

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: P647921

Luminaire Tested: **GALN-SA5A-835-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647921
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-SA5A-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18767.7 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

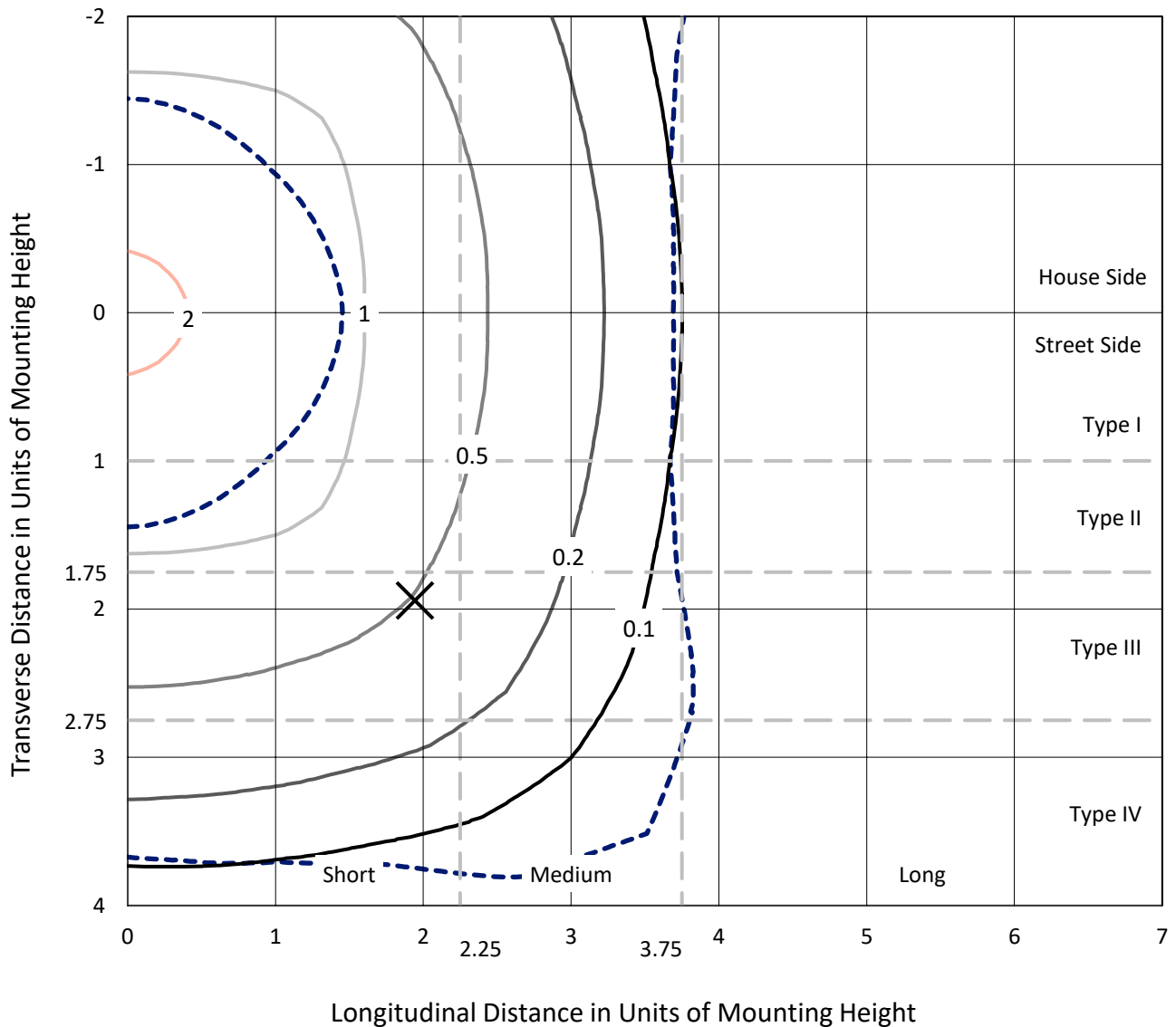
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

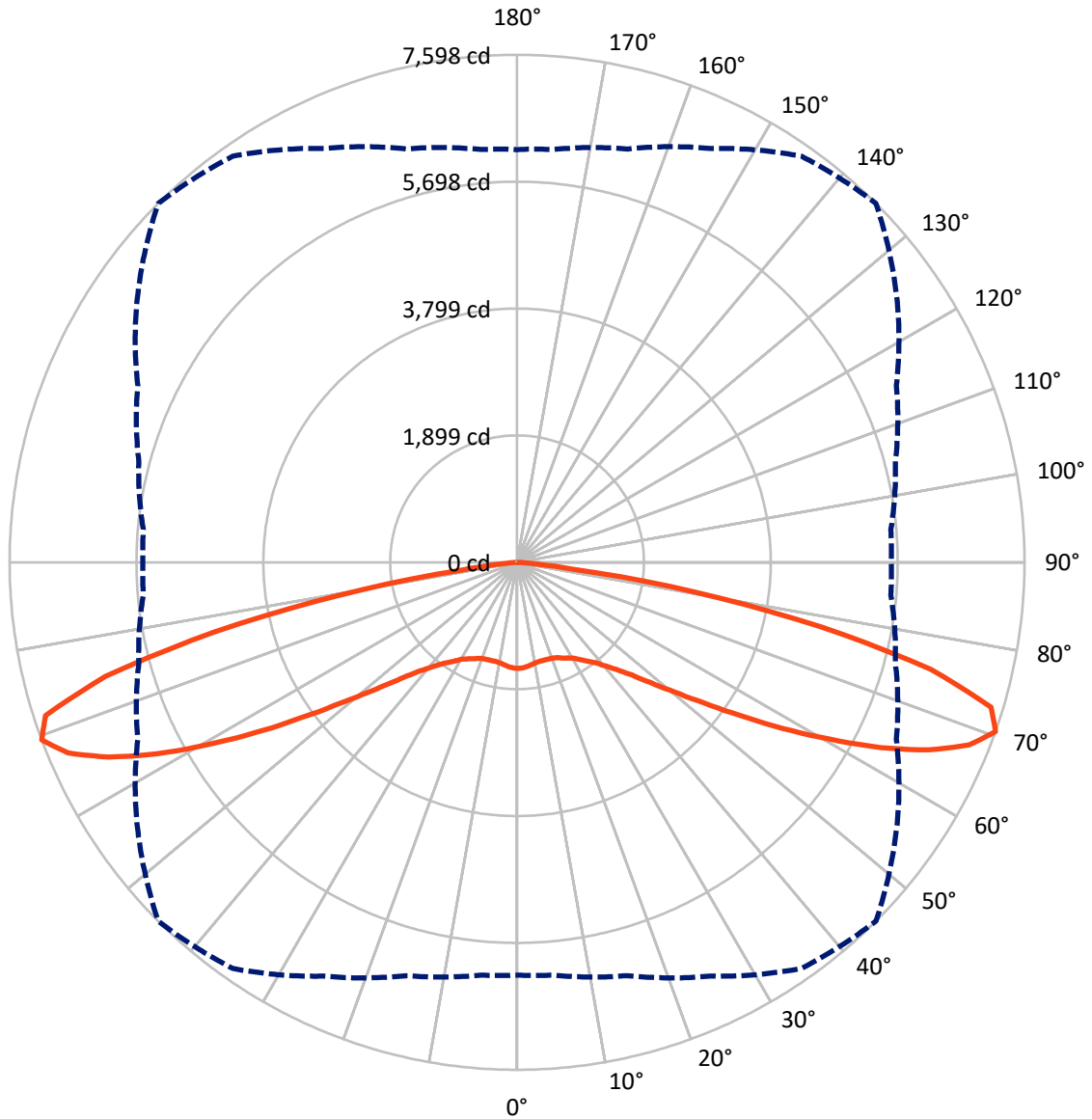
× Max cd
 - - - 1/2 Max cd



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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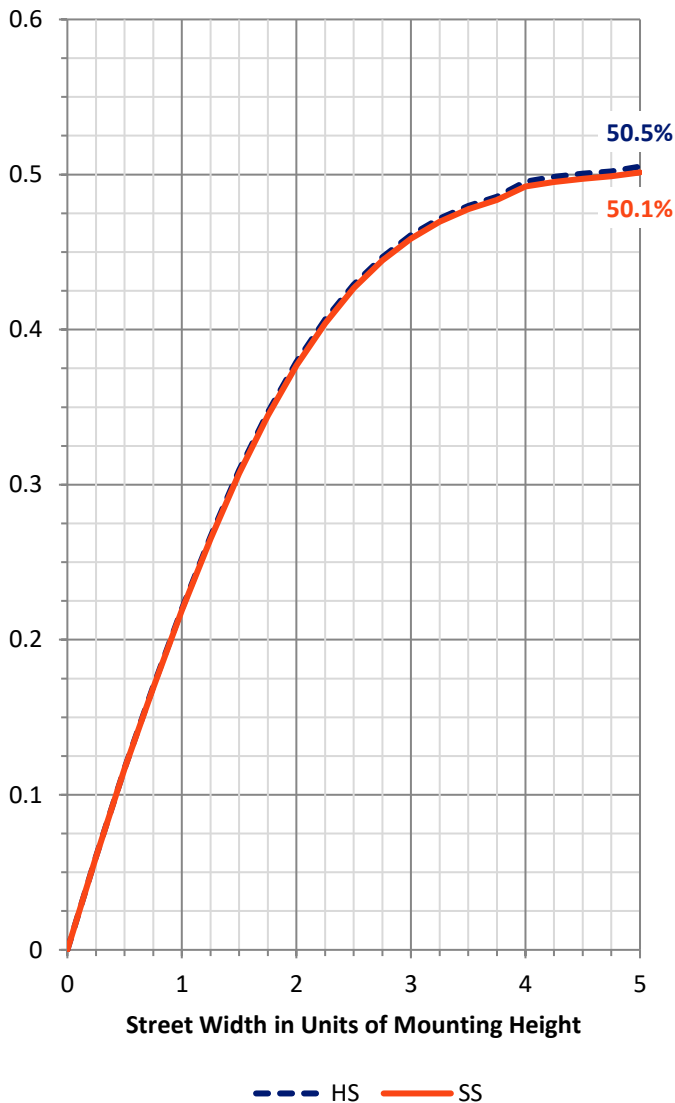
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9383.9	0.0	9383.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9383.9	0.0	9383.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	18767.7	0.0	18767.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	0.8
