

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: P451872

Luminaire Tested: **GALN-SA2D-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16316 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

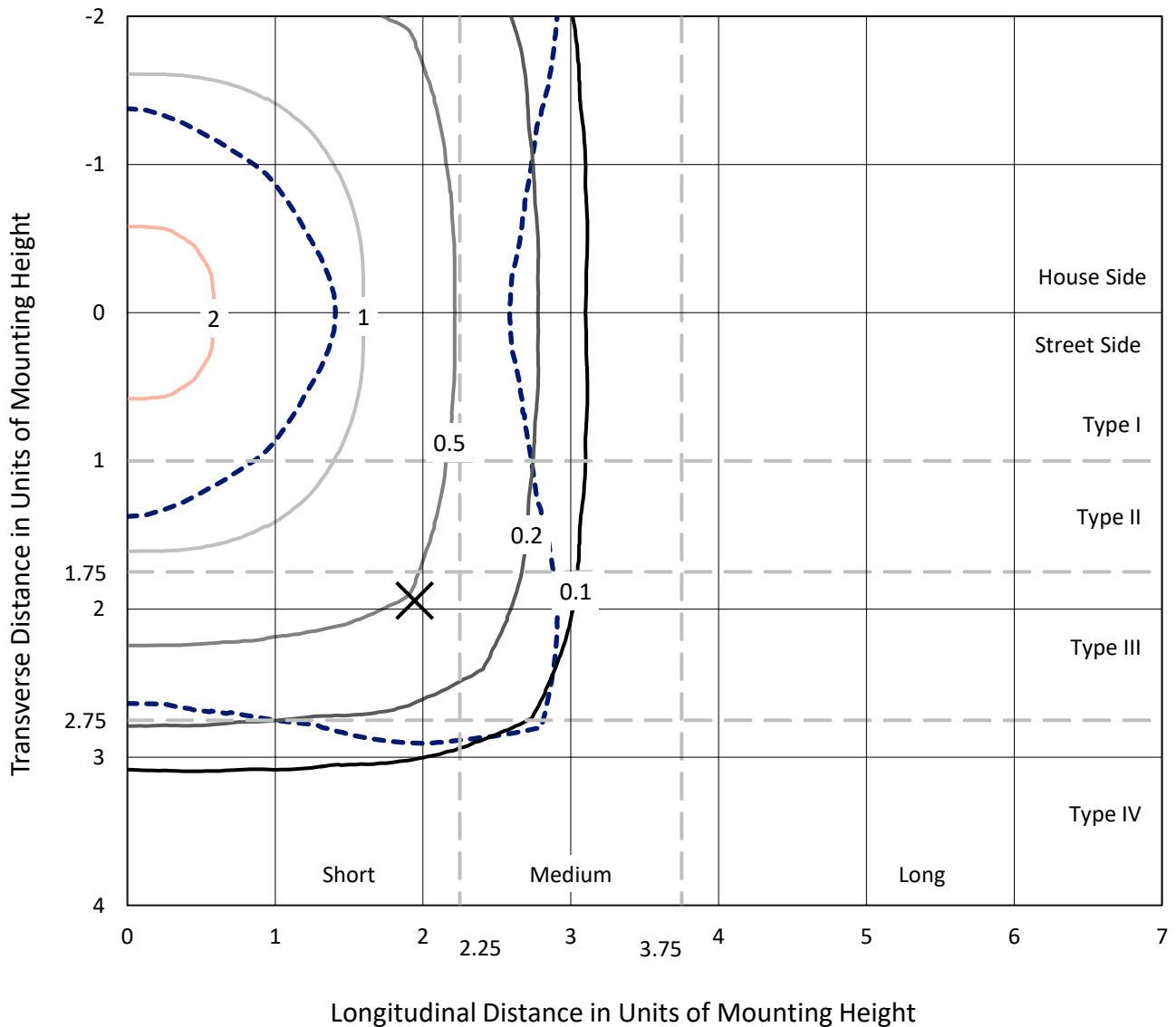
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

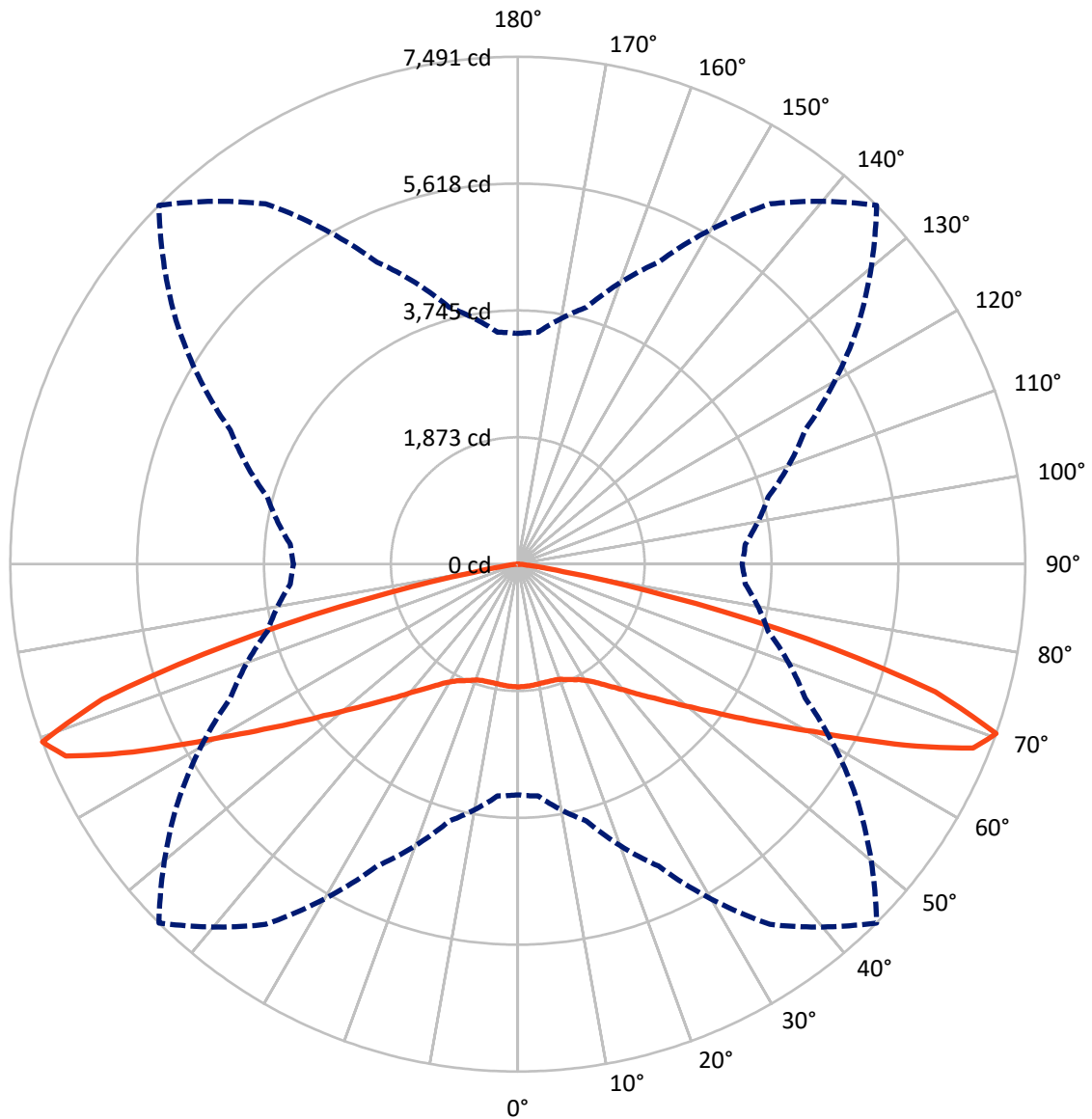
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	8158.0	0.0	8158.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8158.0	0.0	8158.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16316.0	0.0	16316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	1.1
10°-20°	504.2	3.1
20°-30°	862.3	5.3
30°-40°	1368.6	8.4
40°-50°	2208.0	13.5
50°-60°	3592.4	22.0
60°-70°	5207.7	31.9
70°-80°	2310.0	14.2
80°-90°	91.1	0.6
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°	16316.0	100.0
0°-180°	16316.0	100.0

Coefficient of Utilization



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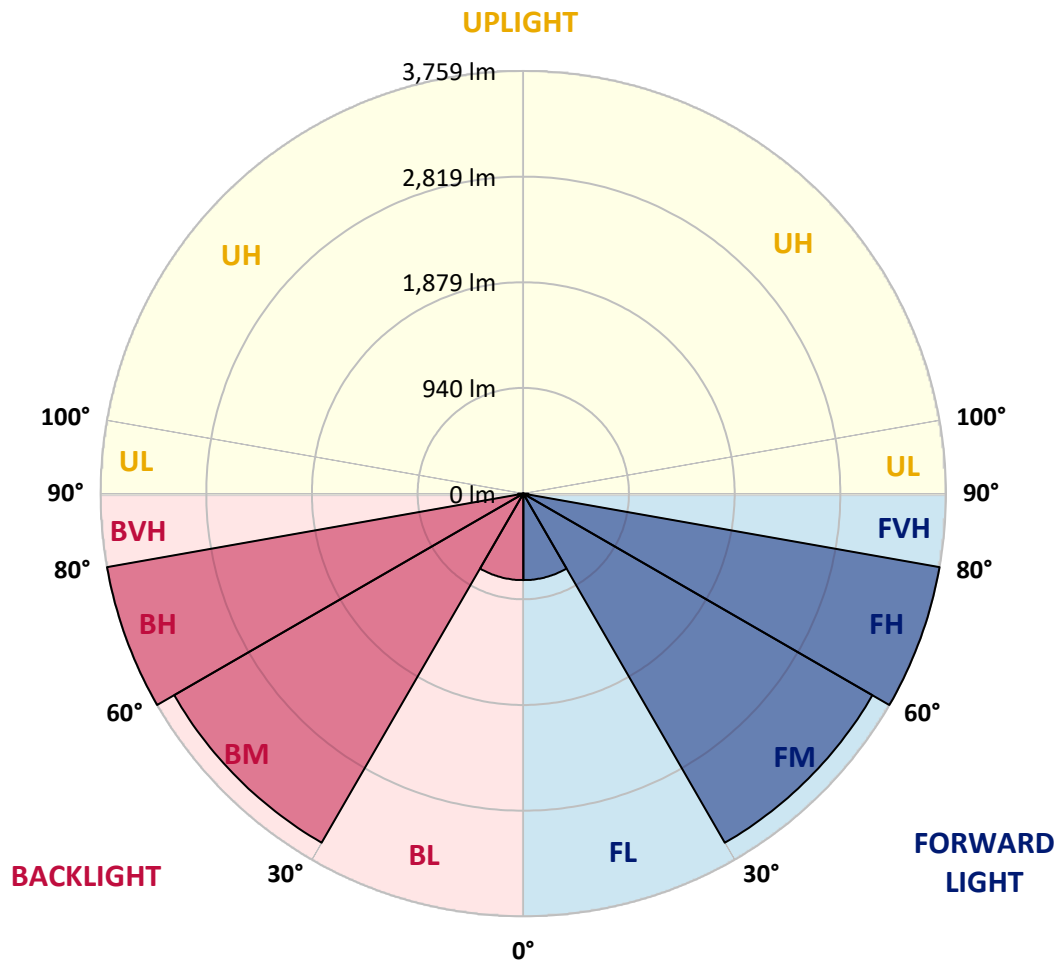
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	769.1	4.7			
