

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: P451843

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451843
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-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 14859 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

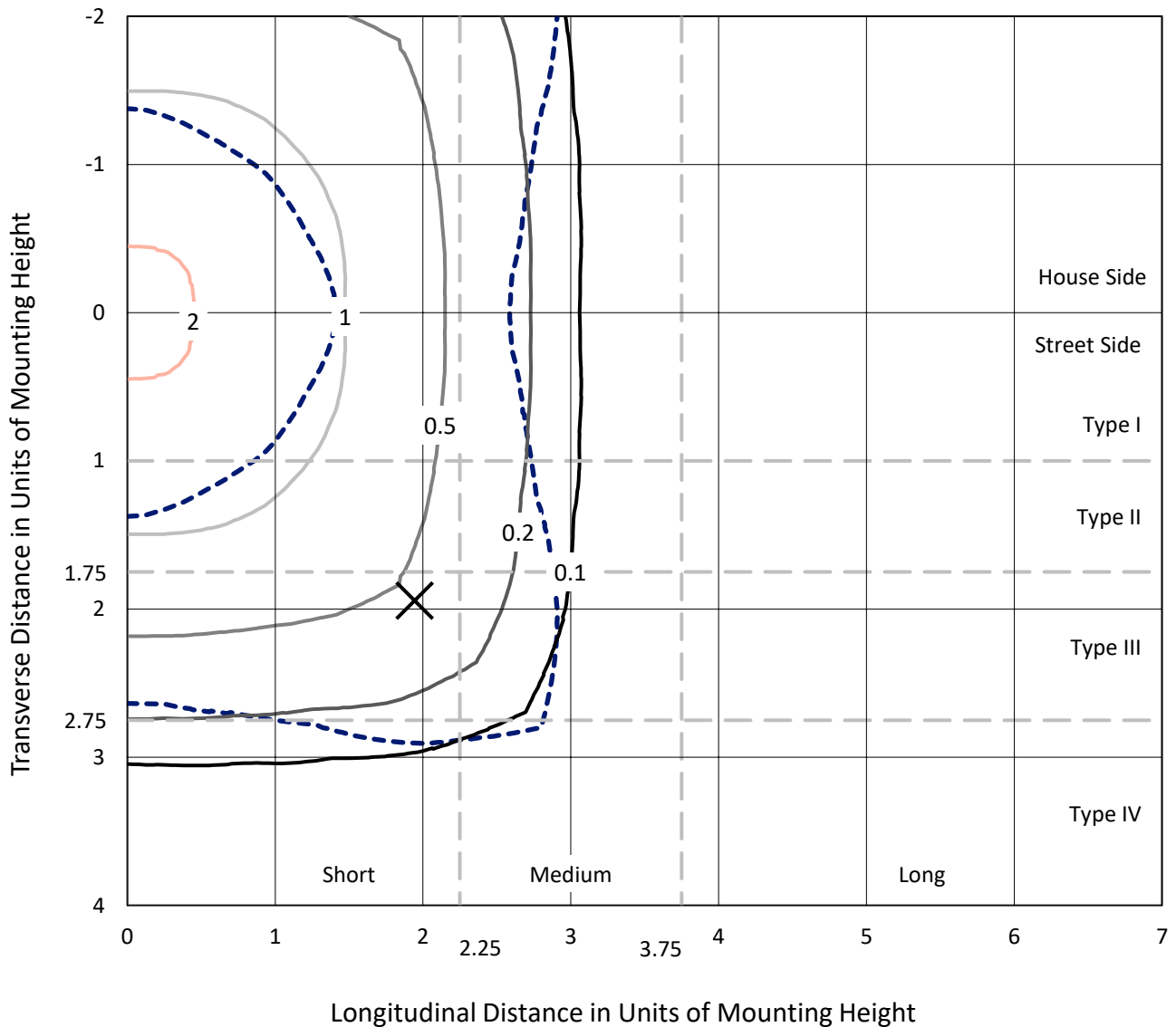
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

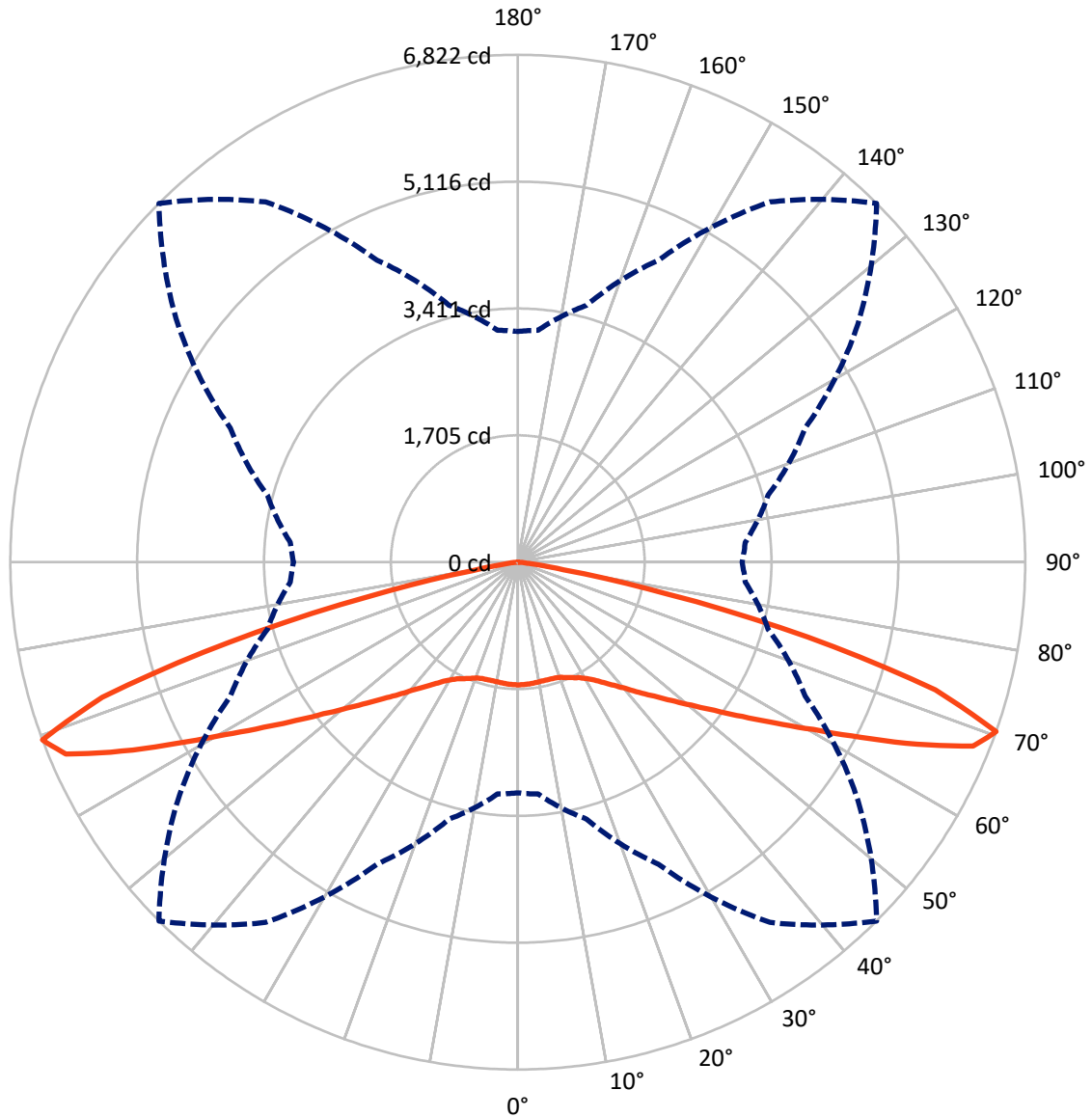
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	7429.5	0.0	7429.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7429.5	0.0	7429.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14859.0	0.0	14859.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	1.1
10°-20°	459.1	3.1
20°-30°	785.3	5.3
30°-40°	1246.4	8.4
40°-50°	2010.8	13.5
50°-60°	3271.6	22.0
60°-70°	4742.6	31.9
70°-80°	2103.7	14.2
80°-90°	83.0	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°	14859.0	100.0
0°-180°	14859.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451843

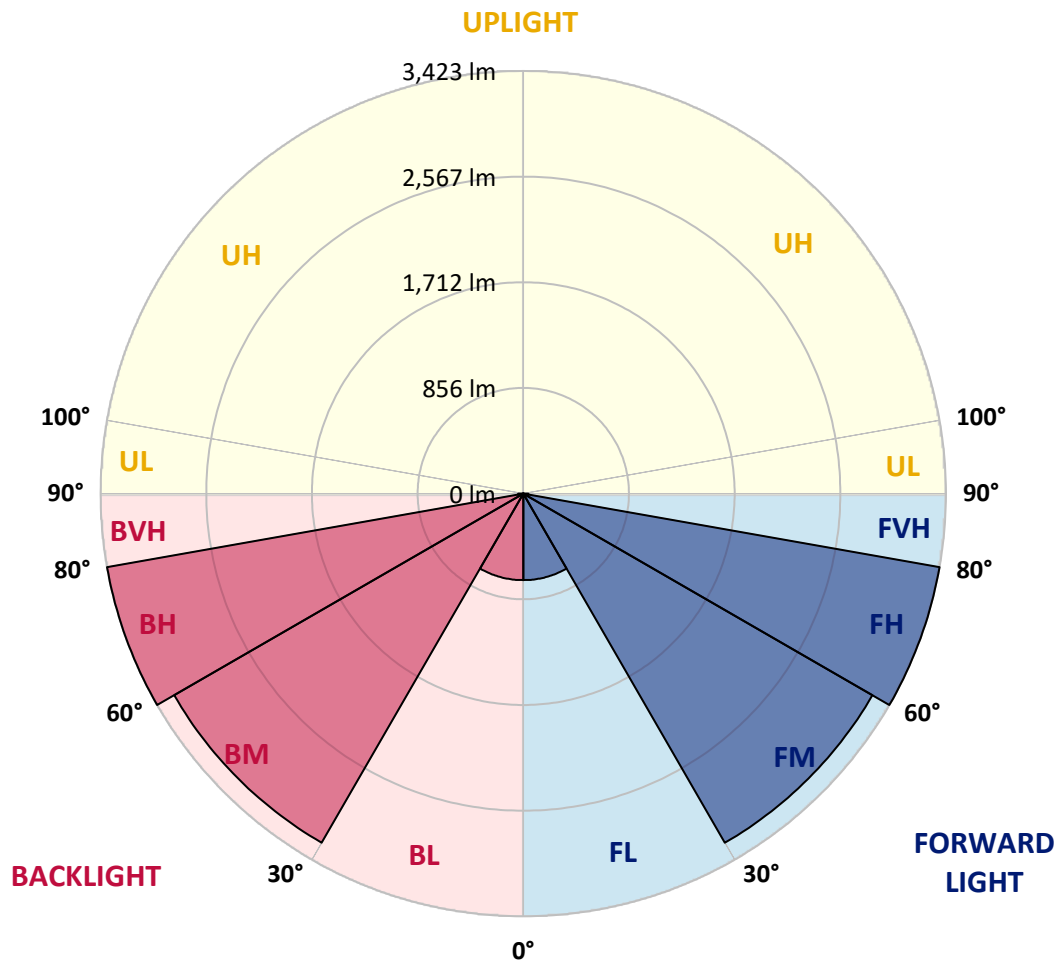
