

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: P652321

Luminaire Tested: **GALN-SA4B-840-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652321  
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-840-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 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: 19813.1 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

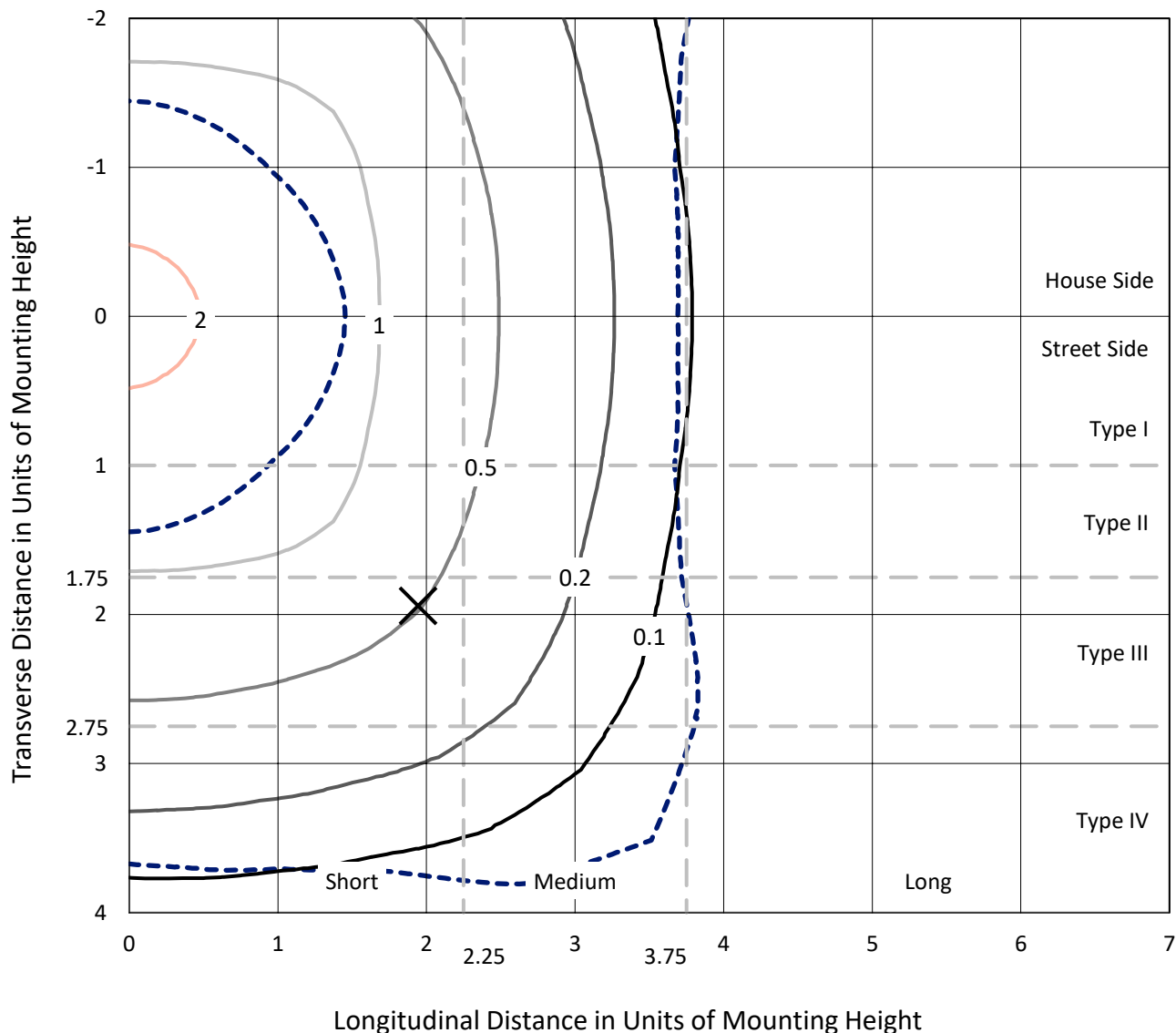
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

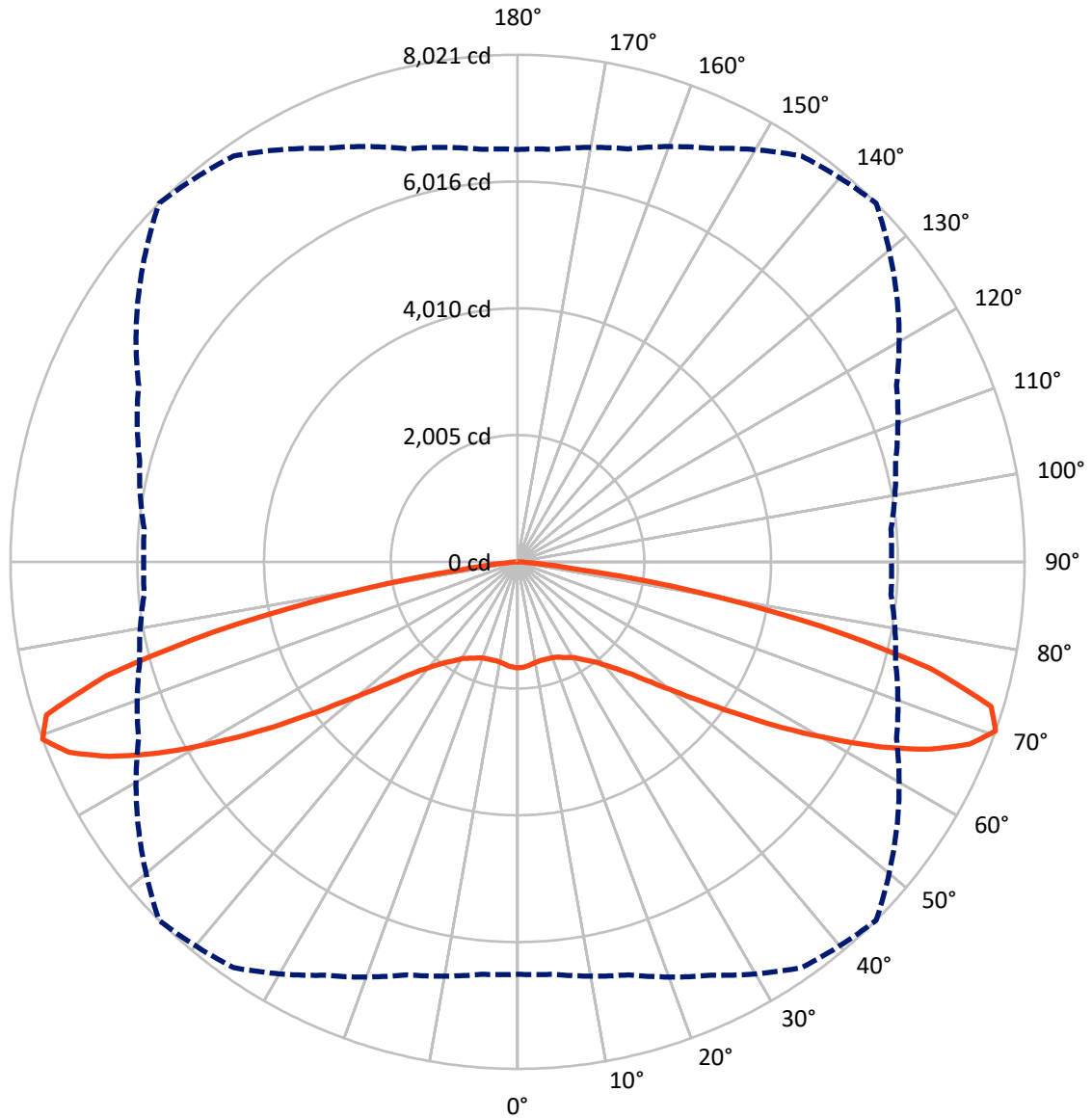
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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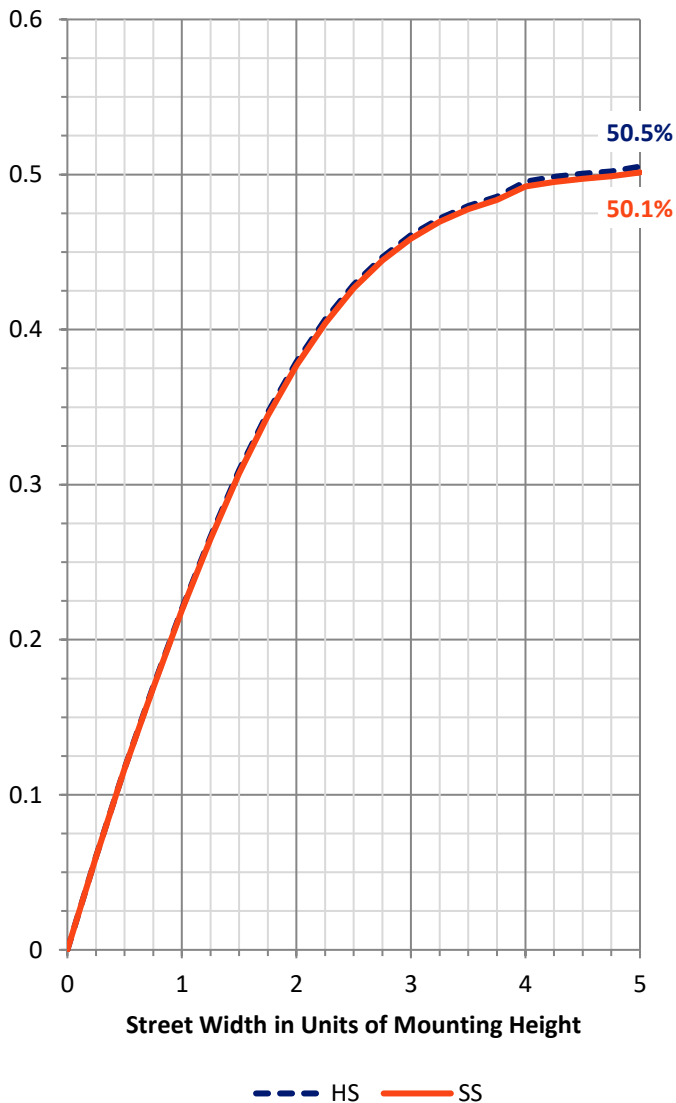
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9906.6	0.0	9906.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9906.6	0.0	9906.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19813.1	0.0	19813.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.9	0.8
