

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: P458659

Luminaire Tested: **GALN-SA2B-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11124 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

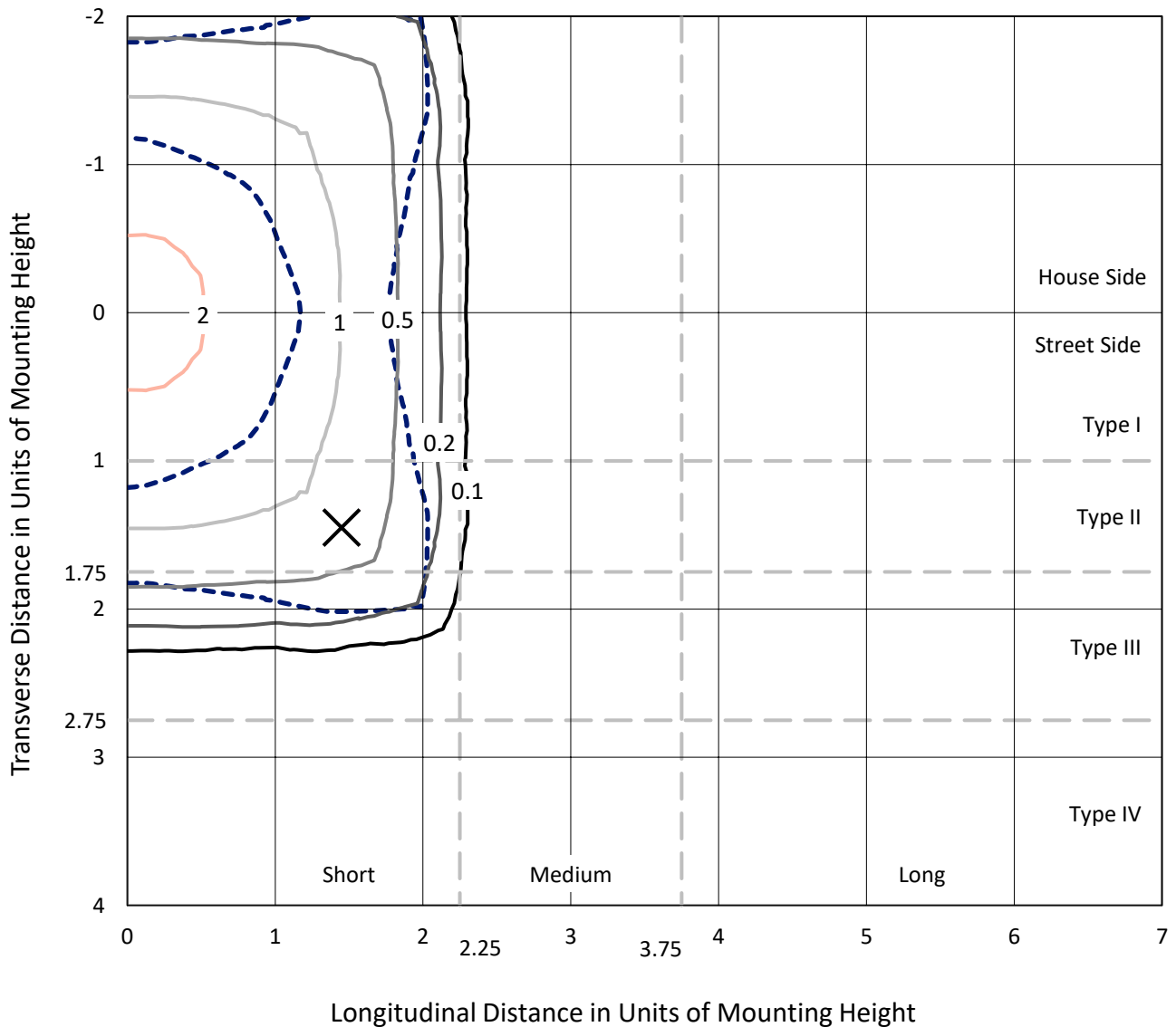
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

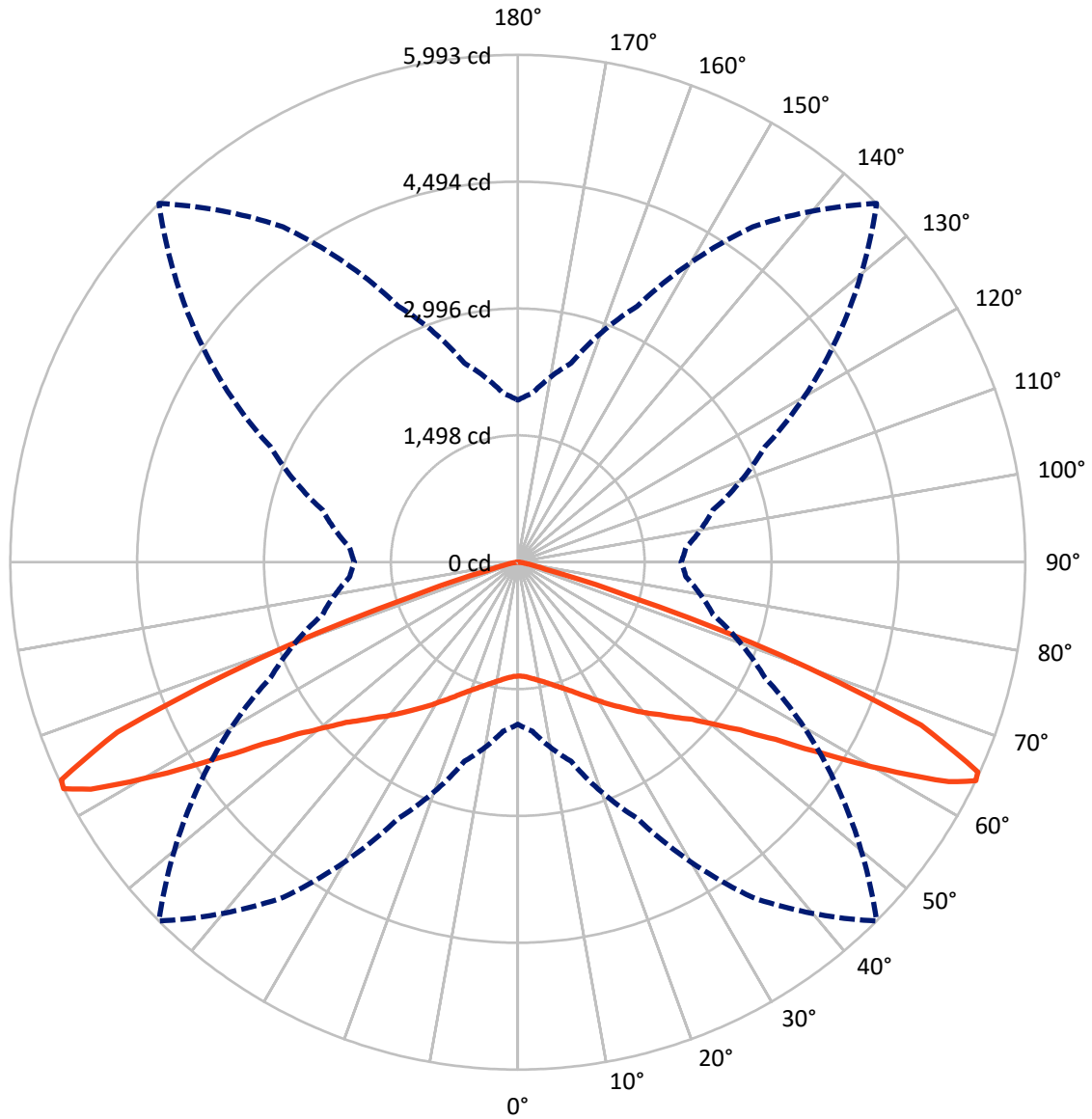
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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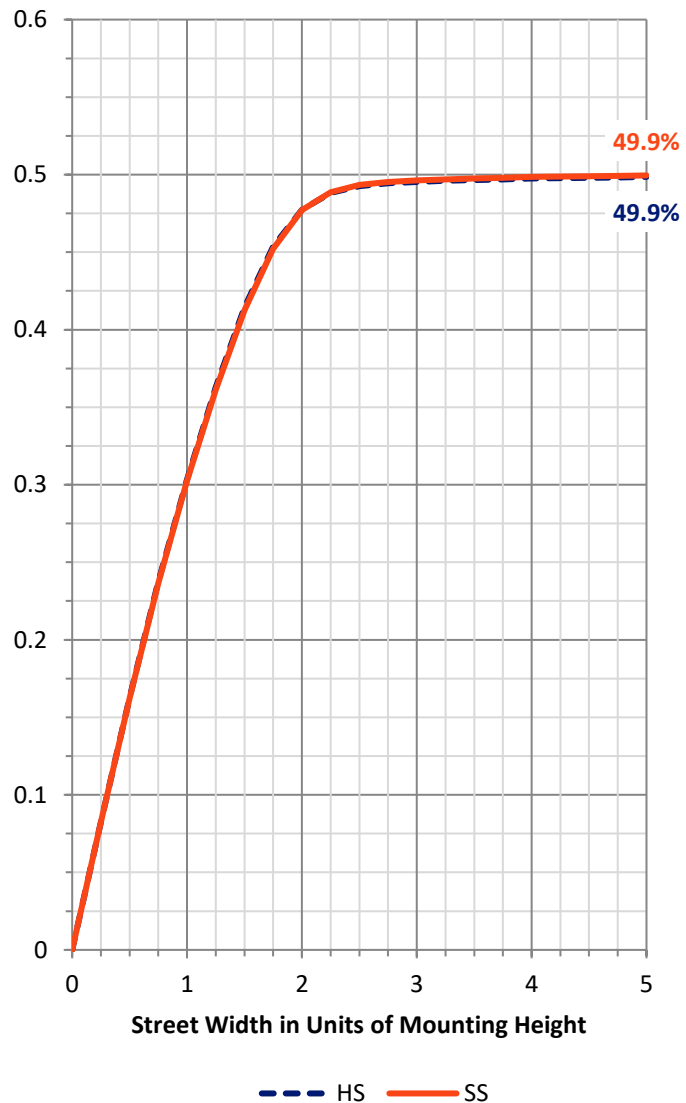
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5562.0	0.0	5562.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5562.0	0.0	5562.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11124.0	0.0	11124.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	1.2
10°-20°	426.1	3.8
20°-30°	805.2	7.2
30°-40°	1333.4	12.0
40°-50°	2081.7	18.7
50°-60°	3218.3	28.9
60°-70°	2775.1	24.9
