

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: P945964

Luminaire Tested: **GALN-SB1D-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945964
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-SB1D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10660 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

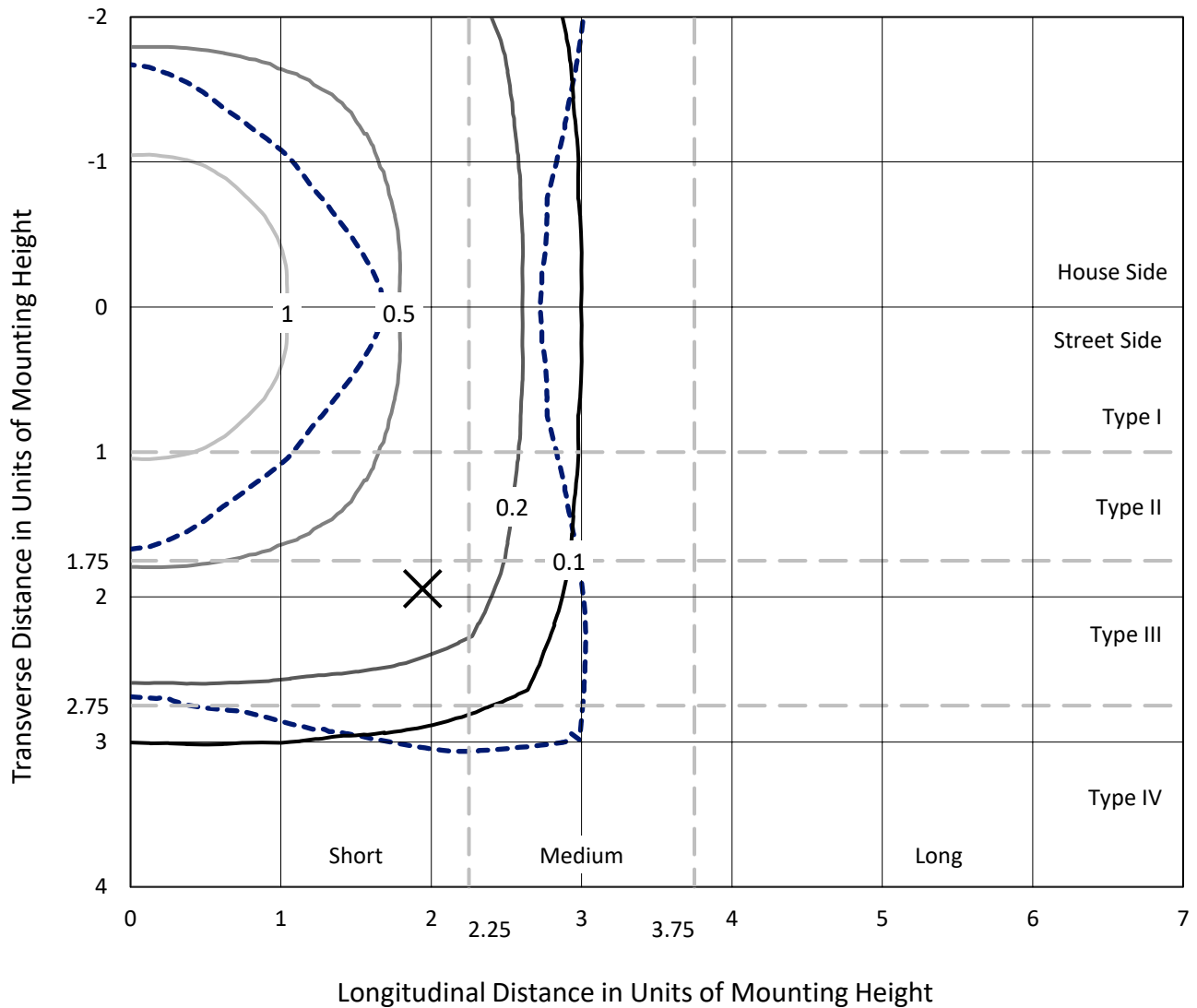
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

