

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: P651818

Luminaire Tested: **GALN-SA4A-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9130.7 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

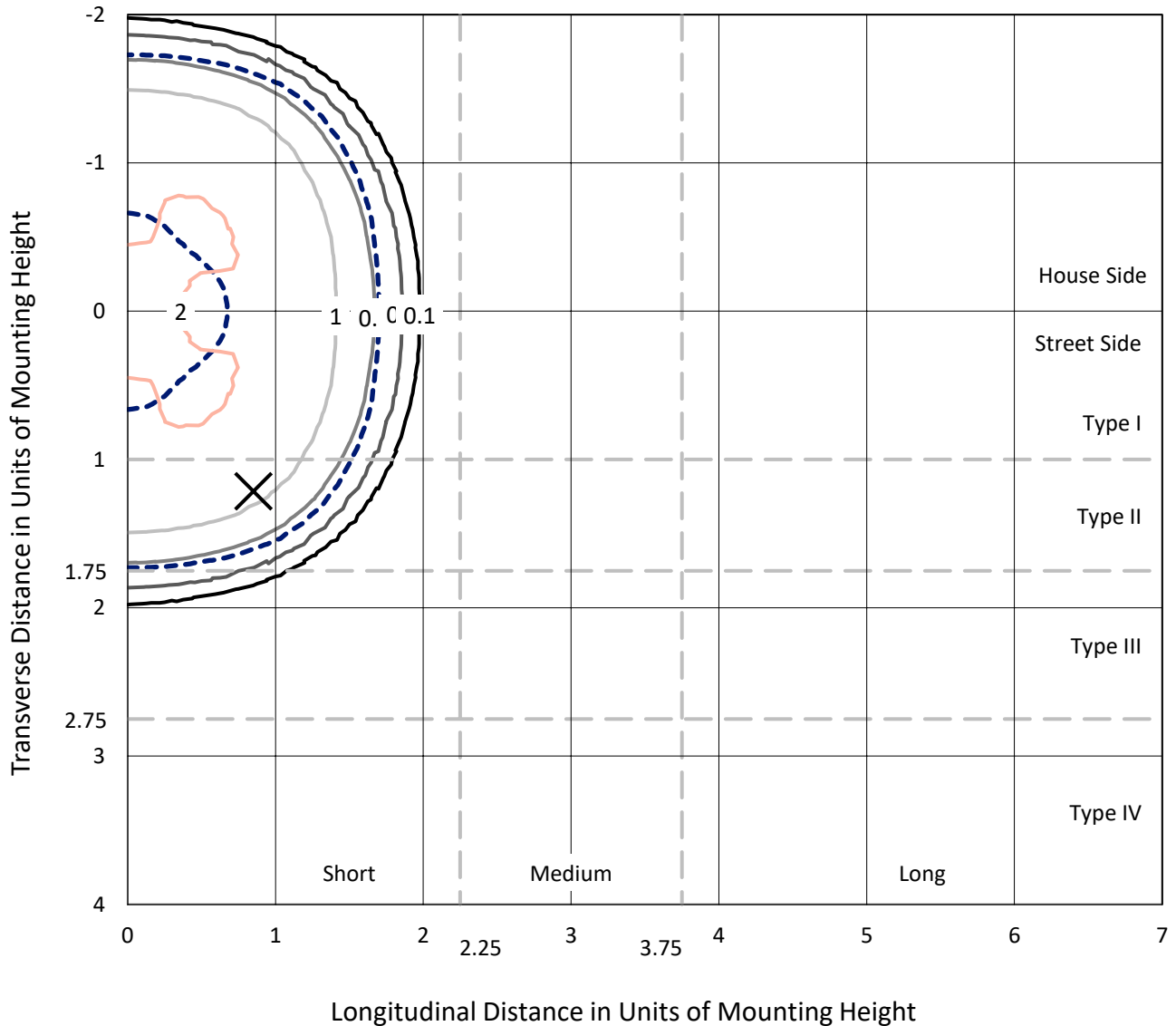
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

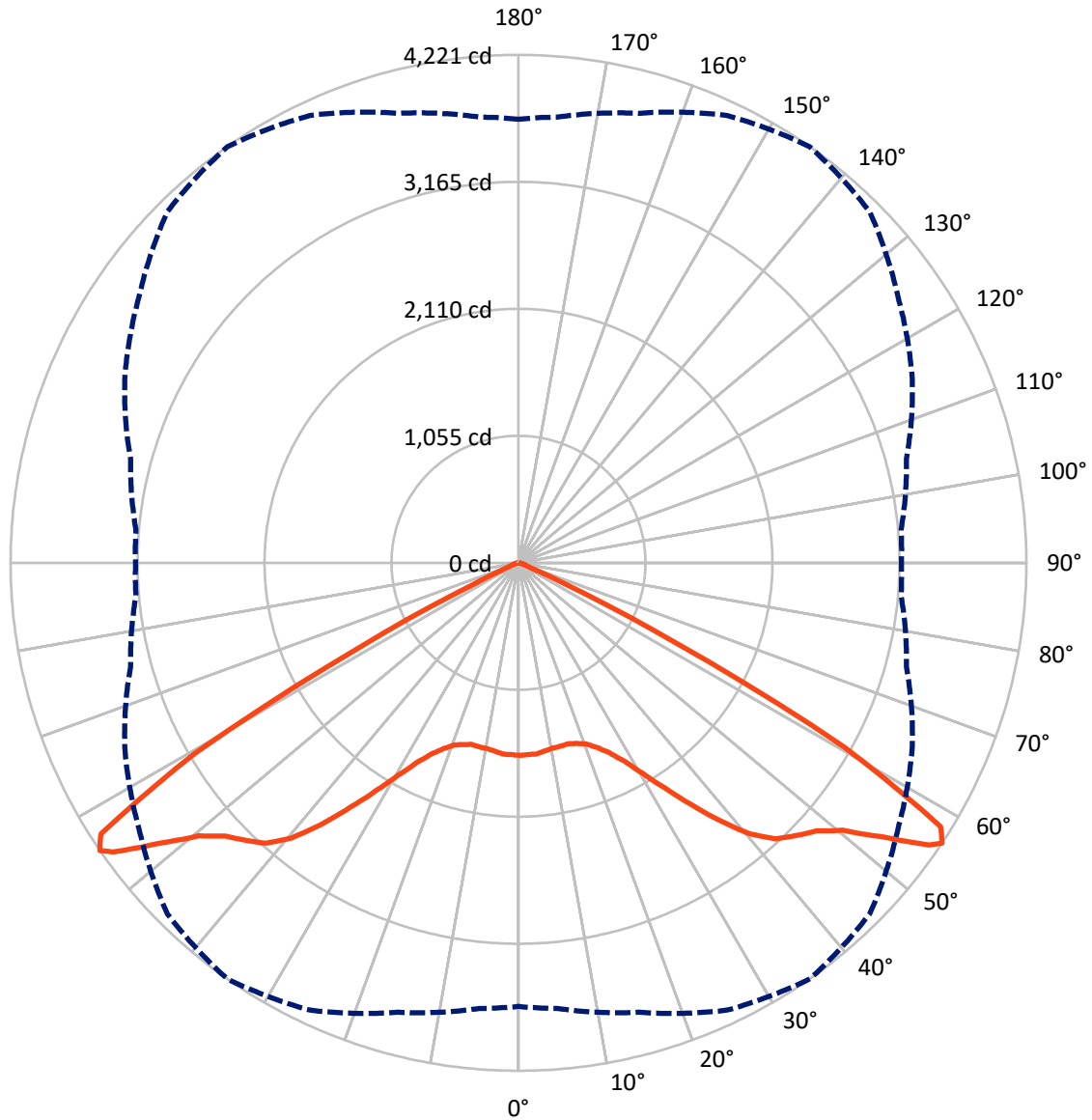
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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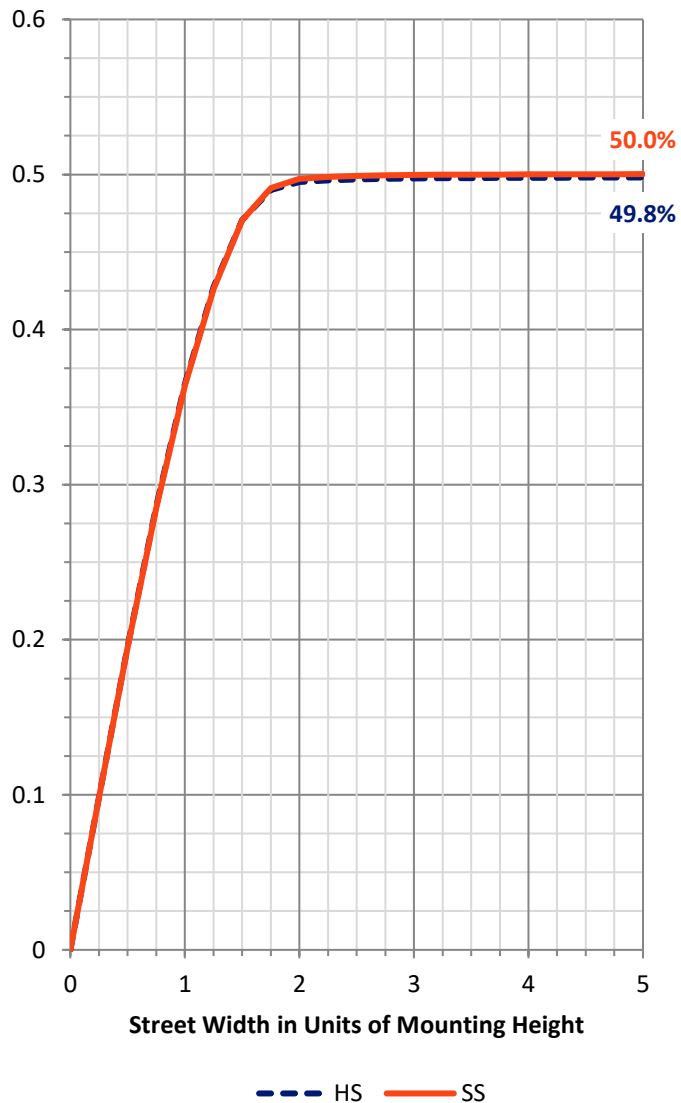
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4565.4	0.0	4565.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4565.4	0.0	4565.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	9130.7	0.0	9130.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	1.6
10°-20°	439.0	4.8
20°-30°	795.0	8.7
30°-40°	1474.1	16.1