70°-80°	314.5	2.8
80°-90°	37.7	0.3
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°	11124.0	100.0
0°-180°	11124.0	100.0



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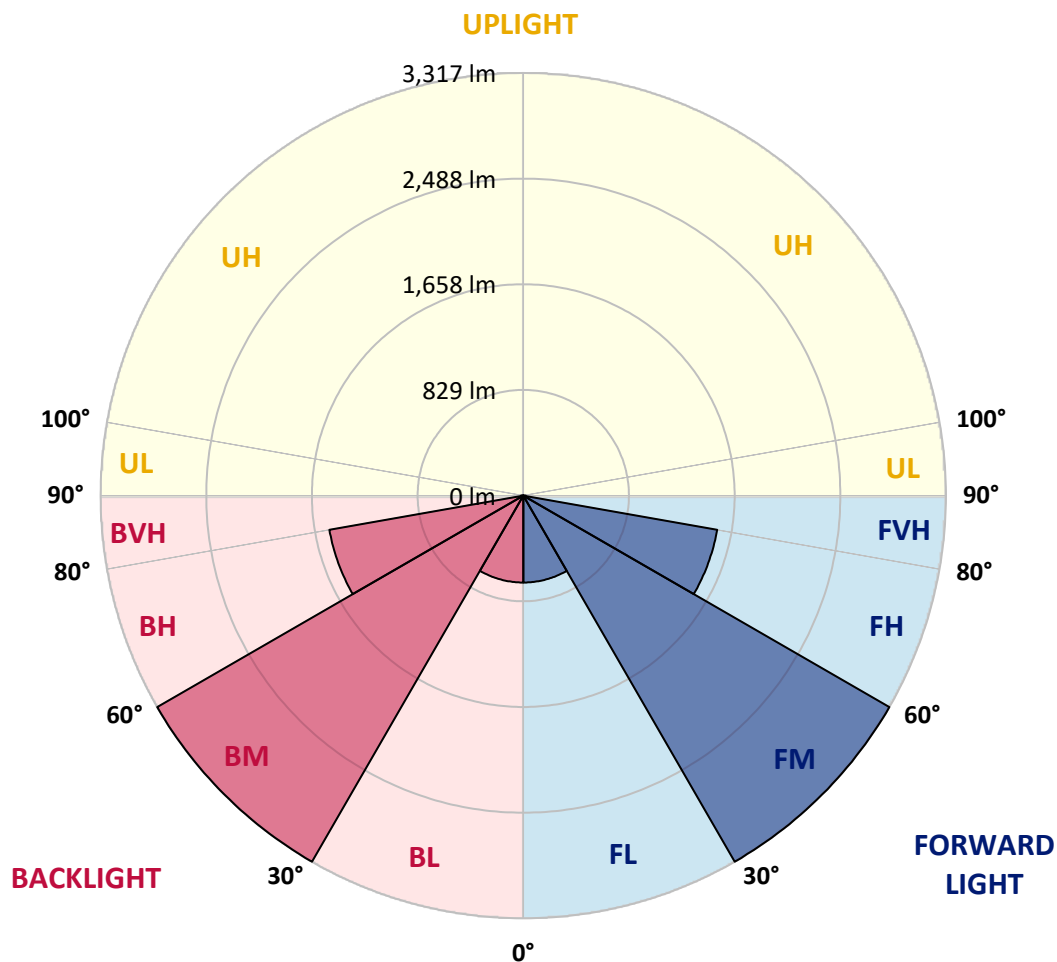
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	681.7	6.1			
FM	(30°-60°)	3316.7	29.8			
FH	(60°-80°)	1544.8	13.9			G1/1800
FVH	(80°-90°)	18.8	0.2			G1/100
BL	(0°-30°)	681.7	6.1	B2/1000		
BM	(30°-60°)	3316.7	29.8	B3/5000		
BH	(60°-80°)	1544.8	13.9	B3/2500		G1/1800
BVH	(80°-90°)	18.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1344.5	1344.5	1344.5	1344.5	1344.5	1344.5	1344.5	1344.5	1344.5	1344.5	1344.5
2.5°	1349.8	1352.8	1350.4	1349.8	1349.2	1349.2	1349.2	1349.8	1352.2	1353.9	1352.8
5°	1366.9	1369.3	1368.1	1367.5	1366.9	1367.5	1366.3	1365.7	1367.5	1367.5	1366.9
7.5°	1388.1	1391.1	1389.9	1391.1	1391.7	1392.2	1389.3	1386.9	1386.4	1388.1	1386.9