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	700.5	4.7			
FM	(30°-60°)	3264.4	22.0			
FH	(60°-80°)	3423.2	23.0			G2/5000
FVH	(80°-90°)	41.5	0.3			G1/100
BL	(0°-30°)	700.5	4.7	B2/1000		
BM	(30°-60°)	3264.4	22.0	B3/5000		
BH	(60°-80°)	3423.2	23.0	B4/5000		G2/5000
BVH	(80°-90°)	41.5	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°	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0
2.5°	1650.0	1651.6	1649.2	1647.7	1646.9	1646.9	1646.1	1646.9	1651.6	1652.4	1650.0
5°	1645.3	1646.9	1646.1	1644.5	1643.8	1643.8	1643.0	1642.2	1646.1	1647.7	1646.9
7.5°	1639.1	1639.8	1639.1	1638.3	1639.1	1638.3	1635.9	1634.4	1637.5	1637.5	1636.7
10°	1628.1	1629.7	1628.9	1629.7	1631.2	1631.2	1628.1	1625.0	1625.7	1624.2	1624.2
12.5°	1614.8	1617.1	1617.9	1621.0	1625.0	1629.7	1622.6	1615.6	1614.0	1613.2	1612.4
15°	1606.2	1608.5	1611.6	1614.8	1621.8	1632.0	1621.8	1610.9	1607.7	1604.6	1603.0
17.5°	1603.8	1607.0	1611.6	1616.3	1625.7	1635.9	1627.3	1616.3	1608.5	1603.8	1602.3
20°	1610.1	1612.4	1619.5	1628.1	1641.4	1651.6	1643.0	1631.2	1619.5	1612.4	1610.1
22.5°	1622.6	1626.5	1635.1	1650.8	1669.6	1684.5	1672.7	1653.2	1634.4	1625.0	1621.8
