

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: P453382

Luminaire Tested: **GALN-SA4B-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18721 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 164
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

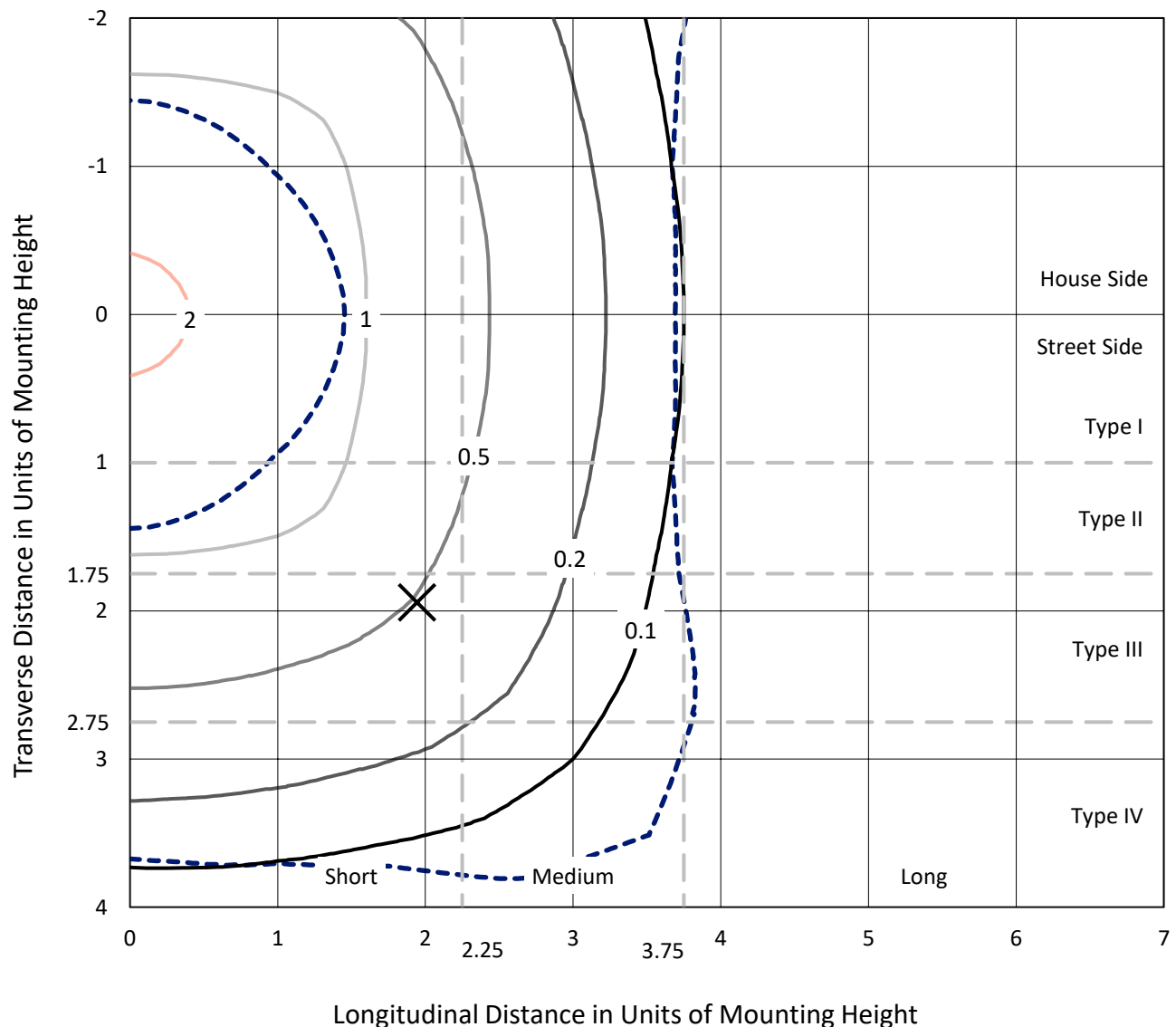


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

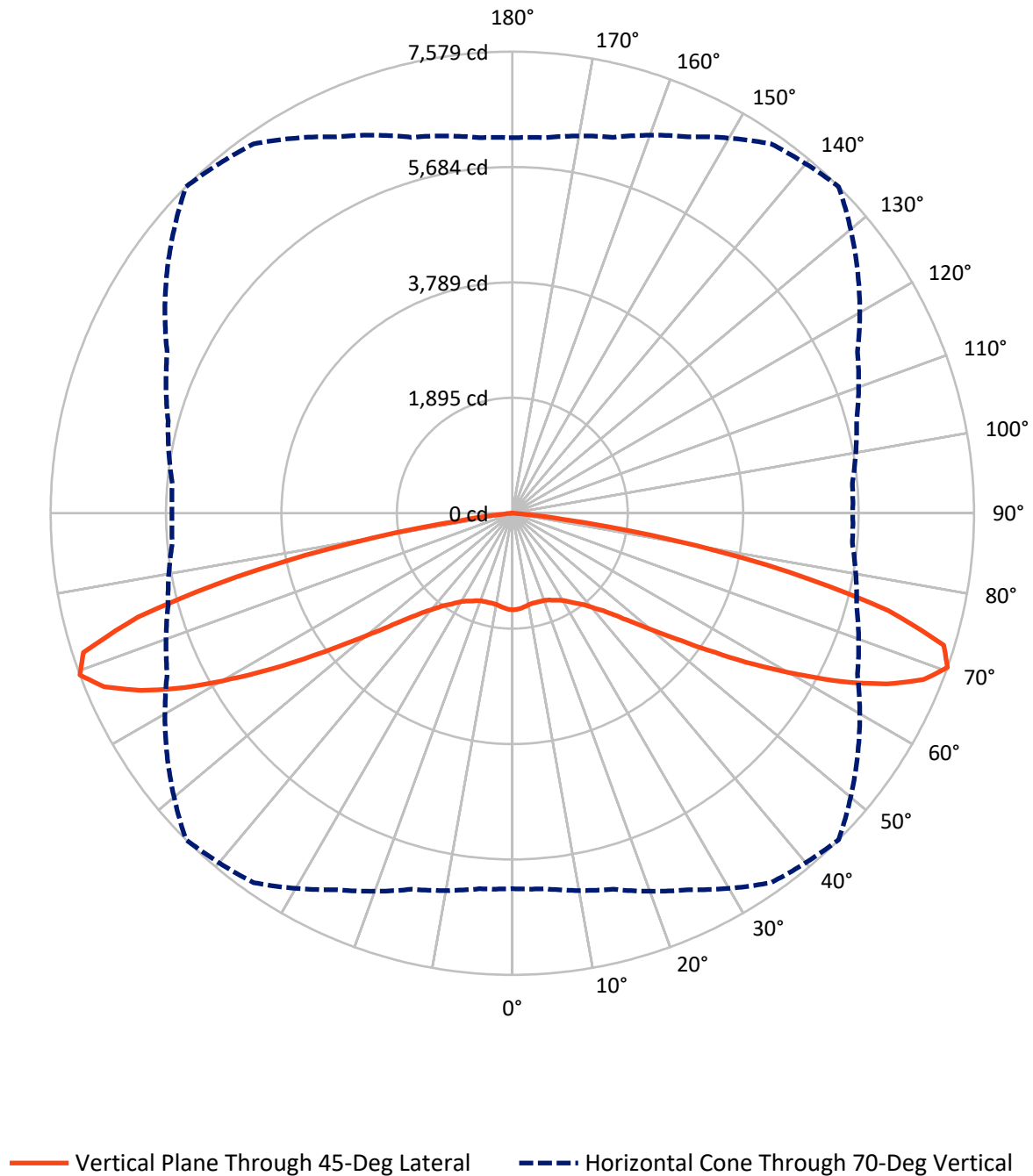


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9360.5	0.0	9360.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9360.5	0.0	9360.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18721.0	0.0	18721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	0.8
10°-20°	433.9	2.3
20°-30°	739.3	3.9
30°-40°	1145.9	6.1
40°-50°	1928.8	10.3
50°-60°	3509.3	18.7
60°-70°	5941.2	31.7
70°-80°	4598.7	24.6
80°-90°	275.6	1.5
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°	18721.0	100.0
0°-180°	18721.0	100.0