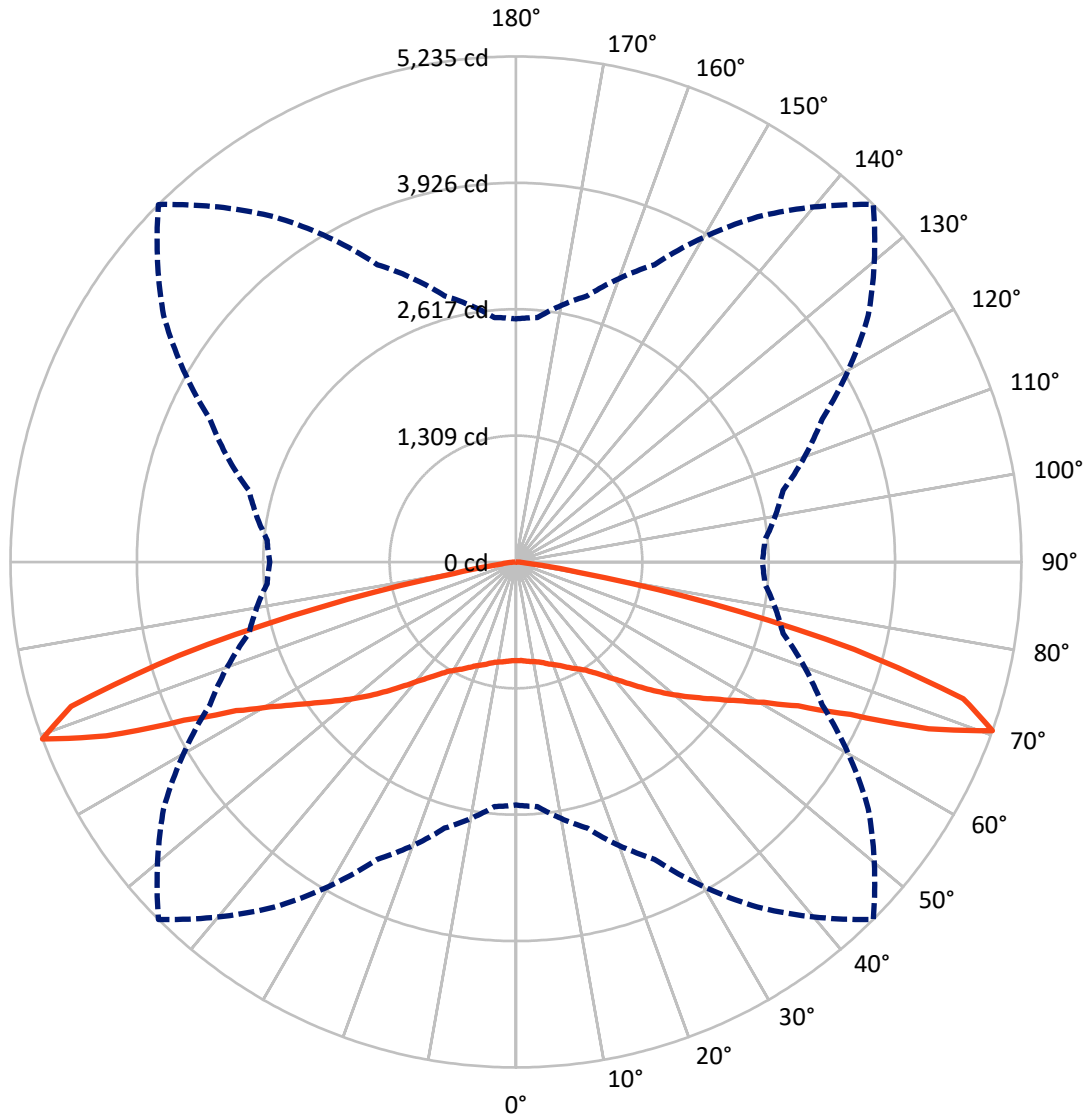
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	5330.0	0.0	5330.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5330.0	0.0	5330.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10660.0	0.0	10660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	0.9
10°-20°	307.6	2.9
20°-30°	549.7	5.2
30°-40°	891.1	8.4
40°-50°	1451.5	13.6
50°-60°	2213.0	20.8
60°-70°	3292.3	30.9
70°-80°	1794.4	16.8
80°-90°	61.1	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°	10660.0	100.0
0°-180°	10660.0	100.0

