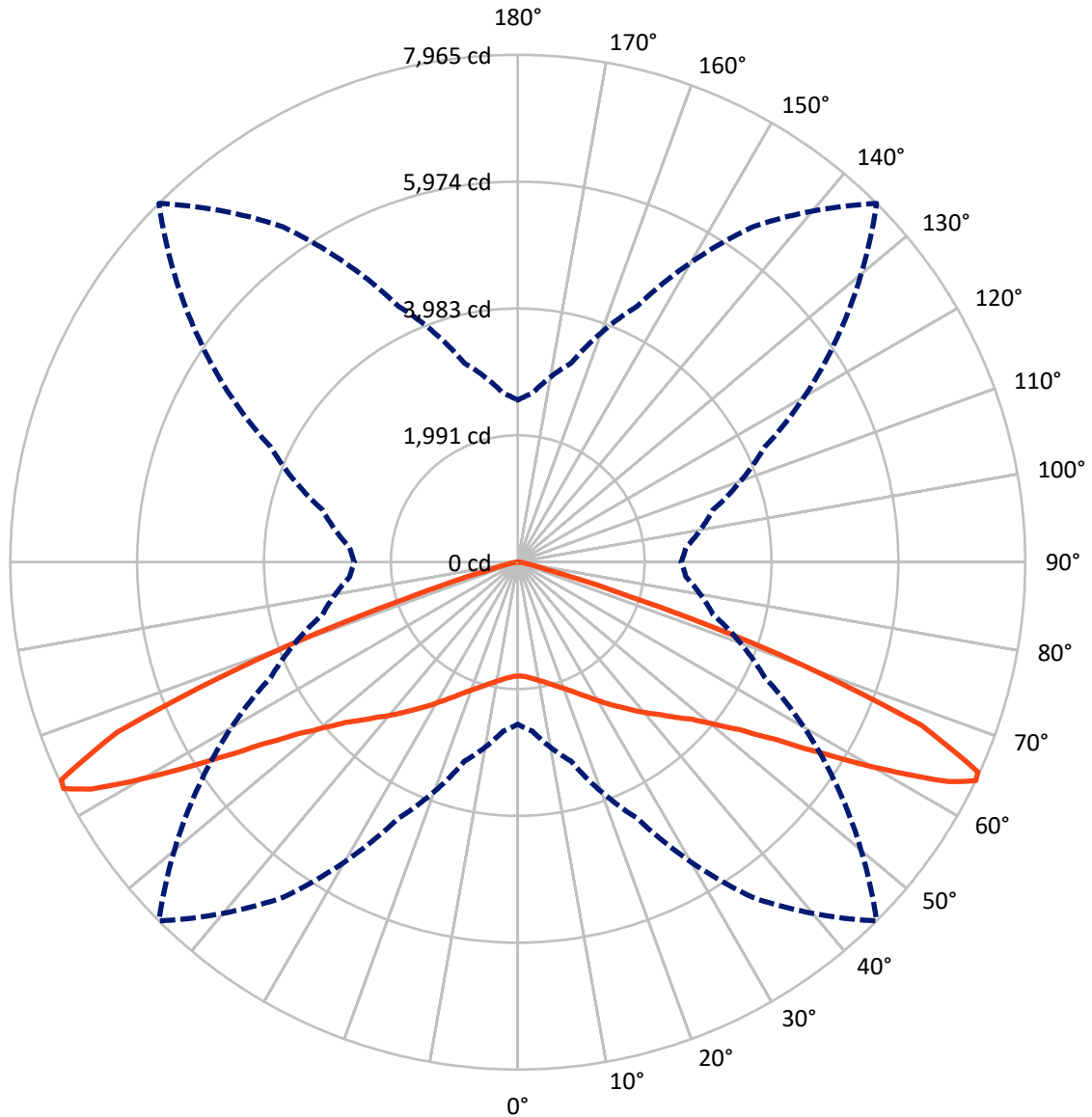
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

REPORT NUMBER: P451844
CATALOG NUMBER: GALN-SA2D-730-U-5NQ

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
House Side	Lumens	7393.0	0.0	7393.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7393.0	0.0	7393.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14786.0	0.0	14786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	1.2
10°-20°	566.3	3.8
20°-30°	1070.2	7.2
30°-40°	1772.4	12.0
40°-50°	2767.0	18.7
50°-60°	4277.7	28.9
60°-70°	3688.6	24.9
70°-80°	418.0	2.8
80°-90°	50.1	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°	14786.0	100.0
0°-180°	14786.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451844

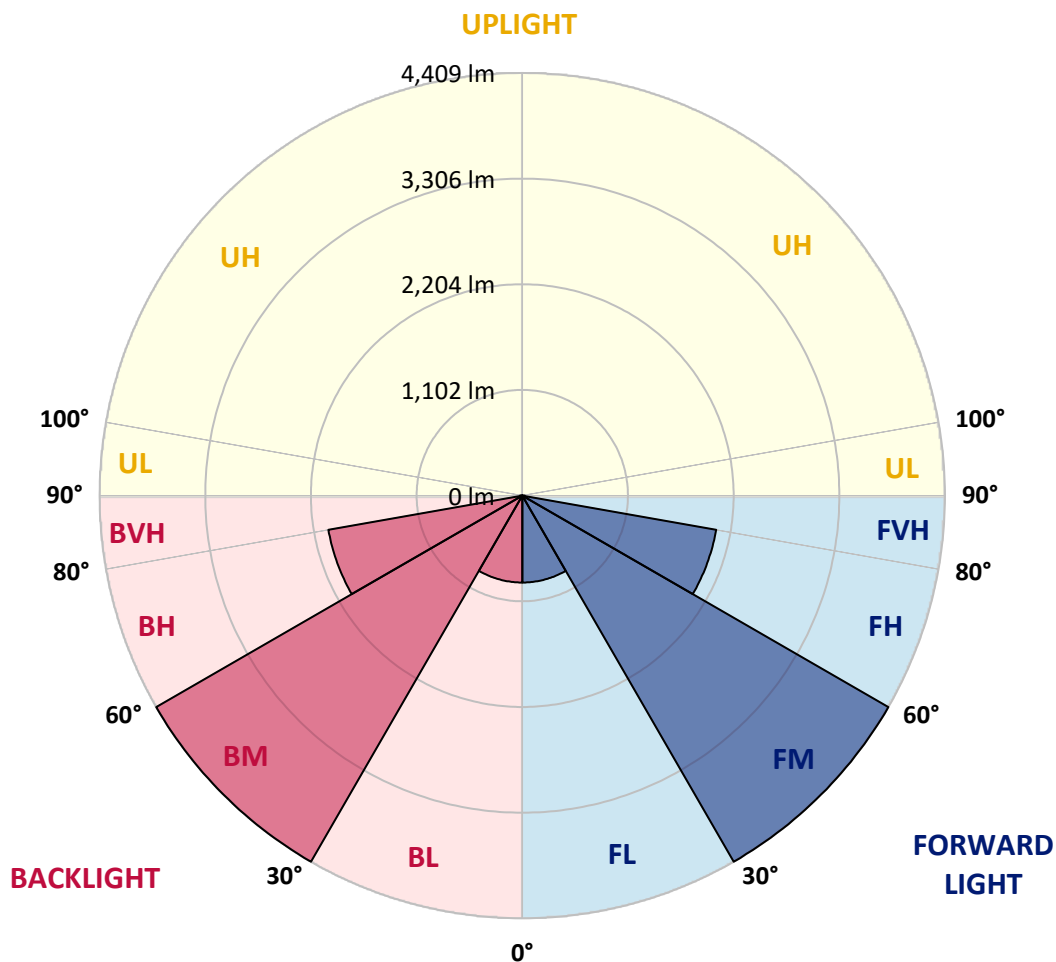
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	906.1	6.1			
FM	(30°-60°)	4408.6	29.8			
FH	(60°-80°)	2053.3	13.9			G2/5000
FVH	(80°-90°)	25.0	0.2			G1/100
BL	(0°-30°)	906.1	6.1	B2/1000		
BM	(30°-60°)	4408.6	29.8	B3/5000		
BH	(60°-80°)	2053.3	13.9	B3/2500		G2/5000
BVH	(80°-90°)	25.0	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°	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1
2.5°	1794.2	1798.1	1795.0	1794.2	1793.4	1793.4	1793.4	1794.2	1797.3	1799.7	1798.1
5°	1816.9	1820.0	1818.5	1817.7	1816.9	1816.9	1816.1	1815.3	1817.7	1817.7	1816.9