40°-50°	2419.7	26.5
50°-60°	3117.3	34.1
60°-70°	687.0	7.5
70°-80°	39.9	0.4
80°-90°	8.4	0.1
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°	9130.7	100.0
0°-180°	9130.7	100.0

Coefficient of Utilization

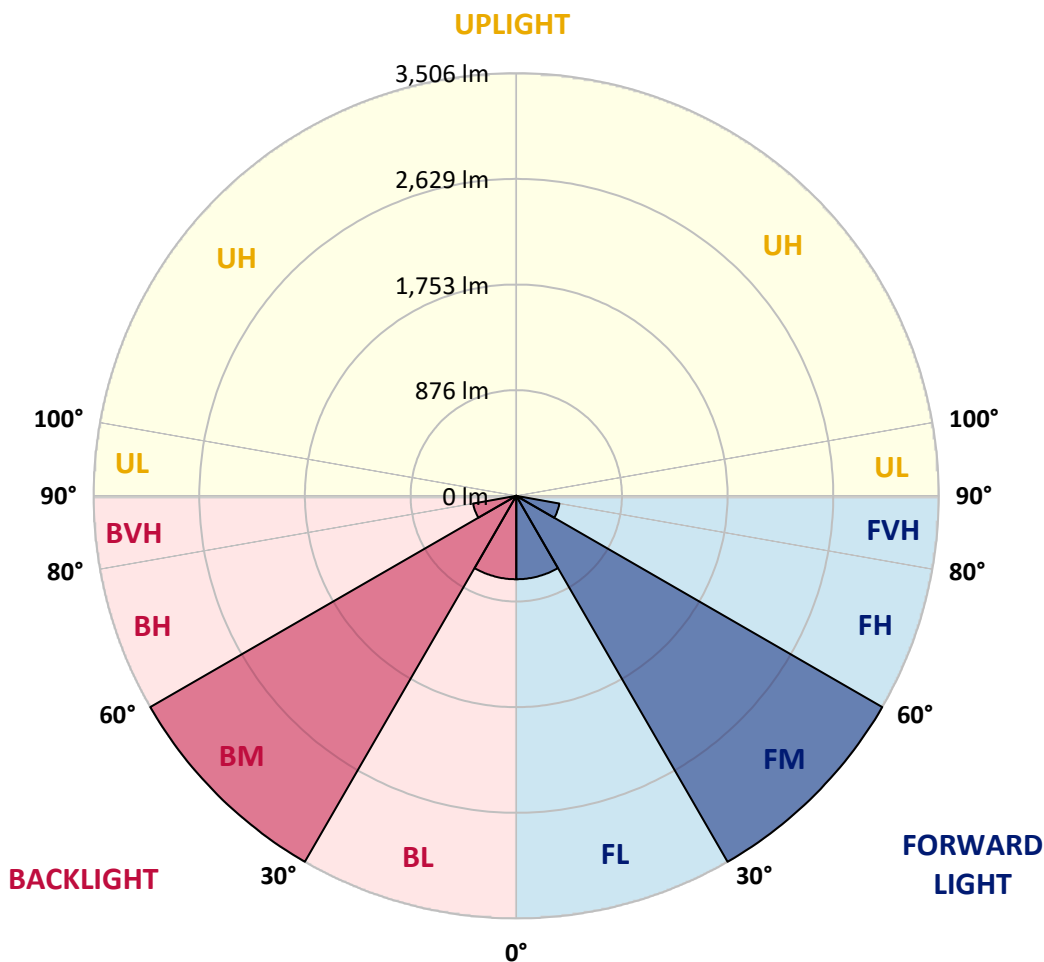


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.2	7.6			
FM (30°-60°)	3505.6	38.4			
FH (60°-80°)	363.4	4.0			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	692.2	7.6	B2/1000		
BM (30°-60°)	3505.6	38.4	B3/5000		
BH (60°-80°)	363.4	4.0	B1/500		G0/660
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9	1599.9
2.5°	1603.2	1603.2	1604.9	1606.5	1595.0	1590.0	1591.6	1588.3	1586.6	1591.6	1591.6
5°	1598.2	1598.2	1593.3	1595.0	1595.0	1580.1	1580.1	1583.4	1583.4	1573.4	1570.1
7.5°	1585.0	1581.7	1575.1	1583.4	1578.4	1578.4	1566.8	1558.5	1555.3	1561.8	1555.3
