

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: P650781

Luminaire Tested: **GALN-SA3C-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650781
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-SA3C-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18473.4 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

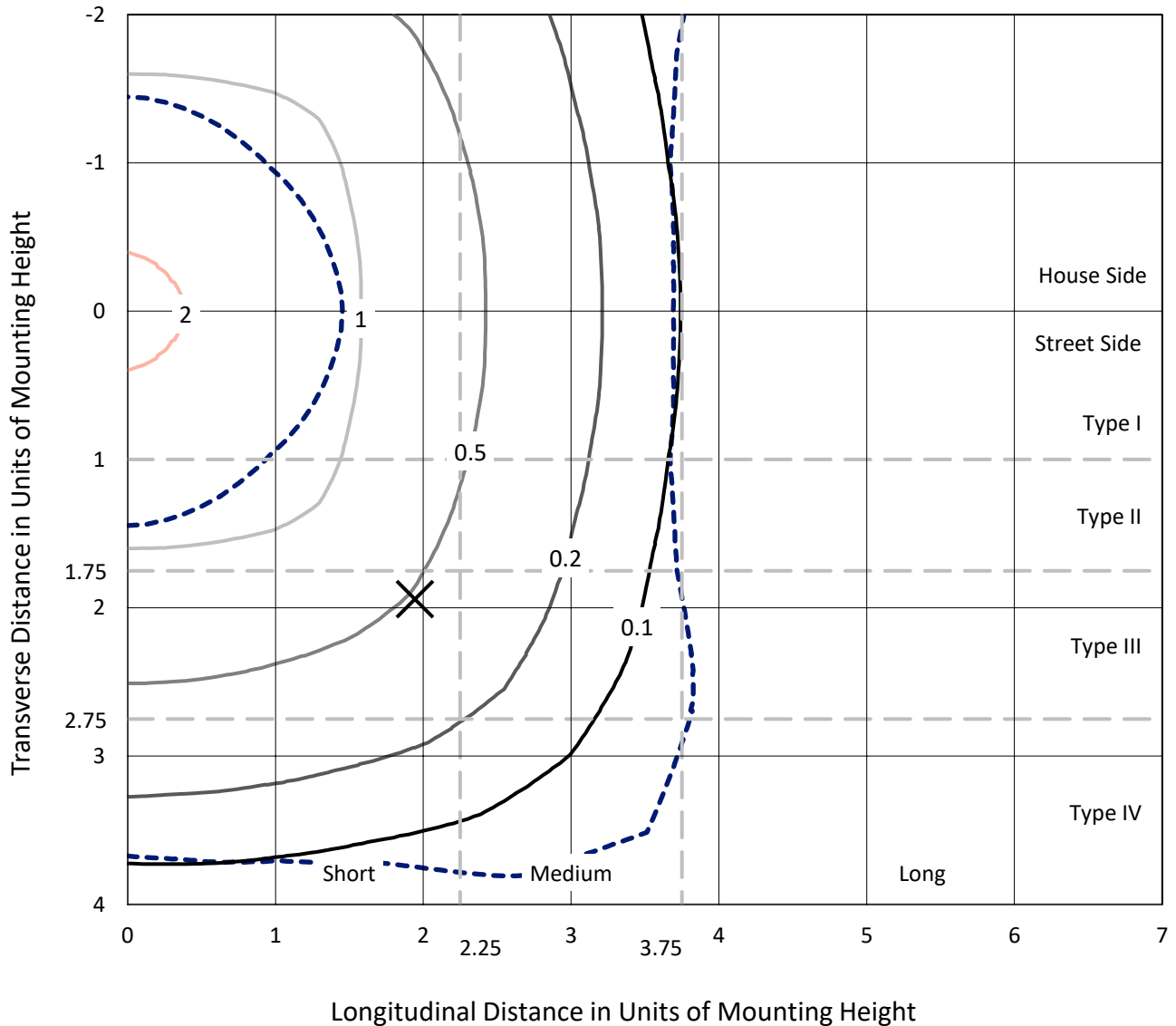
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

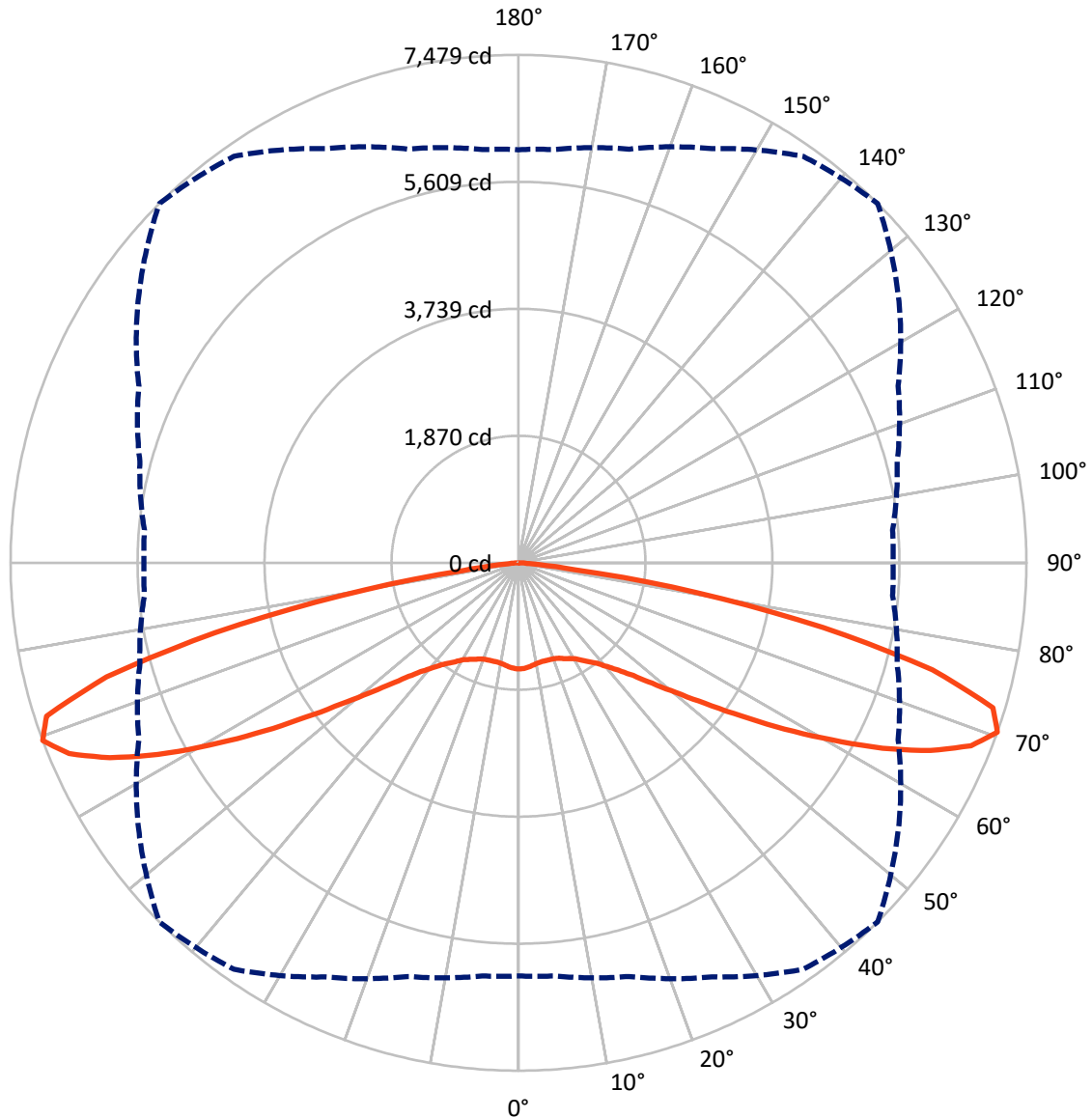
× Max cd
 - - - 1/2 Max cd



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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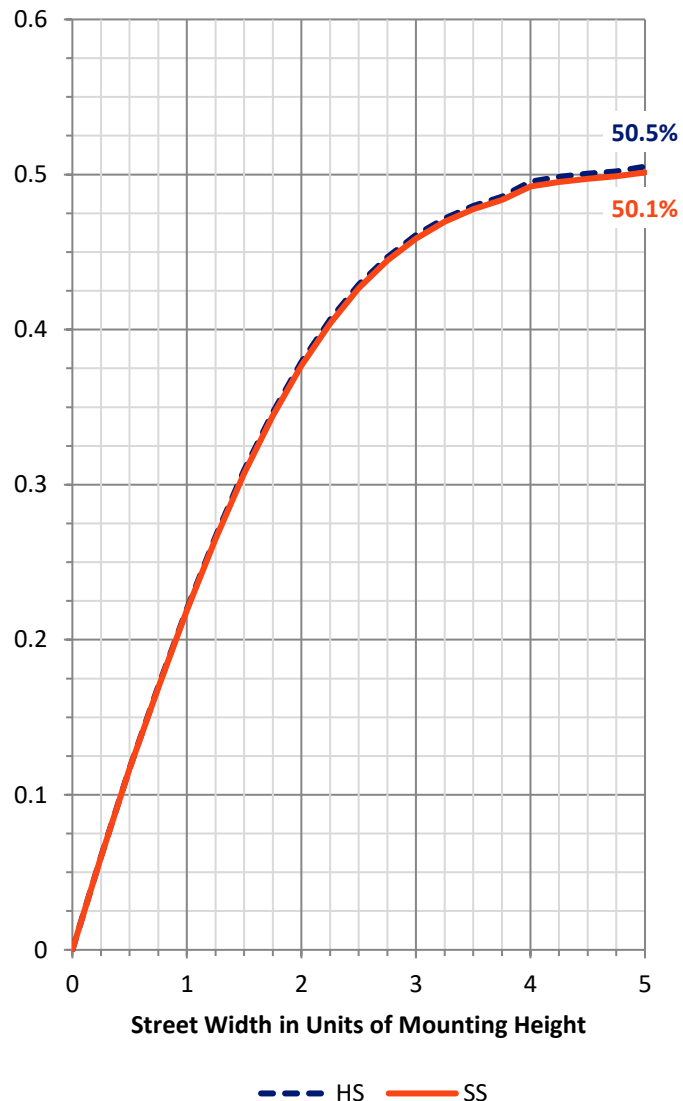
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9236.7	0.0	9236.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9236.7	0.0	9236.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	18473.4	0.0	18473.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	0.8