FM (30°-60°)	3584.5	22.0			
FH (60°-80°)	3758.8	23.0			G2/5000
FVH (80°-90°)	45.6	0.3			G1/100
BL (0°-30°)	769.1	4.7	B2/1000		
BM (30°-60°)	3584.5	22.0	B3/5000		
BH (60°-80°)	3758.8	23.0	B4/5000		G2/5000
BVH (80°-90°)	45.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8
2.5°	1811.8	1813.5	1811.0	1809.2	1808.4	1808.4	1807.5	1808.4	1813.5	1814.4	1811.8
5°	1806.7	1808.4	1807.5	1805.8	1804.9	1804.9	1804.1	1803.2	1807.5	1809.2	1808.4
7.5°	1799.8	1800.6	1799.8	1798.9	1799.8	1798.9	1796.3	1794.6	1798.1	1798.1	1797.2
10°	1787.7	1789.5	1788.6	1789.5	1791.2	1791.2	1787.7	1784.3	1785.2	1783.4	1783.4
12.5°	1773.1	1775.7	1776.6	1780.0	1784.3	1789.5	1781.7	1774.0	1772.3	1771.4	1770.5
15°	1763.7	1766.2	1769.7	1773.1	1780.9	1792.0	1780.9	1768.8	1765.4	1761.9	1760.2
17.5°	1761.1	1764.5	1769.7	1774.8	1785.2	1796.3	1786.9	1774.8	1766.2	1761.1	1759.4
20°	1768.0	1770.5	1778.3	1787.7	1802.4	1813.5	1804.1	1791.2	1778.3	1770.5	1768.0
22.5°	1781.7	1786.0	1795.5	1812.7	1833.3	1849.7	1836.8	1815.3	1794.6	1784.3	1780.9
