

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: P648361

Luminaire Tested: **GALN-SA4B-835-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648361  
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-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 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: 18446.7 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

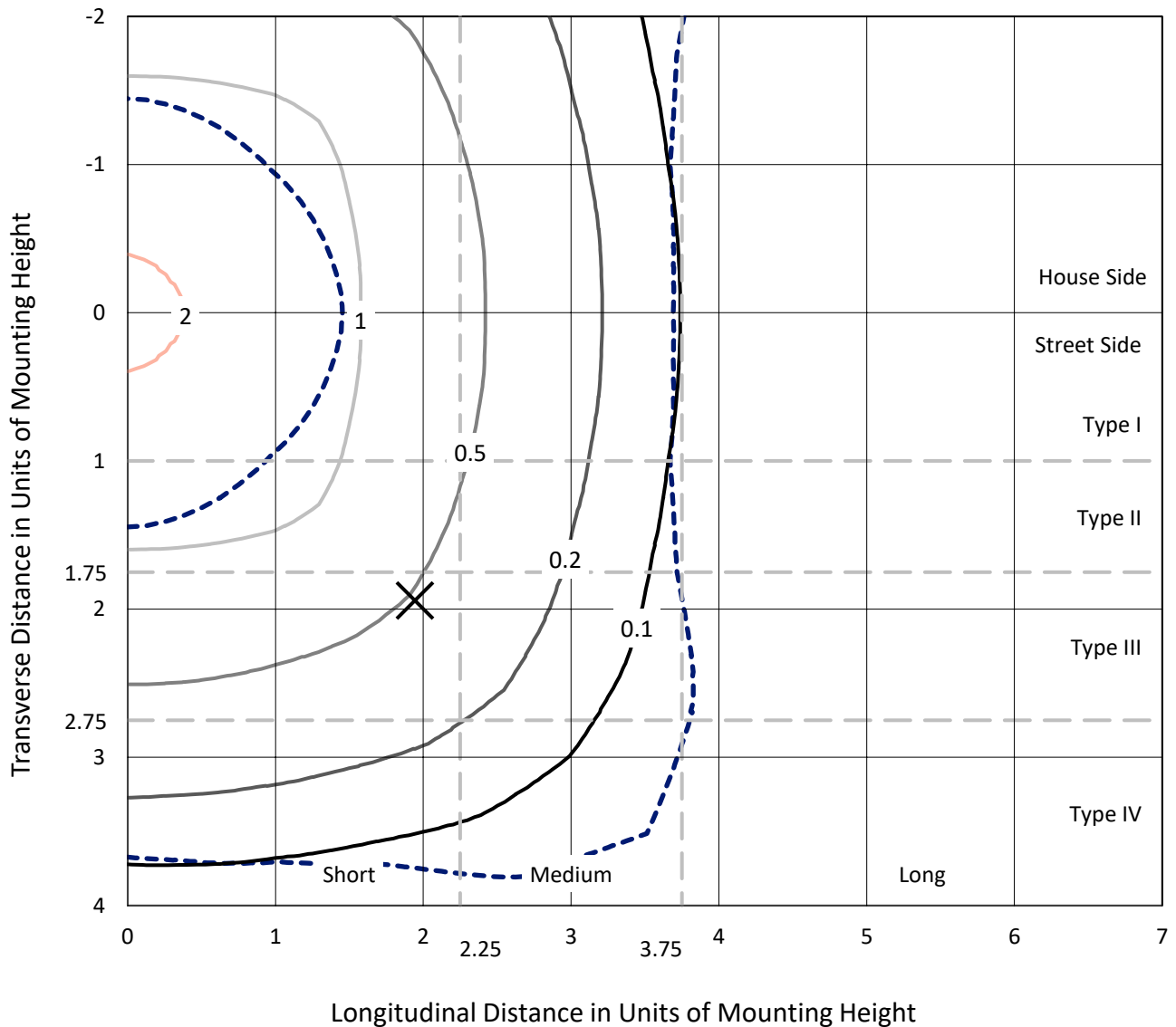
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

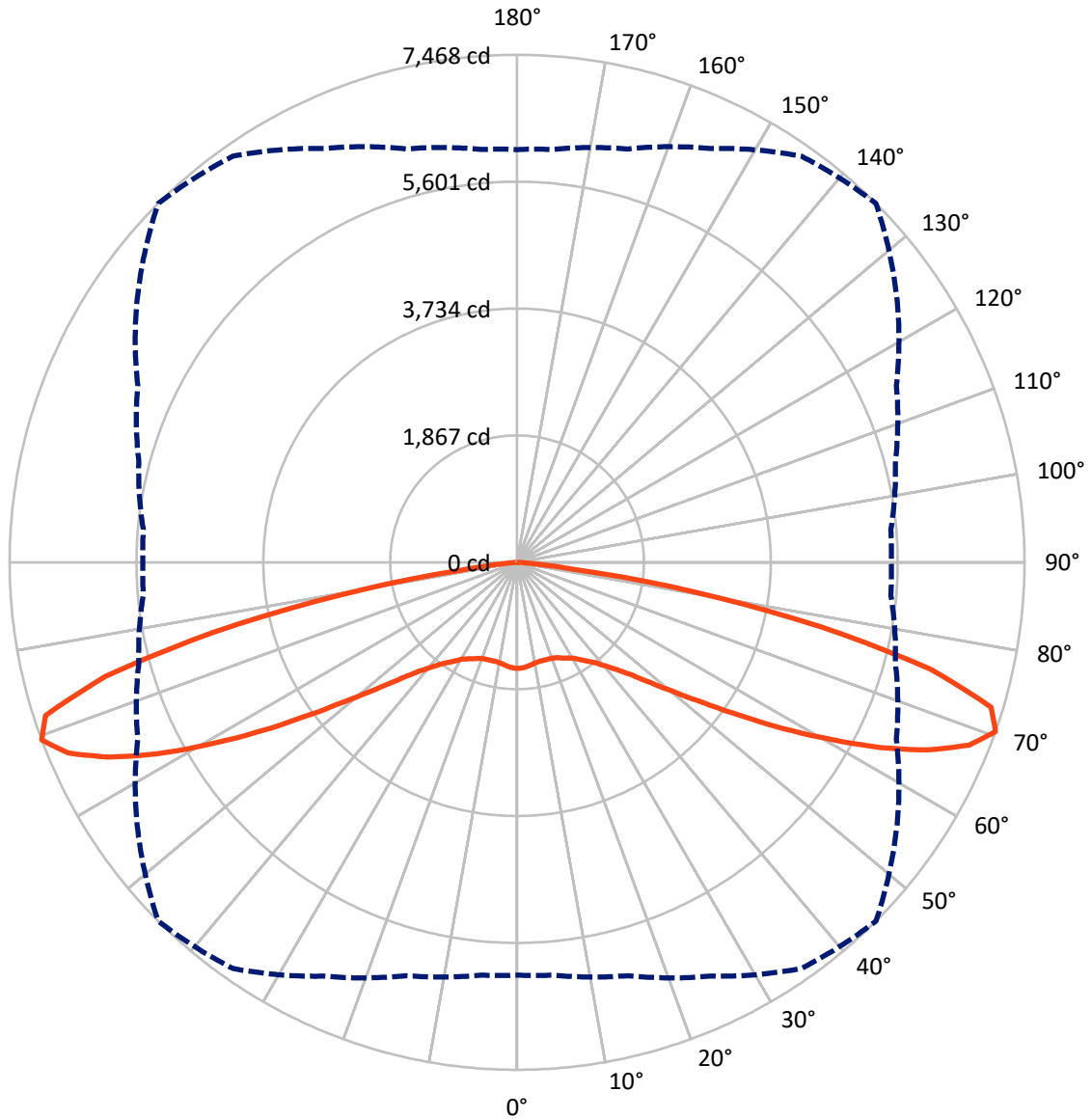
× Max cd  
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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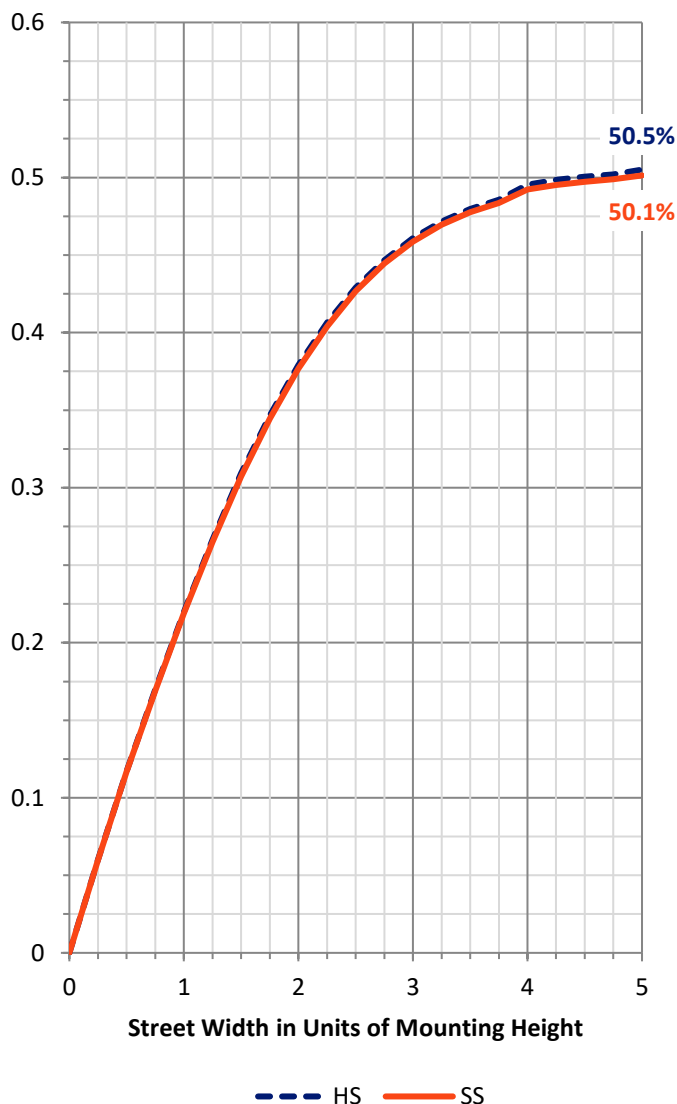
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9223.4	0.0	9223.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9223.4	0.0	9223.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18446.7	0.0	18446.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.1	0.8