Coefficient of Utilization



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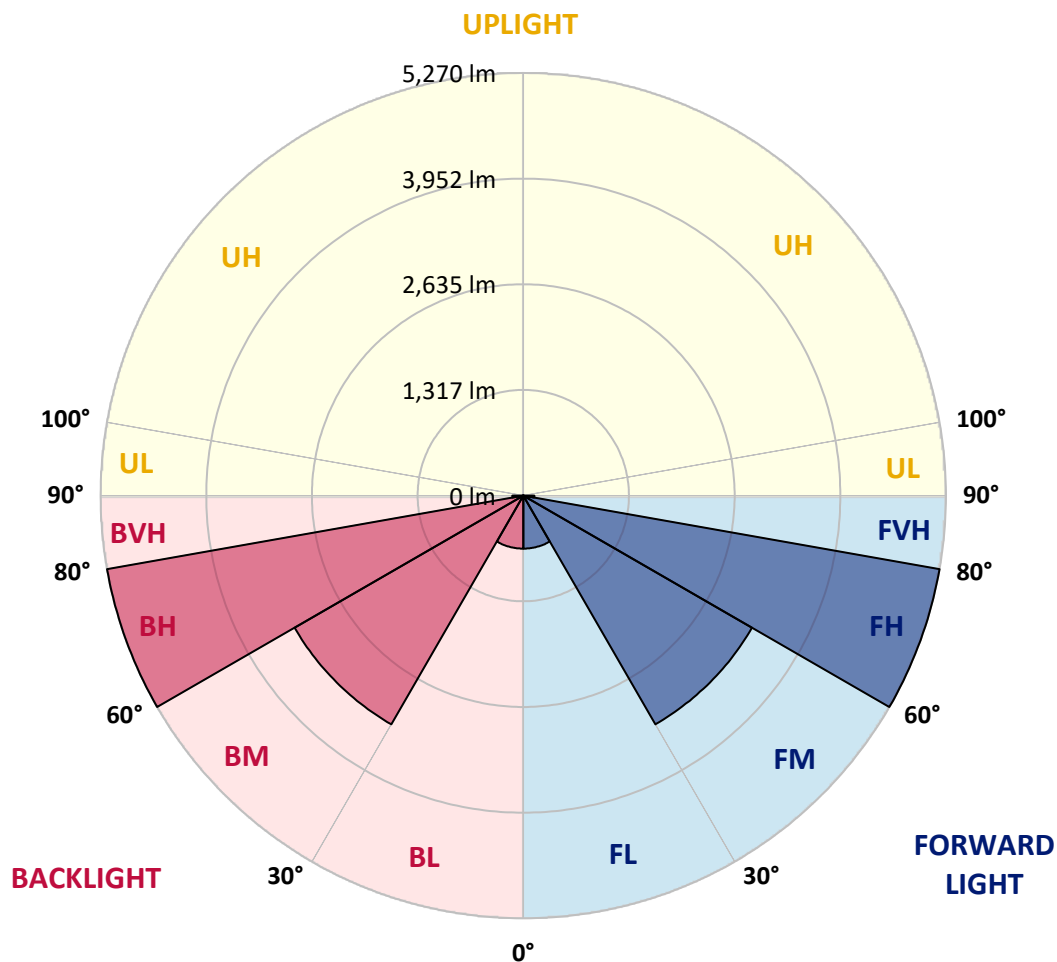
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	660.7	3.5			
FM	(30°-60°)	3292.0	17.6			
FH	(60°-80°)	5270.0	28.1			G3/7500
FVH	(80°-90°)	137.8	0.7			G2/225
BL	(0°-30°)	660.7	3.5	B2/1000		
BM	(30°-60°)	3292.0	17.6	B3/5000		
BH	(60°-80°)	5270.0	28.1	B5		G3/7500
BVH	(80°-90°)	137.8	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0
2.5°	1581.0	1582.0	1582.0	1580.0	1579.0	1579.0	1578.0	1578.0	1581.0	1582.0	1583.0
5°	1567.2	1567.2	1567.2	1566.2	1564.2	1564.2	1562.2	1562.2	1563.2	1566.2	1564.2
7.5°	1548.4	1550.4	1550.4	1546.4	1543.4	1543.4	1542.4	1543.4	1544.4	1547.4	1546.4
10°	1542.4	1543.4	1538.5	1531.6	1526.6	1523.7	1524.6	1526.6	1531.6	1533.5	1534.5
12.5°	1546.4	1546.4	1537.5	1527.6	1518.7	1514.8	1513.8	1520.7	1529.6	1535.5	1537.5
15°	1551.3	1549.4	1538.5	1525.6	1516.7	1515.7	1514.8	1519.7	1532.6	1544.4	1545.4
17.5°	1554.3	1553.3	1539.5	1523.7	1518.7	1518.7	1517.7	1521.7	1535.5	1550.4	1551.3
20°	1564.2	1561.2	1545.4	1528.6	1524.6	1526.6	1523.7	1528.6	1543.4	1561.2	1565.2
22.5°	1584.0	1581.0	1565.2	1548.4	1546.4	1546.4	1545.4	1550.4	1566.2	1585.0	1587.9
25°	1607.7	1604.7	1589.9	1578.0	1580.0	1584.0	1582.0	1583.0	1595.8	1611.7	1616.6
27.5°	1639.3	1634.4	1621.5	1611.7	1617.6	1617.6	1617.6	1616.6	1624.5	1639.3	1644.3
30°	1677.9	1675.9	1662.1	1661.1	1666.0	1661.1	1661.1	1662.1	1663.1	1676.9	1681.9
32.5°	1728.3	1724.4	1717.5	1715.5	1729.3	1733.3	1719.4	1706.6	1713.5	1727.3	1730.3
35°	1811.4	1805.5	1795.6	1784.7	1795.6	1814.4	1784.7	1774.8	1792.6	1811.4	1813.4
37.5°	1924.1	1921.1	1905.3	1885.5	1884.6	1904.3	1873.7	1872.7	1906.3	1929.0	1932.0