10°-20°	435.0	2.3
20°-30°	741.2	3.9
30°-40°	1148.8	6.1
40°-50°	1933.6	10.3
50°-60°	3518.1	18.7
60°-70°	5956.0	31.7
70°-80°	4610.2	24.6
80°-90°	276.2	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°	18767.7	100.0
0°-180°	18767.7	100.0



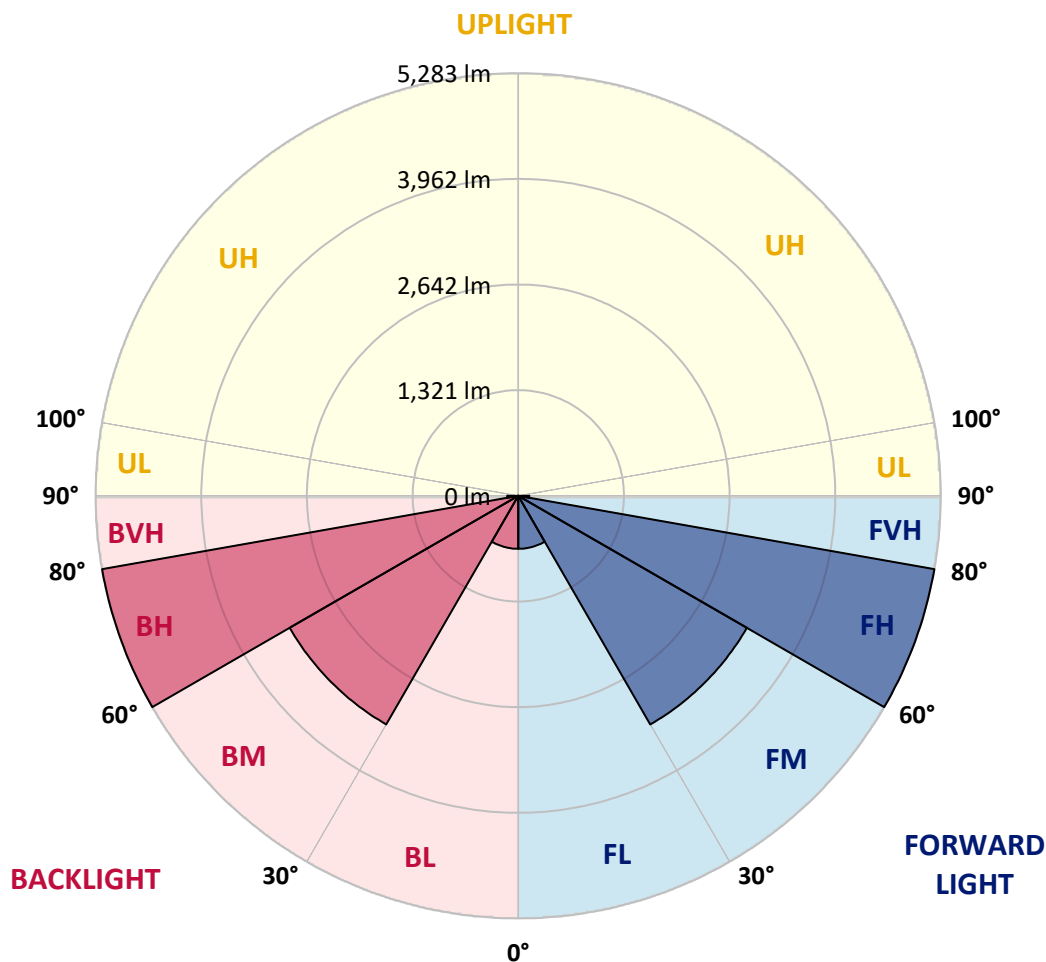
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	662.4	3.5			
FM (30°-60°)	3300.2	17.6			
FH (60°-80°)	5283.1	28.1			G3/7500
FVH (80°-90°)	138.1	0.7			G2/225
BL (0°-30°)	662.4	3.5	B2/1000		
BM (30°-60°)	3300.2	17.6	B3/5000		
BH (60°-80°)	5283.1	28.1	B5		G3/7500
BVH (80°-90°)	138.1	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°	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9
2.5°	1584.9	1586.0	1586.0	1583.9	1583.0	1583.0	1582.0	1582.0	1584.9	1586.0	1586.9
5°	1571.1	1571.1	1571.1	1570.1	1568.1	1568.1	1566.2	1566.2	1567.1	1570.1	1568.1