10°	1417.0	1419.3	1419.9	1420.5	1421.7	1421.1	1417.6	1413.5	1412.9	1412.3	1411.7
12.5°	1449.4	1451.2	1451.8	1454.1	1455.9	1456.5	1452.3	1448.8	1442.9	1444.1	1441.7
15°	1485.9	1489.5	1488.9	1492.4	1497.1	1498.3	1494.2	1488.3	1483.0	1480.0	1478.3
17.5°	1530.7	1533.1	1531.9	1535.4	1541.3	1544.3	1540.7	1533.1	1527.8	1521.3	1517.7
20°	1583.7	1587.9	1589.0	1589.0	1594.3	1597.3	1592.0	1589.6	1581.4	1576.7	1573.7
22.5°	1643.8	1645.6	1649.1	1652.7	1658.0	1656.8	1655.0	1651.5	1643.8	1639.7	1635.0
25°	1711.6	1713.4	1722.2	1729.9	1731.6	1730.4	1728.1	1726.3	1719.2	1709.8	1706.3
27.5°	1790.5	1794.1	1805.9	1812.9	1812.9	1813.5	1808.8	1814.7	1799.4	1788.2	1787.0
30°	1889.5	1891.9	1901.9	1909.0	1905.4	1902.5	1901.3	1907.2	1890.7	1870.7	1866.0
32.5°	1987.3	1995.6	2004.4	2019.7	2007.4	2002.1	2000.9	2005.0	1986.1	1963.8	1957.3
35°	2092.2	2098.1	2114.6	2127.6	2116.4	2104.0	2109.3	2122.2	2099.9	2069.8	2068.6