25°	1650.0	1653.2	1663.3	1684.5	1706.4	1720.5	1708.0	1685.3	1659.4	1646.9	1643.0
27.5°	1691.5	1696.2	1707.2	1732.2	1750.3	1758.1	1749.5	1733.8	1715.0	1701.7	1698.6
30°	1750.3	1755.7	1772.2	1798.8	1810.6	1815.3	1811.3	1801.2	1787.9	1773.8	1770.6
32.5°	1829.4	1832.5	1851.3	1876.3	1887.3	1888.9	1884.2	1879.5	1857.5	1834.1	1832.5
35°	1917.8	1923.3	1946.0	1975.8	1986.0	1986.8	1977.4	1970.3	1944.5	1925.7	1925.7
37.5°	2035.3	2037.7	2059.6	2093.3	2104.2	2101.1	2096.4	2090.1	2062.7	2038.4	2039.2
40°	2173.1	2177.8	2196.6	2235.8	2235.8	2231.9	2235.0	2230.3	2202.9	2179.4	2180.2
42.5°	2336.8	2339.2	2361.9	2403.4	2400.2	2392.4	2395.5	2389.3	2372.1	2345.4	2336.0
45°	2511.4	2520.8	2560.0	2599.9	2593.7	2568.6	2581.1	2579.6	2563.9	2524.0	2526.3
47.5°	2722.1	2737.8	2775.4	2823.1	2816.1	2776.9	2791.0	2800.4	2778.5	2734.6	2726.8
50°	2959.4	2969.6	3025.2	3069.8	3063.5	3022.0	3054.1	3055.7	3000.9	2939.0	2939.0
52.5°	3212.3	3222.5	3297.7	3367.4	3371.3	3311.0	3336.9	3335.3	3246.0	3164.6	3148.9
55°	3495.8	3500.5	3597.6	3700.2	3722.1	3663.4	3666.5	3635.2	3519.3	3424.6	3415.9
