

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: P939810

Luminaire Tested: **GALN-SB2C-830-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939810  
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-830-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

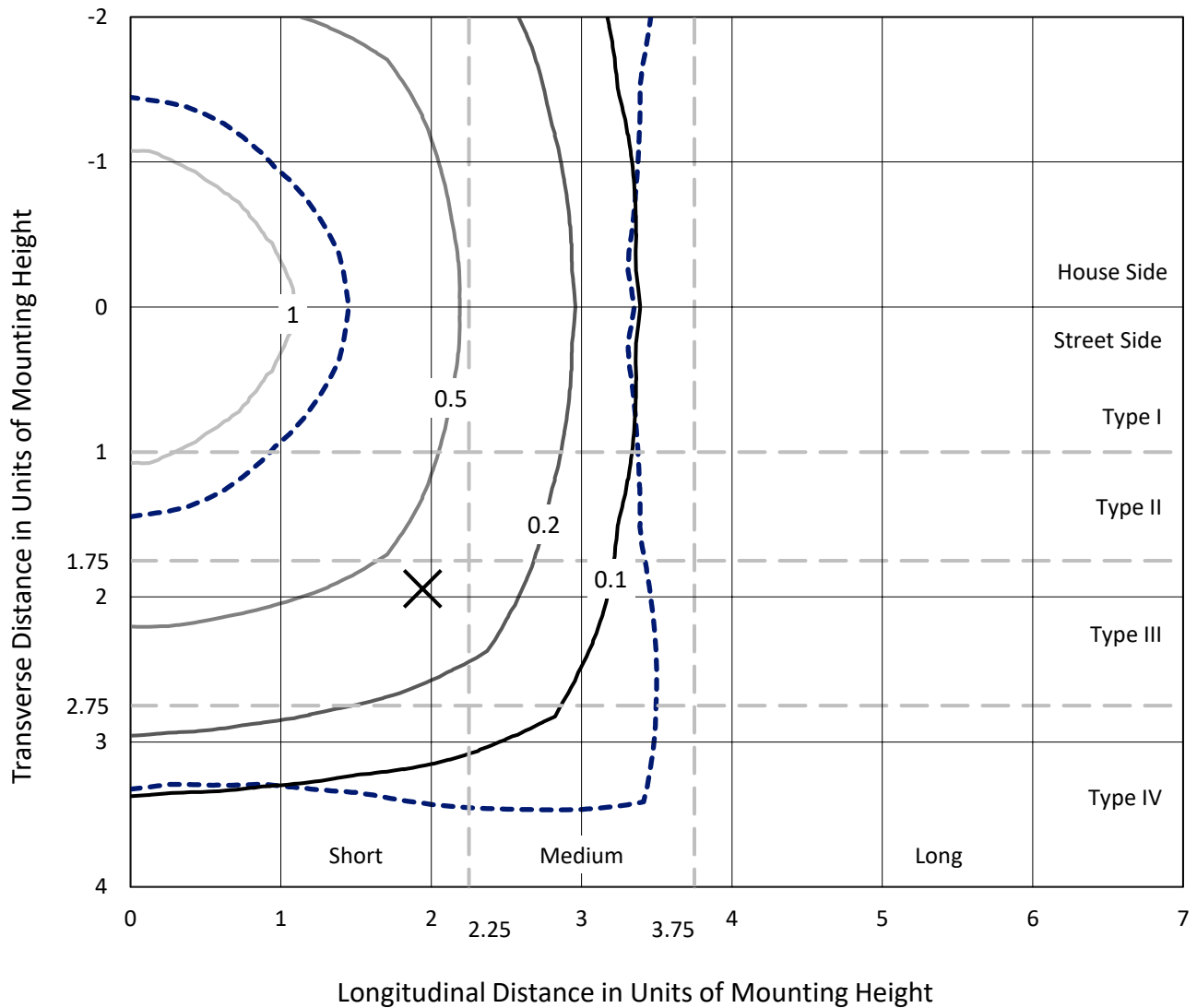
Lumens per Lamp: N/A  
Luminaire Lumens: 13612 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