37.5°	2208.3	2213.6	2234.8	2248.3	2240.1	2218.9	2227.7	2243.0	2220.6	2183.5	2175.9
40°	2329.1	2340.2	2366.8	2380.9	2367.3	2339.1	2355.6	2372.1	2352.0	2309.0	2291.9
42.5°	2464.6	2482.2	2520.5	2527.6	2501.7	2463.4	2492.3	2518.8	2504.6	2455.1	2448.7
45°	2623.1	2633.7	2680.8	2696.1	2660.2	2612.5	2648.4	2696.7	2686.1	2628.9	2616.6
47.5°	2800.4	2810.4	2859.3	2882.3	2836.9	2772.7	2837.5	2900.6	2894.1	2832.8	2826.9
50°	3010.2	3012.5	3080.3	3106.2	3060.8	3005.4	3063.2	3141.5	3115.6	3037.3	3036.1
52.5°	3239.9	3242.9	3328.3	3378.4	3353.1	3290.6	3358.9	3406.7	3340.7	3238.2	3230.5
55°	3439.1	3453.8	3570.5	3703.6	3738.4	3693.0	3713.6	3691.3	3528.6	3384.9	3362.5
57.5°	3520.4	3549.3	3726.6	3975.2	4201.5	4268.7	4109.6	3896.3	3603.5	3400.2	3378.4
60°	3321.8	3353.1	3628.2	4100.1	4677.5	4969.2	4522.0	3931.0	3433.2	3147.4	3113.3