7.5°	1845.1	1849.0	1847.4	1849.0	1849.8	1850.6	1846.7	1843.5	1842.7	1845.1	1843.5
10°	1883.5	1886.6	1887.4	1888.2	1889.7	1888.9	1884.2	1878.8	1878.0	1877.2	1876.4
12.5°	1926.5	1928.9	1929.7	1932.8	1935.2	1935.9	1930.5	1925.8	1917.9	1919.5	1916.4
15°	1975.1	1979.8	1979.0	1983.7	1990.0	1991.5	1986.1	1978.2	1971.2	1967.3	1964.9
17.5°	2034.6	2037.7	2036.2	2040.9	2048.7	2052.6	2047.9	2037.7	2030.7	2022.1	2017.4
20°	2105.1	2110.6	2112.1	2112.1	2119.2	2123.1	2116.1	2112.9	2102.0	2095.7	2091.8
22.5°	2185.0	2187.3	2192.0	2196.7	2203.8	2202.2	2199.9	2195.2	2185.0	2179.5	2173.2
25°	2275.0	2277.4	2289.1	2299.3	2301.7	2300.1	2297.0	2294.6	2285.2	2272.7	2268.0
27.5°	2380.0	2384.7	2400.3	2409.7	2409.7	2410.5	2404.3	2412.1	2391.7	2376.8	2375.3
30°	2511.5	2514.7	2528.0	2537.4	2532.7	2528.8	2527.2	2535.0	2513.1	2486.5	2480.2
32.5°	2641.5	2652.5	2664.3	2684.6	2668.2	2661.1	2659.6	2665.0	2640.0	2610.2	2601.6
35°	2780.9	2788.8	2810.7	2827.9	2813.1	2796.6	2803.7	2820.9	2791.1	2751.2	2749.6
37.5°	2935.2	2942.3	2970.5	2988.5	2977.5	2949.3	2961.1	2981.4	2951.7	2902.3	2892.2
40°	3095.8	3110.7	3145.9	3164.7	3146.7	3109.1	3131.0	3152.9	3126.3	3069.1	3046.4
42.5°	3275.9	3299.4	3350.3	3359.7	3325.2	3274.3	3312.7	3347.9	3329.1	3263.4	3254.8
45°	3486.6	3500.7	3563.3	3583.7	3535.9	3472.5	3520.2	3584.5	3570.4	3494.4	3477.9
47.5°	3722.3	3735.6	3800.6	3831.1	3770.8	3685.5	3771.6	3855.4	3846.8	3765.4	3757.5
