

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: P939760

Luminaire Tested: **GALN-SB2C-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2C-735-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15149 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

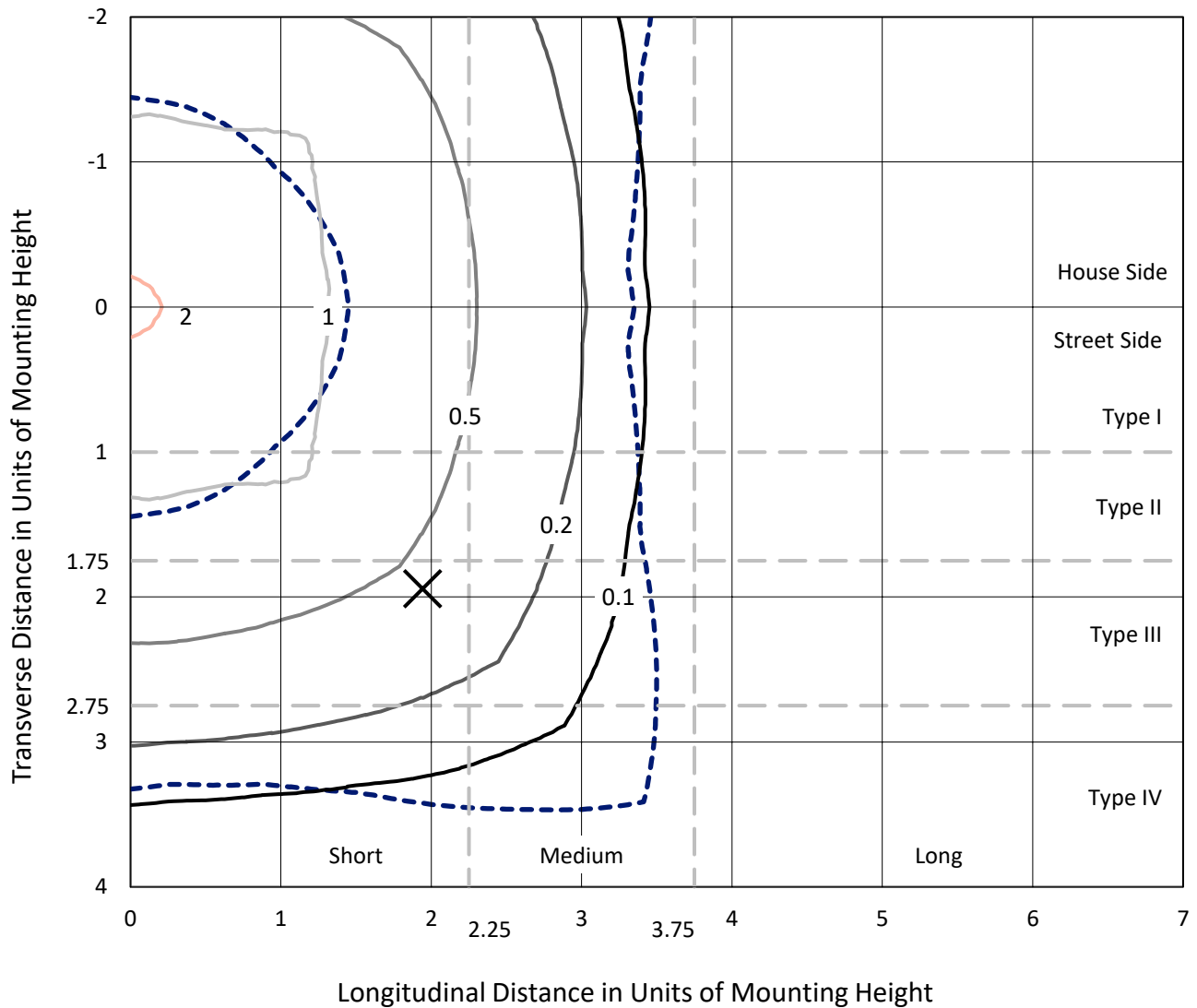
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