10°	1556.9	1558.5	1565.2	1568.5	1565.2	1575.1	1555.3	1543.7	1532.0	1527.1	1527.1
12.5°	1543.7	1553.6	1543.7	1551.9	1563.5	1555.3	1543.7	1535.4	1518.8	1512.2	1512.2
15°	1542.0	1548.6	1551.9	1563.5	1558.5	1561.8	1538.7	1528.8	1504.0	1492.4	1487.4
17.5°	1540.4	1548.6	1553.6	1575.1	1578.4	1580.1	1561.8	1532.0	1510.5	1499.0	1487.4
20°	1558.5	1561.8	1571.7	1593.3	1606.5	1629.7	1596.6	1565.2	1518.8	1505.6	1500.6
22.5°	1581.7	1598.2	1608.2	1631.4	1666.1	1686.0	1642.9	1603.2	1555.3	1538.7	1518.8
25°	1656.2	1652.8	1669.4	1717.4	1745.5	1760.4	1725.6	1667.7	1604.9	1585.0	1588.3
27.5°	1748.8	1752.1	1767.0	1819.9	1861.3	1884.5	1843.1	1767.0	1705.8	1672.7	1669.4
30°	1869.5	1866.3	1882.8	1954.0	2028.4	2063.1	1990.4	1901.0	1841.5	1798.5	1808.4
32.5°	1997.0	1998.6	2045.0	2109.5	2230.2	2298.1	2180.6	2071.5	1982.1	1952.3	1937.4
