

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: P946993

Luminaire Tested: **GALN-SB2C-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14548 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 100.9
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



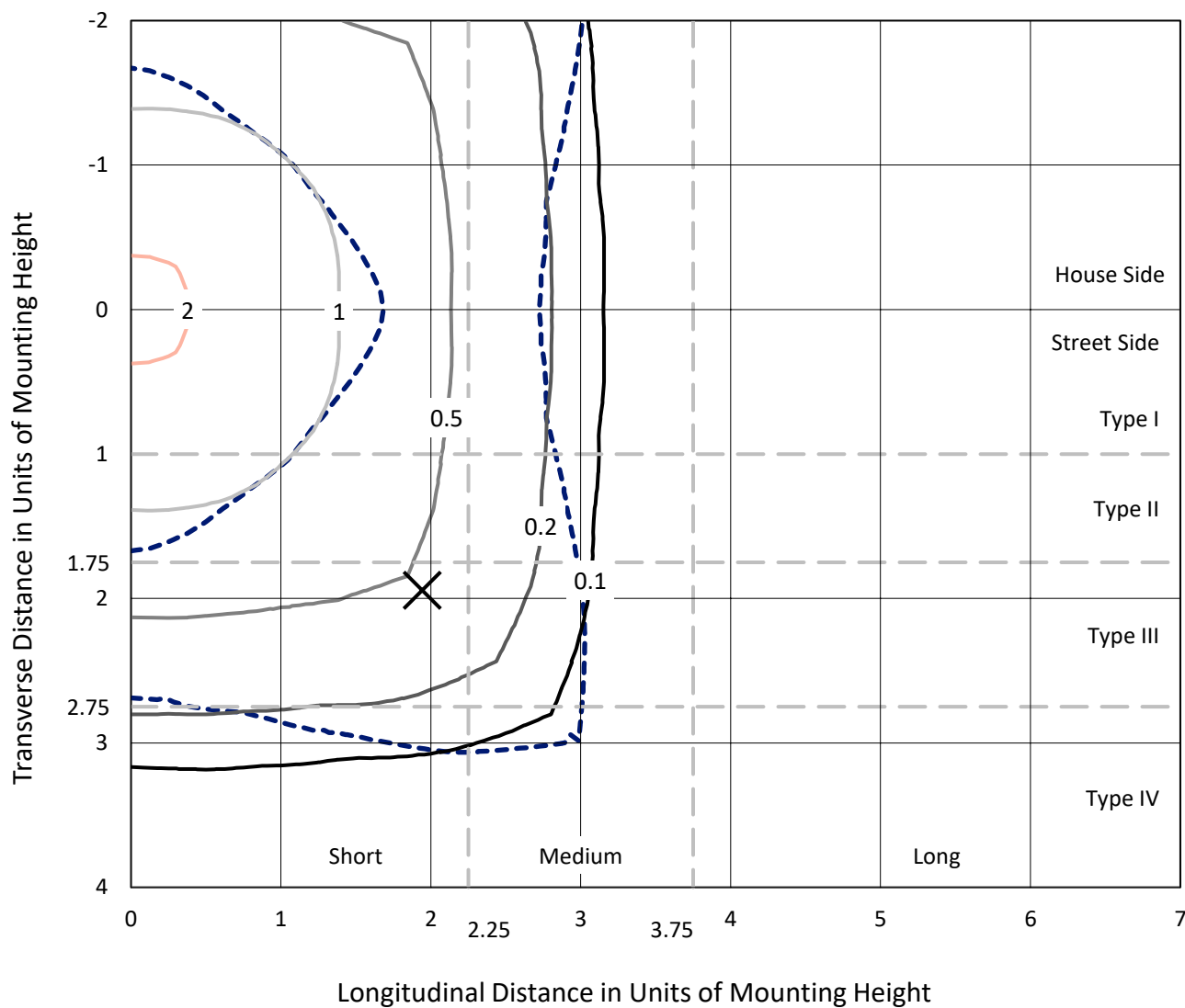
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