50°	4001.1	4004.2	4094.3	4128.7	4068.4	3994.8	4071.6	4175.7	4141.3	4037.1	4035.5
52.5°	4306.5	4310.4	4424.0	4490.6	4456.9	4373.9	4464.7	4528.1	4440.4	4304.2	4294.0
55°	4571.2	4590.8	4745.9	4922.8	4969.1	4908.8	4936.2	4906.4	4690.3	4499.2	4469.4
57.5°	4679.3	4717.7	4953.4	5283.9	5584.6	5673.9	5462.4	5178.9	4789.7	4519.5	4490.6
60°	4415.4	4456.9	4822.6	5449.9	6217.4	6605.0	6010.6	5225.1	4563.4	4183.6	4138.1
62.5°	3535.9	3547.6	4085.7	5059.1	6586.2	7590.2	6241.7	4831.2	3904.8	3388.7	3370.7
64°	2544.4	2665.0	3235.2	4435.7	6424.9	7965.4	6108.5	4279.1	3171.7	2649.4	2564.8
65°	1903.0	1935.9	2607.9	3788.1	6140.6	7937.2	5850.1	3751.3	2626.7	2027.6	1933.6
67.5°	718.9	722.8	962.5	1888.2	4371.5	6829.0	4464.7	2040.9	1106.6	800.4	771.4
70°	298.4	303.9	353.2	635.1	1878.8	4384.8	2152.9	736.2	404.9	328.1	323.4
72.5°	218.5	221.6	236.5	281.9	578.0	1800.5	708.0	312.5	237.3	212.2	209.9
75°	171.5	173.1	184.0	207.5	269.4	498.9	294.5	214.6	180.9	162.9	161.3
77.5°	130.8	134.7	142.5	158.2	180.9	236.5	195.0	160.5	139.4	124.5	122.2
80°	90.1	94.8	109.6	115.9	121.4	153.5	133.1	121.4	108.9	90.8	85.4
82.5°	55.6	58.7	73.6	79.1	76.7	86.1	85.4	86.9	77.5	56.4	52.5
85°	29.0	30.5	39.9	41.5	38.4	35.2	43.9	50.9	47.8	32.1	31.3
87.5°	6.3	7.0	8.6	7.8	8.6	8.6	11.0	16.4	17.2	11.0	10.2
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)