10°-20°	427.6	2.3
20°-30°	728.5	3.9
30°-40°	1129.1	6.1
40°-50°	1900.5	10.3
50°-60°	3457.9	18.7
60°-70°	5854.1	31.7
70°-80°	4531.3	24.6
80°-90°	271.5	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°	18446.7	100.0
0°-180°	18446.7	100.0

**Coefficient of Utilization**

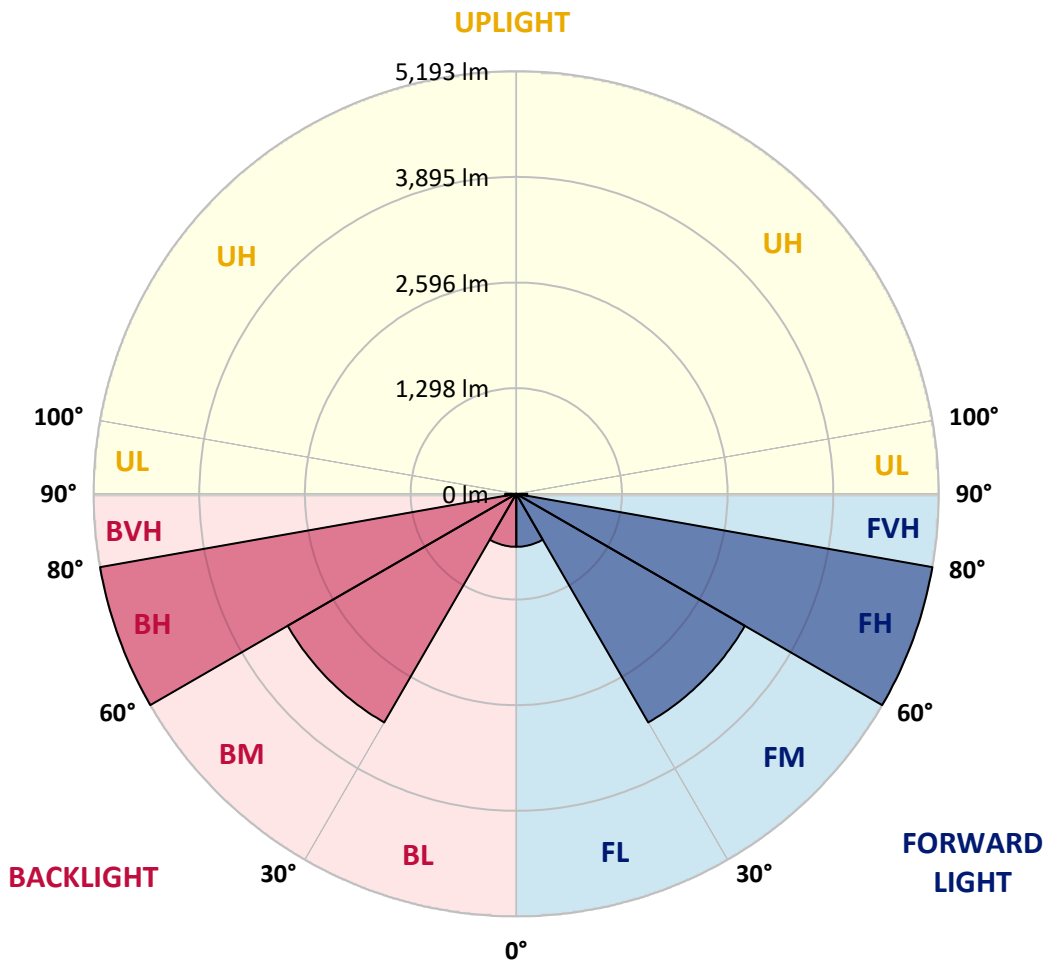


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.1	3.5			
FM (30°-60°)	3243.8	17.6			
FH (60°-80°)	5192.7	28.1			G3/7500
FVH (80°-90°)	135.8	0.7			G2/225
BL (0°-30°)	651.1	3.5	B2/1000		
BM (30°-60°)	3243.8	17.6	B3/5000		
BH (60°-80°)	5192.7	28.1	B5		G3/7500
BVH (80°-90°)	135.8	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°	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8
2.5°	1557.9	1558.8	1558.8	1556.8	1555.9	1555.9	1554.9	1554.9	1557.9	1558.8	1559.8
5°	1544.2	1544.2	1544.2	1543.2	1541.3	1541.3	1539.3	1539.3	1540.3	1543.2	1541.3