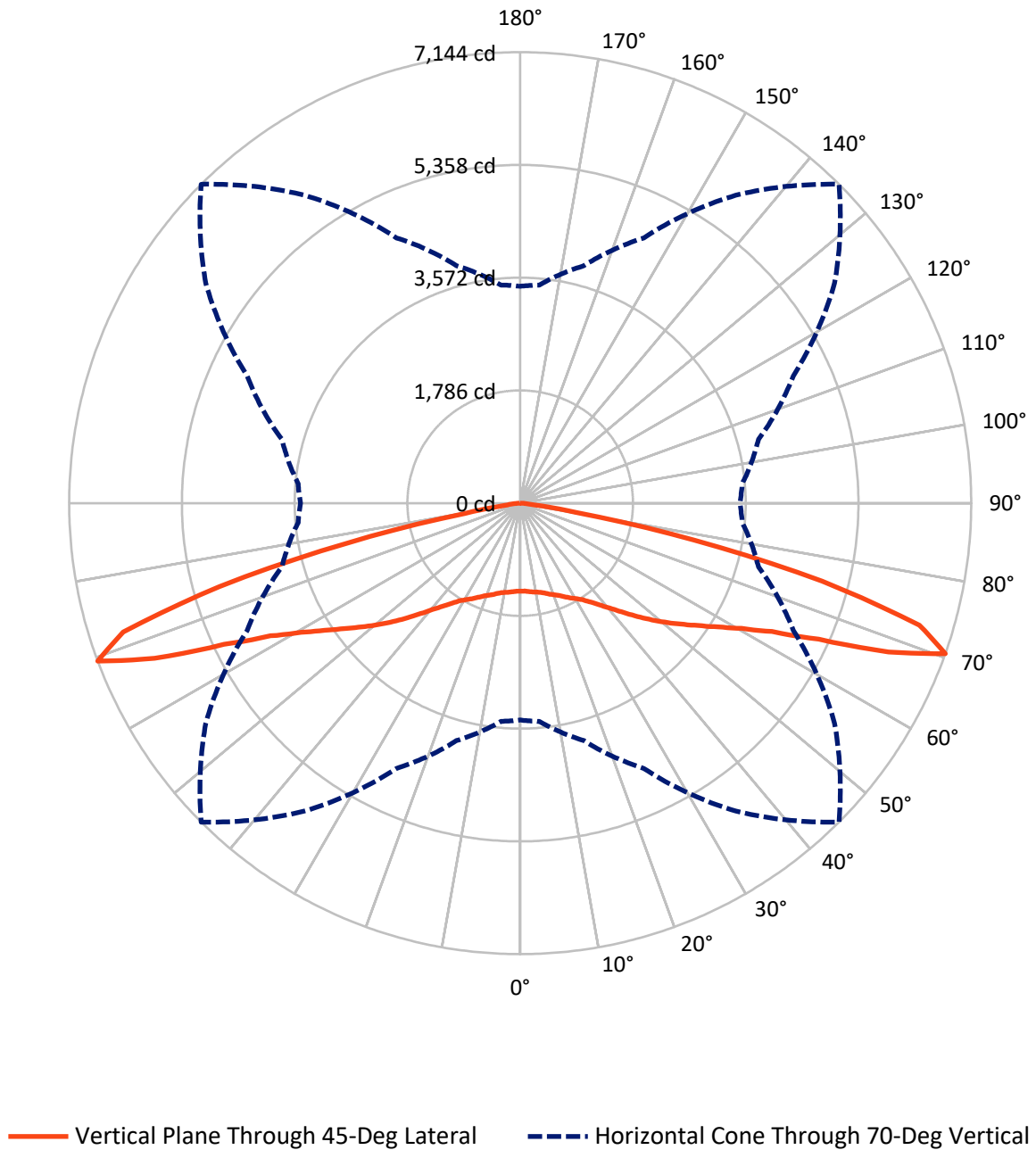


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7274.0	0.0	7274.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7274.0	0.0	7274.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14548.0	0.0	14548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	0.9
10°-20°	419.8	2.9
20°-30°	750.2	5.2
30°-40°	1216.1	8.4
40°-50°	1980.9	13.6
50°-60°	3020.2	20.8
60°-70°	4493.1	30.9
70°-80°	2448.9	16.8
80°-90°	83.4	0.6
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°	14548.0	100.0
0°-180°	14548.0	100.0