Coefficient of Utilization



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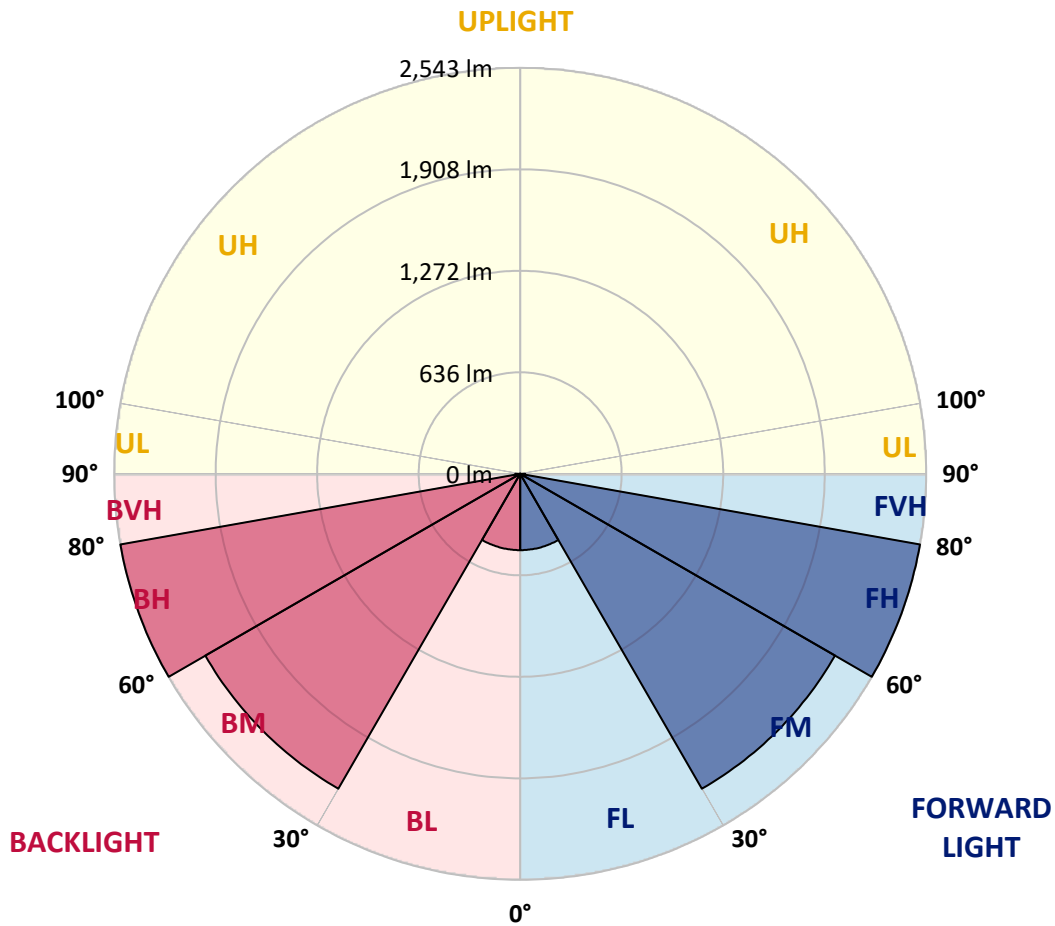
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.3	4.5			
FM (30°-60°)	2277.8	21.4			
FH (60°-80°)	2543.4	23.9			G2/5000
FVH (80°-90°)	30.6	0.3			G1/100
BL (0°-30°)	478.3	4.5	B1/500		
BM (30°-60°)	2277.8	21.4	B2/2500		
BH (60°-80°)	2543.4	23.9	B4/5000		G2/5000
BVH (80°-90°)	30.6	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°
0°	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1
2.5°	1025.9	1027.0	1024.9	1023.8	1022.7	1021.1	1021.7	1024.3	1026.5	1025.9
5°	1034.5	1035.6	1034.0	1033.4	1031.3	1030.8	1030.8	1033.4	1035.0	1034.0
7.5°	1044.1	1045.7	1043.1	1042.5	1041.5	1040.4	1039.8	1042.5	1044.1	1044.1
10°	1053.2	1054.8	1052.7	1051.1	1050.0	1050.0	1048.9	1051.1	1053.8	1053.2
12.5°	1062.9	1063.9	1061.8	1060.7	1060.7	1062.3	1060.7	1061.8	1063.9	1062.9
15°	1074.6	1075.2	1074.6	1076.2	1078.9	1084.3	1079.5	1078.4	1079.5	1076.8
17.5°	1090.7	1091.8	1093.9	1097.6	1101.4	1111.0	1102.5	1099.8	1099.8	1094.4
20°	1110.5	1112.1	1115.3	1121.7	1126.5	1135.6	1127.1	1123.3	1121.7	1114.8
22.5°	1131.4	1134.0	1138.9	1147.4	1156.0	1164.5	1156.0	1149.6	1144.7	1135.6
25°	1155.4	1158.7	1166.2	1180.1	1191.8	1204.1	1194.0	1181.1	1171.5	1158.7
27.5°	1189.7	1193.4	1202.5	1219.7	1234.7	1245.4	1235.7	1219.1	1205.8	1190.2
30°	1237.9	1241.6	1252.3	1270.5	1280.7	1287.6	1281.2	1268.4	1252.3	1234.7
32.5°	1299.9	1304.8	1316.5	1333.7	1335.8	1336.9	1334.7	1328.3	1316.5	1295.1
35°	1378.6	1384.0	1397.3	1411.3	1409.1	1411.3	1408.1	1405.9	1397.3	1372.7
37.5°	1474.9	1481.4	1495.3	1506.0	1500.6	1498.0	1498.5	1499.0	1494.2	1466.9