57.5°	3788.7	3805.9	3913.2	4046.4	4111.4	4075.3	4058.9	3975.1	3863.1	3754.3	3748.8
60°	4112.9	4113.7	4253.1	4410.5	4542.1	4566.3	4499.0	4387.0	4242.1	4098.0	4091.8
62.5°	4337.7	4371.3	4547.5	4813.8	5049.5	5185.8	5008.0	4773.1	4488.0	4255.4	4231.9
65°	4383.9	4406.6	4675.2	5126.3	5607.9	5901.5	5490.4	4990.8	4504.5	4194.4	4178.7
67.5°	4010.3	4034.6	4396.4	5088.7	5999.4	6601.7	5803.7	4885.9	4225.7	3842.0	3811.4
70°	3101.9	3129.3	3576.5	4479.4	5912.5	6821.7	5580.5	4261.7	3484.9	3070.6	3015.0
72.5°	1649.2	1750.3	2132.4	3074.5	4798.9	5873.4	4575.7	3109.7	2247.5	1837.2	1763.6
75°	602.2	614.7	827.8	1363.4	2791.8	4027.6	2899.1	1483.2	852.8	658.6	624.9
77.5°	249.0	248.2	272.5	411.9	1014.1	2062.7	1131.6	435.4	271.7	251.4	248.2
80°	147.2	147.2	162.1	171.5	267.0	622.6	298.4	194.2	162.9	148.8	151.1
82.5°	65.8	69.7	102.6	108.1	129.2	170.7	144.1	123.7	106.5	73.6	66.6
85°	36.0	31.3	54.0	56.4	61.9	63.4	68.1	67.3	61.9	36.0	36.8
87.5°	7.0	8.6	15.7	11.7	13.3	11.7	15.7	21.9	22.7	12.5	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)