7.5°	1552.2	1554.3	1554.3	1550.3	1547.3	1547.3	1546.3	1547.3	1548.3	1551.3	1550.3
10°	1546.3	1547.3	1542.4	1535.4	1530.5	1527.5	1528.4	1530.5	1535.4	1537.3	1538.4
12.5°	1550.3	1550.3	1541.3	1531.4	1522.5	1518.6	1517.5	1524.5	1533.4	1539.4	1541.3
15°	1555.2	1553.2	1542.4	1529.4	1520.5	1519.6	1518.6	1523.5	1536.4	1548.3	1549.2
17.5°	1558.2	1557.2	1543.3	1527.5	1522.5	1522.5	1521.5	1525.5	1539.4	1554.3	1555.2
20°	1568.1	1565.1	1549.2	1532.4	1528.4	1530.5	1527.5	1532.4	1547.3	1565.1	1569.1
22.5°	1587.9	1584.9	1569.1	1552.2	1550.3	1550.3	1549.2	1554.3	1570.1	1588.9	1591.9
25°	1611.7	1608.8	1593.9	1582.0	1583.9	1587.9	1586.0	1586.9	1599.8	1615.6	1620.7
27.5°	1643.4	1638.5	1625.6	1615.6	1621.6	1621.6	1621.6	1620.7	1628.6	1643.4	1648.4
30°	1682.1	1680.1	1666.2	1665.2	1670.2	1665.2	1665.2	1666.2	1667.2	1681.1	1686.0
32.5°	1732.6	1728.7	1721.7	1719.8	1733.6	1737.6	1723.7	1710.9	1717.7	1731.7	1734.7