10°-20°	428.2	2.3
20°-30°	729.5	3.9
30°-40°	1130.8	6.1
40°-50°	1903.3	10.3
50°-60°	3462.9	18.7
60°-70°	5862.6	31.7
70°-80°	4537.9	24.6
80°-90°	271.9	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°	18473.4	100.0
0°-180°	18473.4	100.0

Coefficient of Utilization

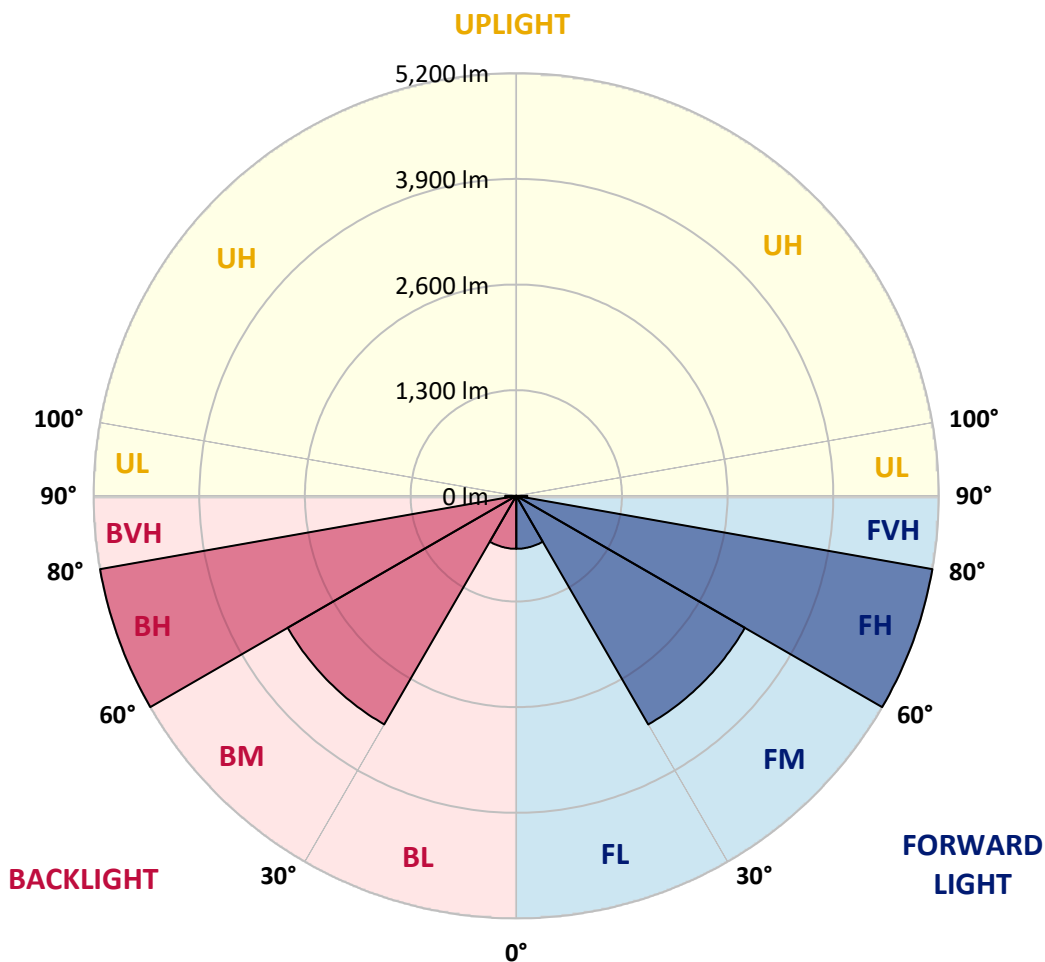


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	652.0	3.5			
FM (30°-60°)	3248.5	17.6			
FH (60°-80°)	5200.3	28.1			G3/7500
FVH (80°-90°)	136.0	0.7			G2/225
BL (0°-30°)	652.0	3.5	B2/1000		
BM (30°-60°)	3248.5	17.6	B3/5000		
BH (60°-80°)	5200.3	28.1	B5		G3/7500
BVH (80°-90°)	136.0	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°	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0	1564.0
2.5°	1560.1	1561.1	1561.1	1559.1	1558.1	1558.1	1557.2	1557.2	1560.1	1561.1	1562.1
5°	1546.4	1546.4	1546.4	1545.4	1543.5	1543.5	1541.6	1541.6	1542.6	1545.4	1543.5