25°	1811.8	1815.3	1826.4	1849.7	1873.7	1889.2	1875.4	1850.5	1822.1	1808.4	1804.1
27.5°	1857.4	1862.5	1874.6	1902.1	1921.9	1930.5	1921.0	1903.8	1883.2	1868.6	1865.1
30°	1921.9	1927.9	1946.0	1975.2	1988.1	1993.3	1989.0	1977.8	1963.2	1947.7	1944.2
32.5°	2008.7	2012.2	2032.8	2060.3	2072.4	2074.1	2068.9	2063.8	2039.7	2013.9	2012.2
35°	2105.9	2111.9	2136.9	2169.5	2180.7	2181.6	2171.3	2163.5	2135.1	2114.5	2114.5
37.5°	2234.9	2237.5	2261.5	2298.5	2310.6	2307.1	2302.0	2295.1	2265.0	2238.3	2239.2
40°	2386.2	2391.4	2412.0	2455.0	2455.0	2450.7	2454.2	2449.0	2418.9	2393.1	2394.0
42.5°	2565.9	2568.5	2593.5	2639.0	2635.6	2627.0	2630.4	2623.6	2604.6	2575.4	2565.1
45°	2757.7	2768.0	2811.0	2854.9	2848.0	2820.5	2834.2	2832.5	2815.3	2771.5	2774.0
47.5°	2989.0	3006.2	3047.5	3099.9	3092.2	3049.2	3064.7	3075.0	3050.9	3002.8	2994.2
50°	3249.6	3260.8	3321.8	3370.8	3363.9	3318.4	3353.6	3355.3	3295.1	3227.2	3227.2
52.5°	3527.3	3538.5	3621.1	3697.6	3701.9	3635.7	3664.0	3662.3	3564.3	3474.9	3457.7
55°	3838.6	3843.8	3950.4	4063.0	4087.1	4022.6	4026.1	3991.7	3864.4	3760.4	3750.9