35°	1815.9	1810.0	1800.0	1789.2	1800.0	1818.9	1789.2	1779.2	1797.1	1815.9	1817.9
37.5°	1928.9	1925.9	1910.1	1890.2	1889.2	1909.1	1878.3	1877.4	1911.1	1933.9	1936.8
40°	2070.6	2073.6	2053.8	2034.9	2025.1	2040.9	2017.1	2026.0	2058.7	2084.5	2082.5
42.5°	2269.9	2259.0	2228.3	2210.4	2199.5	2193.6	2187.6	2201.5	2238.1	2265.9	2287.7
45°	2502.8	2498.9	2460.2	2438.4	2414.6	2405.7	2403.7	2428.5	2473.1	2506.8	2509.7
47.5°	2766.5	2757.6	2732.7	2710.0	2701.0	2690.2	2680.2	2699.1	2743.7	2767.4	2774.4
50°	3038.0	3040.1	3040.1	3036.1	3045.0	3047.0	3020.3	3027.2	3052.0	3049.9	3048.0
52.5°	3348.3	3359.2	3410.7	3415.8	3458.4	3487.1	3438.5	3409.8	3400.9	3347.3	3351.3
55°	3713.1	3723.0	3800.3	3877.7	3992.6	4041.2	3939.1	3849.9	3786.4	3705.2	3709.1
57.5°	4168.1	4173.0	4246.4	4395.1	4577.4	4691.4	4512.0	4335.5	4206.7	4129.4	4098.7
60°	4657.8	4662.7	4769.7	4951.1	5234.6	5373.4	5151.4	4862.9	4700.3	4582.4	4590.3