7.5°	1527.9	1529.9	1529.9	1525.9	1523.1	1523.1	1522.0	1523.1	1524.0	1526.9	1525.9
10°	1522.0	1523.1	1518.2	1511.3	1506.4	1503.5	1504.5	1506.4	1511.3	1513.3	1514.2
12.5°	1525.9	1525.9	1517.2	1507.4	1498.7	1494.7	1493.8	1500.6	1509.3	1515.2	1517.2
15°	1530.8	1528.9	1518.2	1505.5	1496.6	1495.7	1494.7	1499.6	1512.3	1524.0	1525.0
17.5°	1533.7	1532.8	1519.1	1503.5	1498.7	1498.7	1497.7	1501.5	1515.2	1529.9	1530.8
20°	1543.5	1540.5	1525.0	1508.4	1504.5	1506.4	1503.5	1508.4	1523.1	1540.5	1544.5
22.5°	1563.0	1560.1	1544.5	1527.9	1525.9	1525.9	1525.0	1529.9	1545.4	1564.0	1567.0
25°	1586.5	1583.5	1568.9	1557.2	1559.1	1563.0	1561.1	1562.1	1574.8	1590.3	1595.2
27.5°	1617.7	1612.8	1600.1	1590.3	1596.2	1596.2	1596.2	1595.2	1603.0	1617.7	1622.5
30°	1655.7	1653.7	1640.1	1639.1	1644.0	1639.1	1639.1	1640.1	1641.0	1654.8	1659.6
32.5°	1705.5	1701.6	1694.7	1692.8	1706.5	1710.3	1696.7	1684.0	1690.8	1704.5	1707.4