40°	2065.5	2068.5	2048.7	2029.9	2020.0	2035.8	2012.1	2021.0	2053.6	2079.3	2077.4
42.5°	2264.2	2253.4	2222.7	2204.9	2194.0	2188.1	2182.2	2196.0	2232.6	2260.3	2282.0
45°	2496.6	2492.6	2454.1	2432.3	2408.6	2399.7	2397.7	2422.4	2466.9	2500.5	2503.5
47.5°	2759.6	2750.7	2726.0	2703.2	2694.3	2683.5	2673.6	2692.4	2736.9	2760.6	2767.5
50°	3030.5	3032.5	3032.5	3028.5	3037.4	3039.4	3012.7	3019.6	3044.4	3042.4	3040.4
52.5°	3340.0	3350.9	3402.3	3407.2	3449.7	3478.4	3430.0	3401.3	3392.4	3339.0	3343.0
55°	3703.8	3713.7	3790.9	3868.0	3982.7	4031.1	3929.3	3840.3	3777.0	3695.9	3699.9
57.5°	4157.7	4162.6	4235.8	4384.1	4566.0	4679.7	4500.8	4324.8	4196.2	4119.1	4088.5
60°	4646.1	4651.1	4757.9	4938.8	5221.6	5360.0	5138.5	4850.8	4688.6	4571.0	4578.9
62.5°	5232.5	5252.2	5348.1	5597.3	5940.4	6095.6	5802.0	5417.3	5197.8	5051.5	5057.4
65°	5860.3	5893.9	5998.7	6272.6	6589.0	6756.1	6396.2	5952.3	5679.4	5500.4	5519.2
67.5°	6267.7	6297.3	6448.6	6751.2	7145.7	7284.1	6819.4	6302.3	5961.2	5747.6	5708.0
70°	6163.9	6188.6	6390.3	6819.4	7403.7	7578.7	6920.2	6250.9	5849.4	5603.2	5587.4
72.5°	5441.1	5389.7	5684.3	6300.3	7109.1	7402.8	6602.9	5709.0	5203.8	4950.7	4921.0
75°	3606.0	3717.7	4152.7	4878.5	6014.5	6378.4	5635.9	4583.8	3948.1	3737.5	3704.8
77.5°	1205.3	1291.3	1677.9	2765.5	4100.3	4647.1	4106.3	2997.9	2120.9	1708.6	1716.5
80°	319.4	315.4	408.4	760.3	1771.8	2691.4	2062.5	1015.4	555.7	402.4	381.7
82.5°	114.7	128.5	165.1	210.6	469.7	836.5	590.3	284.8	208.6	154.2	149.3
85°	50.4	49.4	71.2	84.0	117.7	156.2	138.4	120.6	105.8	70.2	65.3
87.5°	10.9	10.9	16.8	12.9	20.8	20.8	25.7	30.7	31.6	20.8	16.8
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)