62.5°	2660.2	2669.0	3073.8	3806.1	4955.1	5710.4	4695.8	3634.7	2937.7	2549.4	2535.9
64°	1914.3	2005.0	2433.9	3337.1	4833.7	5992.6	4595.7	3219.3	2386.2	1993.2	1929.6
65°	1431.7	1456.5	1962.0	2849.9	4619.8	5971.4	4401.2	2822.2	1976.1	1525.4	1454.7
67.5°	540.9	543.8	724.1	1420.5	3288.8	5137.7	3358.9	1535.4	832.5	602.1	580.3
70°	224.5	228.6	265.7	477.8	1413.5	3298.9	1619.7	553.8	304.6	246.9	243.3
72.5°	164.4	166.7	177.9	212.1	434.8	1354.5	532.6	235.1	178.5	159.7	157.9
75°	129.0	130.2	138.5	156.1	202.7	375.3	221.5	161.4	136.1	122.6	121.4
77.5°	98.4	101.3	107.2	119.0	136.1	177.9	146.7	120.8	104.9	93.7	91.9
80°	67.8	71.3	82.5	87.2	91.3	115.5	100.2	91.3	81.9	68.3	64.2
82.5°	41.8	44.2	55.4	59.5	57.7	64.8	64.2	65.4	58.3	42.4	39.5
85°	21.8	23.0	30.0	31.2	28.9	26.5	33.0	38.3	35.9	24.2	23.6
87.5°	4.7	5.3	6.5	5.9	6.5	6.5	8.2	12.4	13.0	8.2	7.7
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)