7.5°	1525.7	1527.6	1527.6	1523.7	1520.8	1520.8	1519.9	1520.8	1521.8	1524.7	1523.7
10°	1519.9	1520.8	1516.0	1509.2	1504.2	1501.3	1502.3	1504.2	1509.2	1511.1	1512.1
12.5°	1523.7	1523.7	1514.9	1505.2	1496.5	1492.6	1491.6	1498.4	1507.2	1513.0	1514.9
15°	1528.7	1526.7	1516.0	1503.3	1494.5	1493.6	1492.6	1497.4	1510.1	1521.8	1522.8
17.5°	1531.5	1530.5	1516.9	1501.3	1496.5	1496.5	1495.5	1499.4	1513.0	1527.6	1528.7
20°	1541.3	1538.4	1522.8	1506.2	1502.3	1504.2	1501.3	1506.2	1520.8	1538.4	1542.3
22.5°	1560.8	1557.9	1542.3	1525.7	1523.7	1523.7	1522.8	1527.6	1543.2	1561.8	1564.7
25°	1584.2	1581.2	1566.6	1554.9	1556.8	1560.8	1558.8	1559.8	1572.4	1588.1	1592.9
27.5°	1615.3	1610.5	1597.8	1588.1	1593.9	1593.9	1593.9	1592.9	1600.7	1615.3	1620.2
30°	1653.3	1651.3	1637.7	1636.8	1641.6	1636.8	1636.8	1637.7	1638.7	1652.4	1657.2
32.5°	1703.0	1699.1	1692.3	1690.3	1704.0	1707.9	1694.3	1681.6	1688.4	1702.0	1705.0