Coefficient of Utilization



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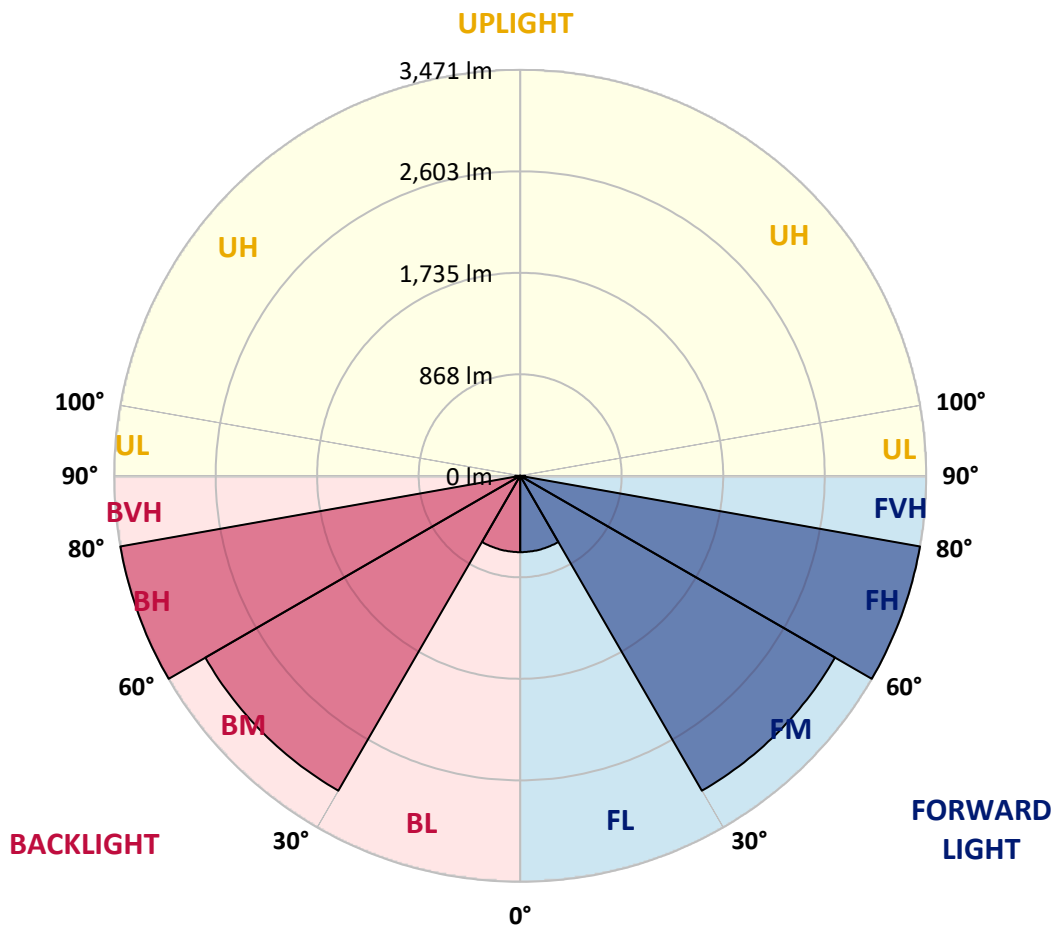
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	652.7	4.5			
FM	(30°-60°)	3108.6	21.4			
FH	(60°-80°)	3471.0	23.9			G2/5000
FVH	(80°-90°)	41.7	0.3			G1/100
BL	(0°-30°)	652.7	4.5	B2/1000		
BM	(30°-60°)	3108.6	21.4	B3/5000		
BH	(60°-80°)	3471.0	23.9	B4/5000		G2/5000
BVH	(80°-90°)	41.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1393.5	1393.5	1393.5	1393.5	1393.5	1393.5	1393.5	1393.5	1393.5	1393.5	1393.5
2.5°	1400.1	1401.6	1398.7	1397.2	1395.7	1393.5	1394.3	1397.9	1400.9	1400.1	1400.9
5°	1411.8	1413.3	1411.1	1410.3	1407.4	1406.7	1406.7	1410.3	1412.5	1411.1	1411.8
7.5°	1425.0	1427.1	1423.5	1422.8	1421.3	1419.8	1419.1	1422.8	1425.0	1425.0	1425.0
10°	1437.4	1439.6	1436.6	1434.4	1433.0	1433.0	1431.5	1434.4	1438.1	1437.4	1437.4
12.5°	1450.5	1452.0	1449.1	1447.6	1447.6	1449.8	1447.6	1449.1	1452.0	1450.5	1449.8
15°	1466.6	1467.3	1466.6	1468.8	1472.4	1479.7	1473.2	1471.7	1473.2	1469.5	1469.5
17.5°	1488.5	1490.0	1492.9	1498.0	1503.1	1516.3	1504.6	1500.9	1500.9	1493.6	1493.6
20°	1515.5	1517.7	1522.1	1530.9	1537.4	1549.8	1538.2	1533.0	1530.9	1521.4	1521.4
22.5°	1544.0	1547.7	1554.2	1565.9	1577.6	1589.3	1577.6	1568.8	1562.3	1549.8	1549.1
25°	1576.9	1581.3	1591.5	1610.5	1626.5	1643.3	1629.5	1611.9	1598.8	1581.3	1580.5
27.5°	1623.6	1628.7	1641.1	1664.5	1685.0	1699.6	1686.4	1663.8	1645.5	1624.3	1623.6
30°	1689.3	1694.5	1709.1	1733.9	1747.8	1757.3	1748.5	1731.0	1709.1	1685.0	1685.0
32.5°	1774.1	1780.6	1796.7	1820.1	1823.0	1824.5	1821.5	1812.8	1796.7	1767.5	1768.2
35°	1881.4	1888.7	1907.0	1926.0	1923.1	1926.0	1921.6	1918.7	1907.0	1873.4	1873.4