62.5°	5245.5	5265.4	5361.5	5611.3	5955.2	6110.8	5816.4	5430.9	5210.8	5064.1	5070.1
65°	5874.9	5908.6	6013.7	6288.3	6605.5	6773.0	6412.1	5967.1	5693.5	5514.1	5533.0
67.5°	6283.3	6313.0	6464.7	6768.0	7163.5	7302.3	6836.4	6318.0	5976.0	5761.9	5722.3
70°	6179.2	6204.0	6406.2	6836.4	7422.2	7597.7	6937.5	6266.4	5864.0	5617.2	5601.3
72.5°	5454.7	5403.1	5698.5	6316.0	7126.9	7421.2	6619.3	5723.3	5216.7	4963.0	4933.3
75°	3615.0	3727.0	4163.1	4890.6	6029.6	6394.3	5649.9	4595.3	3957.9	3746.8	3714.1
77.5°	1208.3	1294.5	1682.1	2772.4	4110.6	4658.7	4116.5	3005.4	2126.2	1712.8	1720.7
80°	320.2	316.2	409.4	762.3	1776.2	2698.1	2067.7	1018.0	557.0	403.4	382.6
82.5°	114.9	128.9	165.5	211.1	470.8	838.6	591.8	285.5	209.1	154.6	149.7
85°	50.6	49.6	71.3	84.3	117.9	156.6	138.7	120.9	106.1	70.4	65.5
87.5°	10.9	10.9	16.8	12.9	20.8	20.8	25.8	30.7	31.7	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)