10°-20°	459.2	2.3
20°-30°	782.5	3.9
30°-40°	1212.8	6.1
40°-50°	2041.3	10.3
50°-60°	3714.1	18.7
60°-70°	6287.8	31.7
70°-80°	4867.0	24.6
80°-90°	291.6	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°	19813.1	100.0
0°-180°	19813.1	100.0



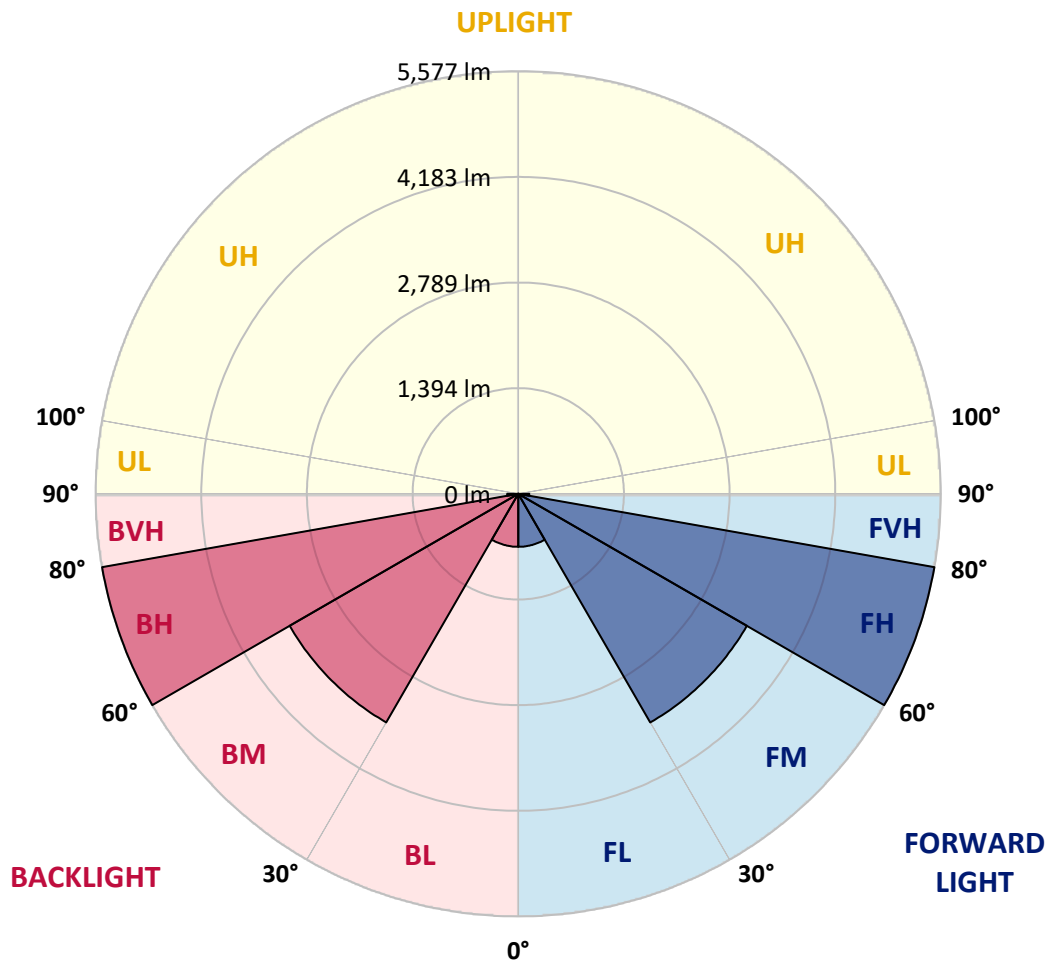
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.3	3.5			
FM (30°-60°)	3484.1	17.6			
FH (60°-80°)	5577.4	28.1			G3/7500
FVH (80°-90°)	145.8	0.7			G2/225
BL (0°-30°)	699.3	3.5	B2/1000		
BM (30°-60°)	3484.1	17.6	B3/5000		
BH (60°-80°)	5577.4	28.1	B5		G3/7500
BVH (80°-90°)	145.8	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°	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5
2.5°	1673.3	1674.3	1674.3	1672.2	1671.2	1671.2	1670.1	1670.1	1673.3	1674.3	1675.4
5°	1658.6	1658.6	1658.6	1657.5	1655.4	1655.4	1653.3	1653.3	1654.4	1657.5	1655.4