57.5°	4160.2	4179.1	4296.9	4443.1	4514.5	4474.9	4456.9	4364.9	4241.9	4122.4	4116.4
60°	4516.2	4517.1	4670.1	4843.0	4987.4	5014.1	4940.1	4817.2	4658.1	4499.9	4493.0
62.5°	4763.0	4800.0	4993.5	5285.8	5544.7	5694.3	5499.1	5241.1	4928.1	4672.7	4646.9
65°	4813.7	4838.7	5133.6	5628.9	6157.8	6480.2	6028.8	5480.2	4946.2	4605.6	4588.4
67.5°	4403.6	4430.2	4827.5	5587.6	6587.7	7249.0	6372.7	5364.9	4640.0	4218.7	4185.1
70°	3406.1	3436.2	3927.2	4918.6	6492.3	7490.6	6127.7	4679.6	3826.6	3371.7	3310.6
72.5°	1811.0	1921.9	2341.5	3376.0	5269.5	6449.3	5024.4	3414.7	2467.9	2017.3	1936.5
75°	661.3	675.0	908.9	1497.1	3065.6	4422.5	3183.4	1628.7	936.4	723.2	686.2
77.5°	273.4	272.6	299.2	452.3	1113.6	2265.0	1242.6	478.1	298.4	276.0	272.6
80°	161.7	161.7	178.0	188.3	293.2	683.6	327.6	213.3	178.9	163.4	166.0
82.5°	72.2	76.5	112.6	118.7	141.9	187.5	158.2	135.9	116.9	80.8	73.1
85°	39.6	34.4	59.3	61.9	67.9	69.7	74.8	74.0	67.9	39.6	40.4
87.5°	7.7	9.5	17.2	12.9	14.6	12.9	17.2	24.1	24.9	13.8	11.2
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)