37.5°	2012.9	2021.7	2040.7	2055.3	2048.0	2044.3	2045.0	2045.8	2039.2	2001.9	2001.9
40°	2165.5	2177.2	2191.1	2206.5	2194.0	2183.1	2190.4	2196.2	2190.4	2152.4	2152.4
42.5°	2322.6	2339.4	2354.0	2375.9	2365.7	2351.8	2362.0	2368.6	2356.2	2315.3	2318.2
45°	2497.1	2513.2	2532.2	2565.1	2557.8	2543.2	2557.8	2559.2	2538.0	2489.8	2494.9
47.5°	2677.5	2694.3	2722.8	2766.6	2763.7	2747.7	2766.6	2756.4	2729.4	2671.7	2668.0
50°	2848.4	2871.8	2915.6	2977.0	2982.8	2963.1	2988.7	2969.0	2923.7	2851.4	2849.9
52.5°	3009.1	3034.0	3103.3	3186.6	3207.8	3182.2	3216.6	3182.2	3114.3	3021.5	3012.8
55°	3177.8	3205.6	3288.1	3397.0	3439.3	3420.3	3452.5	3400.6	3304.2	3191.7	3176.4
57.5°	3376.5	3393.3	3491.9	3621.2	3692.8	3697.1	3711.7	3624.1	3507.2	3379.4	3361.9
60°	3592.0	3615.3	3722.7	3877.5	3990.7	4027.3	4011.9	3881.9	3746.1	3599.3	3575.9
62.5°	3868.0	3893.6	4022.2	4207.7	4386.6	4477.2	4417.3	4228.8	4060.9	3884.8	3854.2
65°	4096.7	4125.1	4357.4	4688.3	5014.0	5195.9	5045.4	4698.5	4396.1	4147.8	4106.9
67.5°	3930.9	3965.9	4330.4	4938.0	5748.0	6290.7	5775.8	5012.5	4420.2	4083.5	4033.1
70°	3435.7	3468.5	3893.6	4636.4	5954.7	7143.8	6078.9	4773.0	3907.5	3530.6	3480.2
72.5°	2280.9	2386.9	2817.0	3708.1	5317.1	6610.6	5369.7	3632.9	2613.3	2275.8	2202.1
75°	756.7	841.4	1135.0	1922.3	3561.3	4943.9	3390.4	1701.0	899.1	647.1	612.1
77.5°	190.6	219.8	303.1	550.0	1420.6	2814.8	1278.9	449.2	244.7	170.9	152.6
80°	92.8	102.3	146.1	183.3	355.7	894.7	333.8	172.4	115.4	89.1	81.8
82.5°	51.1	51.9	82.5	103.7	132.2	231.5	137.3	100.8	66.5	54.0	54.0
85°	31.4	30.7	43.8	55.5	55.5	82.5	65.7	55.5	38.0	33.6	35.1
87.5°	12.4	12.4	16.1	17.5	15.3	21.2	16.8	18.3	14.6	13.9	14.6
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)