7.5°	1638.7	1640.8	1640.8	1636.6	1633.5	1633.5	1632.5	1633.5	1634.5	1637.7	1636.6
10°	1632.5	1633.5	1628.3	1620.9	1615.6	1612.5	1613.6	1615.6	1620.9	1623.0	1624.1
12.5°	1636.6	1636.6	1627.2	1616.7	1607.3	1603.1	1602.1	1609.4	1618.8	1625.1	1627.2
15°	1641.9	1639.8	1628.3	1614.6	1605.2	1604.2	1603.1	1608.3	1622.0	1634.5	1635.6
17.5°	1645.0	1643.9	1629.3	1612.5	1607.3	1607.3	1606.2	1610.4	1625.1	1640.8	1641.9
20°	1655.4	1652.3	1635.6	1617.7	1613.6	1615.6	1612.5	1617.7	1633.5	1652.3	1656.5
22.5°	1676.4	1673.3	1656.5	1638.7	1636.6	1636.6	1635.6	1640.8	1657.5	1677.5	1680.6
25°	1701.5	1698.3	1682.7	1670.1	1672.2	1676.4	1674.3	1675.4	1688.9	1705.7	1710.9
27.5°	1735.0	1729.8	1716.1	1705.7	1711.9	1711.9	1711.9	1710.9	1719.3	1735.0	1740.2
30°	1775.8	1773.7	1759.0	1758.0	1763.2	1758.0	1758.0	1759.0	1760.1	1774.8	1780.0
32.5°	1829.2	1825.0	1817.7	1815.6	1830.2	1834.4	1819.8	1806.1	1813.4	1828.1	1831.3