35°	2185.6	2193.8	2230.2	2329.6	2463.5	2551.3	2422.2	2291.5	2188.9	2134.3	2140.9
37.5°	2418.9	2410.6	2471.8	2579.3	2720.0	2784.6	2675.3	2526.4	2422.2	2385.7	2409.0
40°	2667.1	2675.3	2706.8	2804.4	2961.6	3004.6	2842.4	2761.3	2670.3	2652.2	2680.3
42.5°	2915.2	2910.3	2933.4	3021.1	3135.2	3105.5	3009.5	2961.6	2897.0	2860.7	2898.7
45°	3097.2	3089.0	3132.0	3191.5	3232.9	3176.6	3133.7	3117.1	3083.9	3044.3	3079.0
47.5°	3274.3	3267.6	3309.0	3325.6	3328.8	3254.4	3262.7	3292.4	3209.8	3127.0	3166.7
50°	3424.8	3413.2	3464.5	3500.9	3492.7	3373.5	3403.3	3373.5	3244.5	3146.9	3132.0
52.5°	3676.3	3681.2	3735.9	3802.1	3782.1	3682.9	3639.9	3504.2	3338.8	3251.1	3199.8
55°	3835.1	3810.3	3904.6	4114.8	4137.9	4035.3	3845.1	3644.9	3396.7	3289.2	3275.9
56°	3686.2	3717.6	3866.6	4101.5	4220.6	4126.3	3850.0	3610.2	3337.1	3191.5	3181.6