35°	1784.8	1779.0	1769.3	1758.5	1769.3	1787.7	1758.5	1748.8	1766.4	1784.8	1786.8
37.5°	1895.9	1893.0	1877.4	1857.9	1857.0	1876.5	1846.2	1845.2	1878.3	1900.8	1903.7
40°	2035.3	2038.1	2018.7	2000.2	1990.4	2006.0	1982.6	1991.4	2023.5	2048.9	2046.9
42.5°	2231.1	2220.4	2190.1	2172.6	2161.9	2156.1	2150.2	2163.8	2199.9	2227.2	2248.6
45°	2460.0	2456.1	2418.1	2396.7	2373.3	2364.5	2362.5	2387.0	2430.7	2463.9	2466.8
47.5°	2719.1	2710.4	2686.0	2663.6	2654.8	2644.1	2634.4	2652.9	2696.7	2720.1	2727.0
50°	2986.1	2988.1	2988.1	2984.2	2992.9	2994.9	2968.6	2975.4	2999.8	2997.8	2995.8
52.5°	3291.0	3301.8	3352.4	3357.3	3399.2	3427.4	3379.7	3351.5	3342.7	3290.1	3294.0
55°	3649.6	3659.4	3735.3	3811.3	3924.3	3972.1	3871.7	3784.0	3721.7	3641.8	3645.6
57.5°	4096.7	4101.7	4173.7	4319.9	4499.1	4611.2	4434.8	4261.4	4134.8	4058.8	4028.5
60°	4578.0	4582.9	4688.1	4866.4	5145.1	5281.5	5063.2	4779.7	4619.9	4504.0	4511.8