40°	1586.8	1595.4	1605.5	1616.8	1607.7	1599.6	1605.0	1609.3	1605.0	1577.2
42.5°	1701.9	1714.2	1724.9	1740.9	1733.4	1723.3	1730.8	1735.6	1726.5	1696.5
45°	1829.8	1841.5	1855.5	1879.5	1874.2	1863.5	1874.2	1875.3	1859.7	1824.4
47.5°	1962.0	1974.3	1995.1	2027.3	2025.1	2013.3	2027.3	2019.8	2000.0	1957.7
50°	2087.2	2104.3	2136.4	2181.4	2185.7	2171.2	2189.9	2175.5	2142.3	2089.3
52.5°	2204.9	2223.1	2274.0	2335.0	2350.5	2331.8	2356.9	2331.8	2282.0	2214.0
55°	2328.6	2348.9	2409.4	2489.1	2520.1	2506.2	2529.8	2491.8	2421.1	2338.7
57.5°	2474.1	2486.4	2558.7	2653.4	2705.9	2709.1	2719.8	2655.5	2569.9	2476.3
60°	2632.0	2649.1	2727.8	2841.3	2924.2	2951.0	2939.7	2844.5	2744.9	2637.4
62.5°	2834.3	2853.0	2947.2	3083.2	3214.3	3280.6	3236.8	3098.7	2975.6	2846.6
65°	3001.8	3022.7	3192.9	3435.3	3674.0	3807.2	3697.0	3442.8	3221.2	3039.3
67.5°	2880.3	2906.0	3173.1	3618.3	4211.8	4609.5	4232.2	3672.9	3238.9	2992.2
70°	2517.5	2541.6	2853.0	3397.3	4363.3	5234.6	4454.3	3497.4	2863.2	2587.0
72.5°	1671.4	1749.0	2064.2	2717.1	3896.1	4843.9	3934.6	2662.0	1914.9	1667.6
75°	554.4	616.5	831.7	1408.6	2609.5	3622.6	2484.3	1246.4	658.8	474.2
77.5°	139.7	161.1	222.1	403.0	1040.9	2062.6	937.1	329.1	179.3	125.2
80°	68.0	74.9	107.0	134.3	260.6	655.6	244.6	126.3	84.6	65.3
82.5°	37.5	38.0	60.5	76.0	96.9	169.7	100.6	73.9	48.7	39.6
85°	23.0	22.5	32.1	40.7	40.7	60.5	48.2	40.7	27.8	24.6
87.5°	9.1	9.1	11.8	12.8	11.2	15.5	12.3	13.4	10.7	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1021.1
1026.5
1034.5
1044.1
1053.2
1062.3
1076.8
1094.4
1114.8
1135.1
1158.1
1189.7
1234.7
1295.7
1372.7
1466.9
1577.2
1698.7
1828.2
1955.0
2088.3
2207.6
2327.5
2463.4
2620.2
2824.1
3009.3
2955.2
2550.1
1613.6
448.5
111.9
59.9
39.6
25.7
10.7
0.0

OF REPORT)