35°	1787.5	1781.6	1771.8	1761.1	1771.8	1790.3	1761.1	1751.3	1768.9	1787.5	1789.4
37.5°	1898.6	1895.7	1880.1	1860.6	1859.6	1879.1	1848.9	1847.9	1881.1	1903.5	1906.5
40°	2038.2	2041.1	2021.6	2003.1	1993.3	2008.9	1985.5	1994.3	2026.5	2051.9	2049.9
42.5°	2234.3	2223.5	2193.3	2175.8	2165.0	2159.2	2153.3	2167.0	2203.1	2230.4	2251.9
45°	2463.5	2459.7	2421.6	2400.1	2376.8	2367.9	2366.0	2390.4	2434.3	2467.5	2470.4
47.5°	2723.1	2714.3	2689.9	2667.5	2658.7	2648.0	2638.2	2656.7	2700.6	2724.1	2730.9
50°	2990.4	2992.4	2992.4	2988.5	2997.2	2999.2	2972.9	2979.7	3004.1	3002.1	3000.2
52.5°	3295.8	3306.6	3357.3	3362.1	3404.1	3432.4	3384.6	3356.3	3347.5	3294.9	3298.7
55°	3654.9	3664.7	3740.7	3816.8	3930.0	3977.8	3877.3	3789.5	3727.1	3647.1	3650.9
57.5°	4102.7	4107.6	4179.8	4326.1	4505.7	4617.8	4441.2	4267.6	4140.7	4064.6	4034.4
60°	4584.7	4589.6	4695.0	4873.5	5152.6	5289.1	5070.6	4786.6	4626.6	4510.5	4518.4