35°	1917.1	1910.8	1900.3	1888.8	1900.3	1920.2	1888.8	1878.4	1897.2	1917.1	1919.2
37.5°	2036.3	2033.2	2016.5	1995.5	1994.5	2015.5	1983.0	1981.9	2017.5	2041.6	2044.7
40°	2186.0	2189.1	2168.2	2148.3	2137.8	2154.6	2129.5	2138.9	2173.4	2200.6	2198.5
42.5°	2396.3	2384.8	2352.4	2333.5	2322.0	2315.8	2309.5	2324.1	2362.9	2392.1	2415.2
45°	2642.3	2638.0	2597.3	2574.2	2549.1	2539.7	2537.5	2563.8	2610.8	2646.4	2649.6
47.5°	2920.5	2911.1	2885.0	2860.9	2851.5	2840.0	2829.5	2849.4	2896.5	2921.6	2929.0
50°	3207.3	3209.4	3209.4	3205.2	3214.6	3216.7	3188.5	3195.8	3222.0	3219.9	3217.8
52.5°	3534.8	3546.3	3600.7	3606.0	3650.9	3681.3	3630.1	3599.7	3590.3	3533.8	3538.0
55°	3919.9	3930.4	4012.0	4093.7	4215.0	4266.3	4158.5	4064.3	3997.4	3911.6	3915.7
57.5°	4400.2	4405.5	4482.9	4639.9	4832.4	4952.7	4763.3	4577.1	4441.1	4359.4	4326.9
60°	4917.2	4922.4	5035.4	5226.9	5526.2	5672.7	5438.2	5133.8	4962.2	4837.6	4846.0