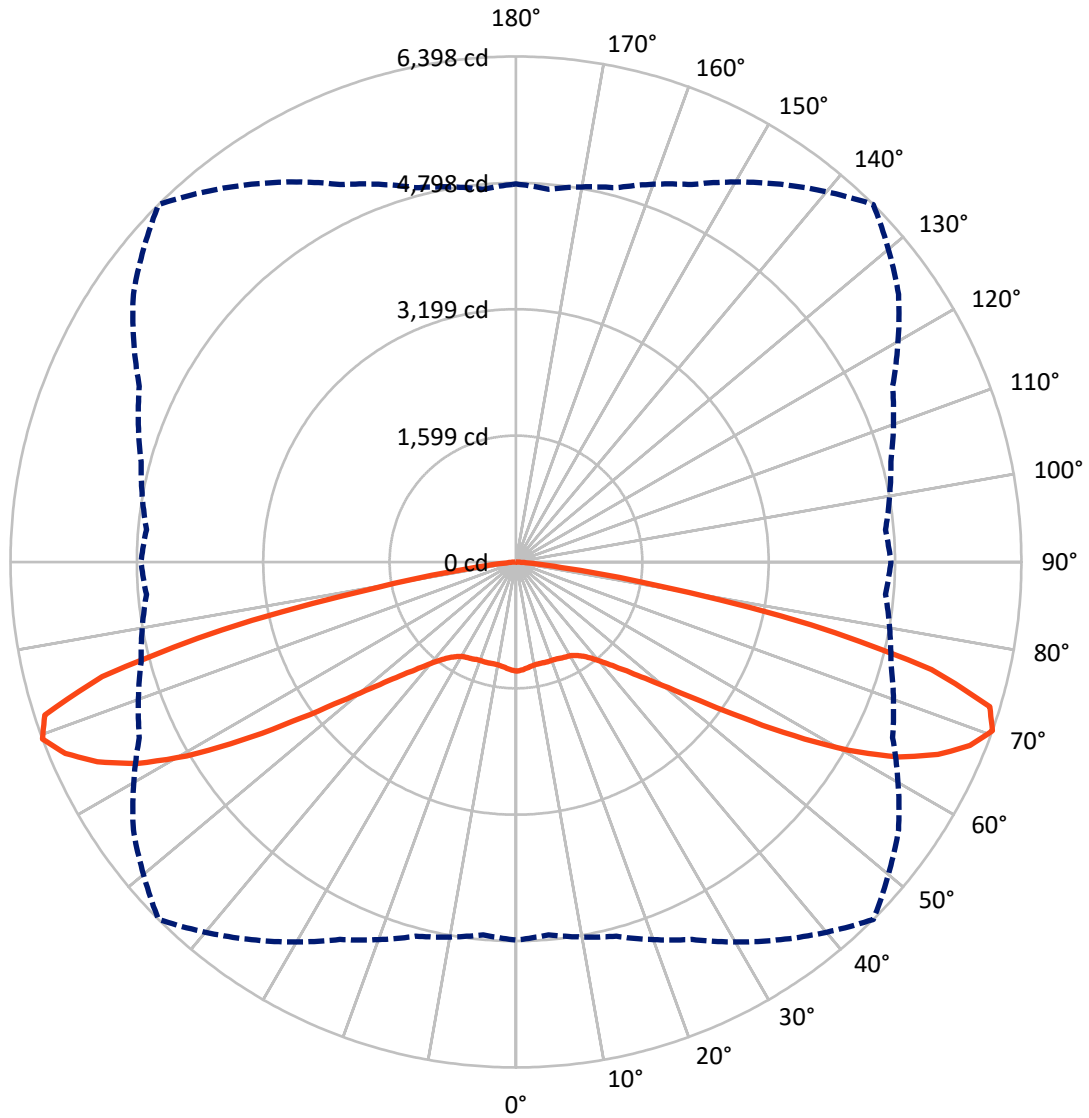
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7574.5	0.0	7574.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7574.5	0.0	7574.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15149.0	0.0	15149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	0.8
10°-20°	377.5	2.5
20°-30°	628.1	4.1
30°-40°	949.9	6.3
40°-50°	1578.6	10.4
50°-60°	2978.7	19.7
60°-70°	5029.6	33.2
70°-80°	3305.0	21.8
80°-90°	173.1	1.1
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°	15149.0	100.0
0°-180°	15149.0	100.0