62.5°	5163.2	5182.7	5277.4	5523.3	5861.9	6015.0	5725.3	5345.7	5129.1	4984.7	4990.6
65°	5782.8	5815.9	5919.4	6189.7	6501.9	6666.8	6311.6	5873.5	5604.3	5427.6	5446.2
67.5°	6184.8	6214.1	6363.3	6661.9	7051.2	7187.8	6729.2	6218.9	5882.3	5671.5	5632.5
70°	6082.4	6106.8	6305.7	6729.2	7305.9	7478.5	6828.8	6168.2	5772.0	5529.2	5513.5
72.5°	5369.1	5318.4	5609.1	6217.0	7015.0	7304.8	6515.6	5633.5	5135.0	4885.2	4855.9
75°	3558.3	3668.5	4097.9	4814.0	5935.0	6294.0	5561.3	4523.2	3895.8	3688.0	3655.8
77.5°	1189.3	1274.2	1655.7	2729.0	4046.1	4585.6	4051.9	2958.2	2092.8	1686.0	1693.8
80°	315.1	311.3	402.9	750.3	1748.4	2655.8	2035.2	1002.1	548.3	397.1	376.6
82.5°	113.2	126.8	162.9	207.8	463.5	825.4	582.5	281.0	205.9	152.2	147.3
85°	49.8	48.8	70.2	82.9	116.1	154.2	136.6	119.0	104.4	69.3	64.4
87.5°	10.8	10.8	16.6	12.7	20.5	20.5	25.4	30.3	31.2	20.5	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)