62.5°	5155.8	5175.2	5269.7	5515.3	5853.3	6006.3	5717.0	5337.9	5121.7	4977.5	4983.3
65°	5774.5	5807.6	5910.9	6180.7	6492.5	6657.1	6302.5	5865.1	5596.2	5419.8	5438.3
67.5°	6175.8	6205.0	6354.1	6652.2	7041.0	7177.4	6719.5	6209.9	5873.8	5663.4	5624.4
70°	6073.6	6097.9	6296.7	6719.5	7295.3	7467.7	6818.8	6159.2	5763.7	5521.2	5505.5
72.5°	5361.4	5310.7	5601.0	6208.0	7005.0	7294.3	6506.1	5625.4	5127.6	4878.1	4848.9
75°	3553.1	3663.2	4091.9	4807.0	5926.4	6285.0	5553.3	4516.7	3890.3	3682.7	3650.6
77.5°	1187.7	1272.4	1653.3	2725.0	4040.3	4579.0	4046.1	2953.9	2089.7	1683.5	1691.3
80°	314.7	310.8	402.4	749.2	1745.9	2651.9	2032.3	1000.6	547.6	396.5	376.1
82.5°	113.0	126.7	162.7	207.5	462.8	824.2	581.6	280.5	205.5	152.0	147.1
85°	49.7	48.7	70.2	82.8	116.0	153.9	136.4	118.9	104.2	69.1	64.3
87.5°	10.7	10.7	16.6	12.7	20.4	20.4	25.4	30.2	31.2	20.4	16.6
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)