62.5°	5537.7	5558.6	5660.1	5923.8	6286.9	6451.2	6140.5	5733.3	5501.1	5346.2	5352.5
65°	6202.2	6237.8	6348.7	6638.5	6973.4	7150.3	6769.4	6299.5	6010.7	5821.2	5841.2
67.5°	6633.3	6664.7	6824.8	7145.0	7562.5	7709.0	7217.2	6669.9	6308.9	6082.9	6041.0
70°	6523.5	6549.6	6763.1	7217.2	7835.7	8020.9	7323.9	6615.5	6190.7	5930.1	5913.3
72.5°	5758.5	5704.1	6015.9	6667.9	7523.8	7834.6	6988.0	6042.1	5507.4	5239.4	5208.1
75°	3816.3	3934.5	4395.0	5163.1	6365.4	6750.5	5964.6	4851.2	4178.4	3955.5	3921.0
77.5°	1275.6	1366.6	1775.8	2926.8	4339.6	4918.2	4345.8	3172.8	2244.5	1808.2	1816.6
80°	338.0	333.8	432.2	804.7	1875.2	2848.4	2182.8	1074.7	588.1	425.9	403.9
82.5°	121.4	136.1	174.8	222.9	497.0	885.2	624.7	301.3	220.8	163.2	158.0
85°	53.4	52.3	75.4	89.0	124.6	165.3	146.5	127.7	111.9	74.3	69.0
87.5°	11.5	11.5	17.8	13.6	22.0	22.0	27.2	32.5	33.5	22.0	17.8
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)