Coefficient of Utilization



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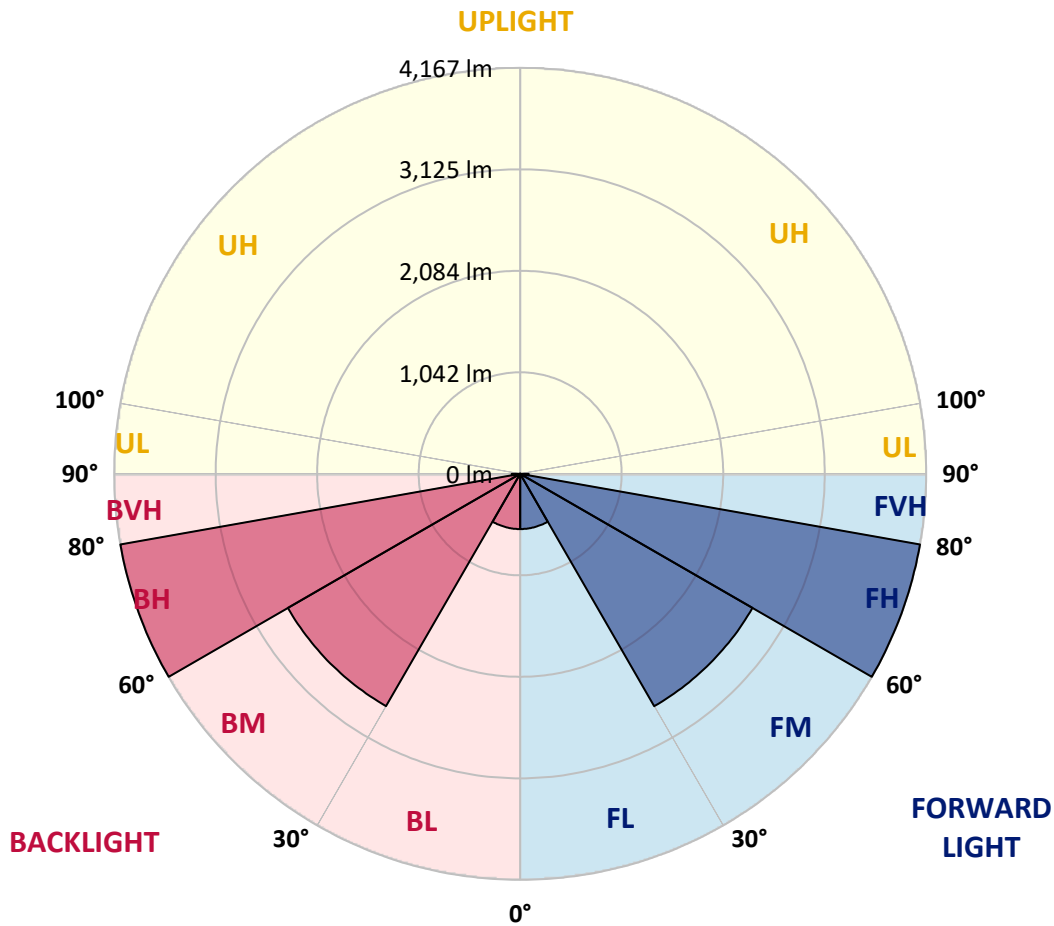
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.1	3.7			
FM (30°-60°)	2753.6	18.2			
FH (60°-80°)	4167.3	27.5			G2/5000
FVH (80°-90°)	86.6	0.6			G1/100
BL (0°-30°)	567.1	3.7	B2/1000		
BM (30°-60°)	2753.6	18.2	B3/5000		
BH (60°-80°)	4167.3	27.5	B4/5000		G2/5000
BVH (80°-90°)	86.6	0.6			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°
0°	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9
2.5°	1373.2	1377.2	1375.6	1372.4	1372.4	1370.1	1372.4	1374.0	1376.4	1378.0
5°	1355.1	1358.3	1357.5	1355.1	1355.9	1353.5	1355.1	1357.5	1359.1	1359.8
7.5°	1339.4	1342.5	1340.9	1337.0	1337.0	1334.6	1335.4	1337.8	1340.2	1340.9
10°	1335.4	1338.6	1333.9	1327.6	1325.2	1322.1	1322.8	1325.2	1329.9	1332.3
12.5°	1337.0	1339.4	1334.6	1325.2	1322.8	1319.7	1319.7	1322.1	1328.4	1331.5
15°	1341.7	1344.1	1337.0	1326.8	1324.4	1322.1	1321.3	1324.4	1331.5	1337.0
17.5°	1350.4	1352.8	1341.7	1327.6	1324.4	1325.2	1324.4	1326.8	1337.8	1348.0
20°	1358.3	1359.8	1344.9	1327.6	1324.4	1325.2	1324.4	1329.1	1343.3	1357.5
22.5°	1360.6	1362.2	1348.0	1333.1	1330.7	1331.5	1330.7	1335.4	1348.8	1363.0
25°	1361.4	1363.8	1352.8	1340.9	1344.9	1346.5	1344.9	1345.7	1355.9	1368.5
27.5°	1373.2	1376.4	1366.1	1355.9	1358.3	1357.5	1359.8	1362.2	1370.1	1382.7
30°	1397.6	1400.0	1391.3	1381.1	1379.5	1374.0	1381.1	1389.0	1397.6	1408.7
32.5°	1437.8	1442.5	1431.5	1420.5	1413.4	1410.2	1415.8	1429.1	1440.9	1452.8
35°	1504.7	1507.9	1497.6	1477.2	1464.6	1464.6	1469.3	1486.6	1505.5	1520.5
37.5°	1599.2	1603.2	1585.0	1560.6	1541.7	1541.7	1548.0	1566.1	1594.5	1615.8
40°	1714.2	1719.7	1696.9	1671.7	1653.5	1650.4	1658.3	1678.7	1705.5	1732.3