57.5°	3307.3	3290.8	3492.7	3813.6	4137.9	4098.2	3714.4	3362.0	3044.3	2880.5	2860.7
60°	2058.2	2106.2	2283.2	2680.3	3113.8	3133.7	2753.1	2450.3	2079.7	1934.1	1968.9
62.5°	805.8	764.4	875.2	1171.3	1469.2	1535.4	1391.4	1156.5	949.7	805.8	795.8
65°	187.0	182.0	205.1	282.9	395.4	458.3	435.1	312.7	230.0	218.4	201.8
67.5°	105.9	105.9	100.9	100.9	110.8	117.5	112.5	110.8	115.8	120.8	119.1
70°	74.4	72.8	69.5	71.1	67.9	67.9	72.8	81.1	87.7	87.7	89.3
72.5°	44.7	44.7	44.7	49.6	49.6	49.6	54.6	61.2	62.9	61.2	59.5
75°	19.8	19.8	23.1	28.1	31.5	33.1	38.0	41.4	44.7	41.4	38.0
77.5°	5.0	5.0	8.2	11.6	14.9	18.2	24.8	29.8	31.5	29.8	24.8
80°	1.7	1.7	3.3	8.2	14.9	18.2	24.8	26.5	28.1	24.8	19.8
82.5°	1.7	1.7	3.3	8.2	11.6	14.9	19.8	23.1	24.8	21.5	19.8
85°	0.0	1.7	3.3	6.6	9.9	13.2	13.2	9.9	8.2	5.0	6.6
87.5°	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)