42.5°	1852.8	1859.1	1829.1	1807.1	1792.9	1792.9	1796.9	1815.8	1840.2	1873.2
45°	2029.9	2041.0	2000.0	1978.0	1964.6	1967.7	1970.1	1986.6	2008.7	2046.5
47.5°	2241.0	2252.0	2208.7	2185.8	2183.5	2198.4	2189.0	2200.8	2212.6	2255.9
50°	2480.3	2499.2	2469.3	2467.7	2472.4	2500.0	2478.0	2484.3	2470.9	2498.4
52.5°	2773.2	2800.8	2795.3	2804.7	2857.5	2914.2	2863.8	2841.7	2791.3	2800.0
55°	3128.4	3170.1	3178.0	3234.7	3354.3	3470.1	3363.0	3274.0	3166.9	3147.3
57.5°	3532.3	3565.4	3603.2	3718.9	3942.5	4148.0	3942.5	3745.7	3577.2	3537.0
60°	3966.9	4007.9	4044.1	4215.0	4547.3	4836.2	4541.0	4228.4	4005.5	3951.2
62.5°	4433.9	4486.6	4511.8	4701.6	5089.0	5433.9	5094.5	4715.8	4468.5	4410.2
65°	4881.9	4925.2	4953.6	5155.9	5526.0	5871.7	5551.2	5178.0	4923.6	4847.3
67.5°	5090.6	5114.2	5183.5	5412.6	5803.2	6197.7	5869.3	5437.0	5152.8	5018.9
70°	4785.1	4737.0	4904.0	5270.9	5836.2	6397.7	5911.8	5259.9	4911.8	4694.5
72.5°	3697.6	3615.0	3904.7	4532.3	5458.3	6270.1	5496.1	4567.7	4085.1	3644.1
75°	2011.8	1918.1	2318.1	3111.8	4352.8	5434.7	4452.8	3200.8	2581.1	1996.9
77.5°	567.7	532.3	855.1	1505.5	2618.1	3815.8	2718.9	1538.6	1014.2	601.6
80°	174.0	168.5	228.3	453.5	1111.8	1827.6	1068.5	459.1	290.6	183.5
82.5°	103.1	94.5	113.4	165.4	283.5	574.0	275.6	172.4	138.6	92.9
85°	59.1	55.1	66.9	80.3	95.3	122.0	79.5	81.9	74.0	49.6
87.5°	24.4	22.0	26.0	25.2	22.0	28.3	21.3	25.2	29.9	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1381.9
1377.2
1359.8
1340.9
1332.3
1332.3
1337.8
1348.0
1358.3
1363.0
1367.7
1379.5
1406.3
1448.0
1515.0
1607.9
1723.6
1870.9
2044.9
2243.3
2481.9
2770.9
3116.5
3508.7
3903.9
4363.0
4809.5
5020.5
4746.5
3753.6
2126.8
668.5
193.7
100.8
52.0
18.1
0.0

OF REPORT)