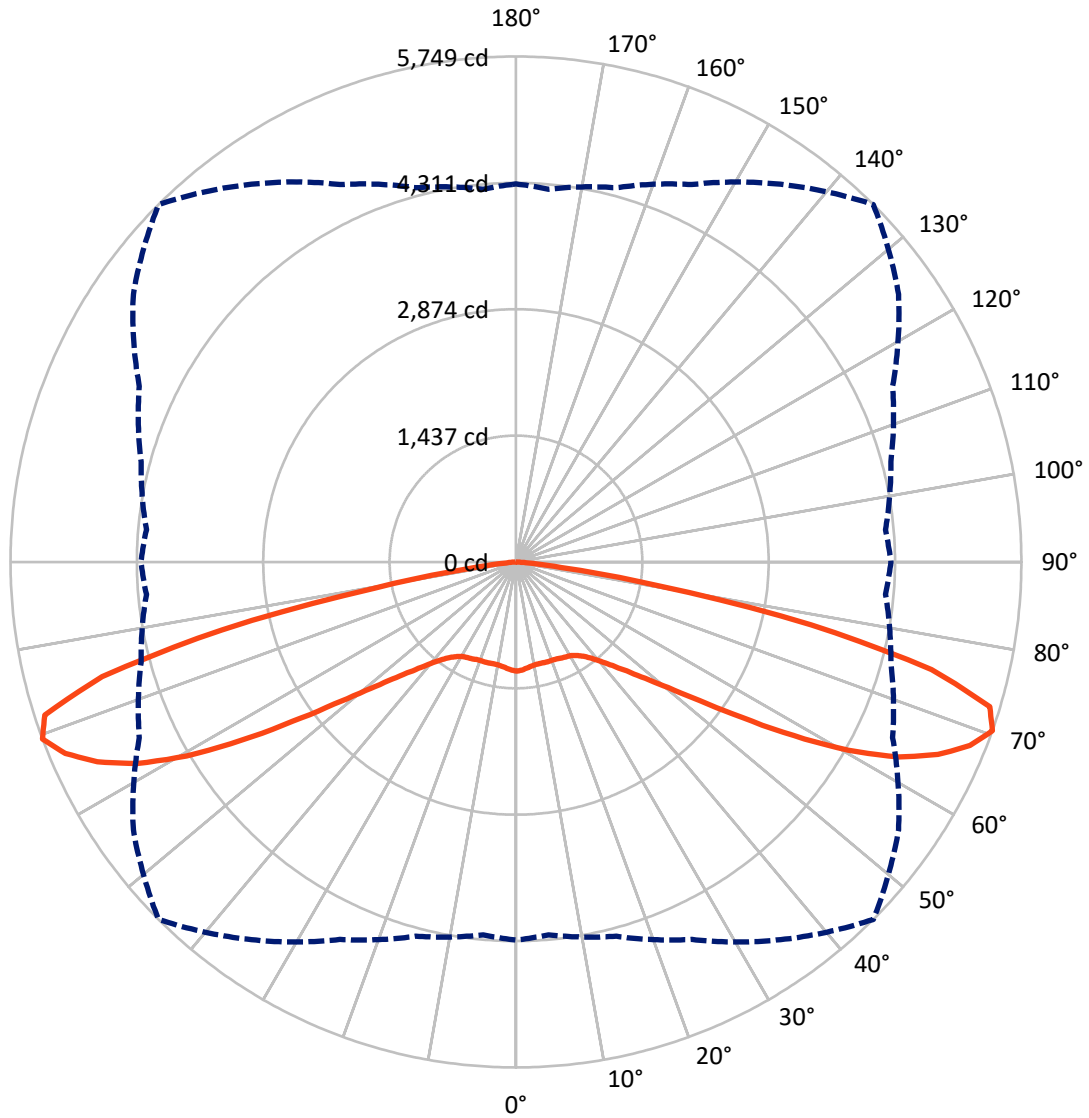
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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
<b>House Side</b>	Lumens	6806.0	0.0	6806.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6806.0	0.0	6806.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13612.0	0.0	13612.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.5	0.8
10°-20°	339.2	2.5
20°-30°	564.4	4.1
30°-40°	853.6	6.3
40°-50°	1418.4	10.4
50°-60°	2676.5	19.7
60°-70°	4519.3	33.2
70°-80°	2969.7	21.8
80°-90°	155.6	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°	13612.0	100.0
0°-180°	13612.0	100.0

**Coefficient of Utilization**



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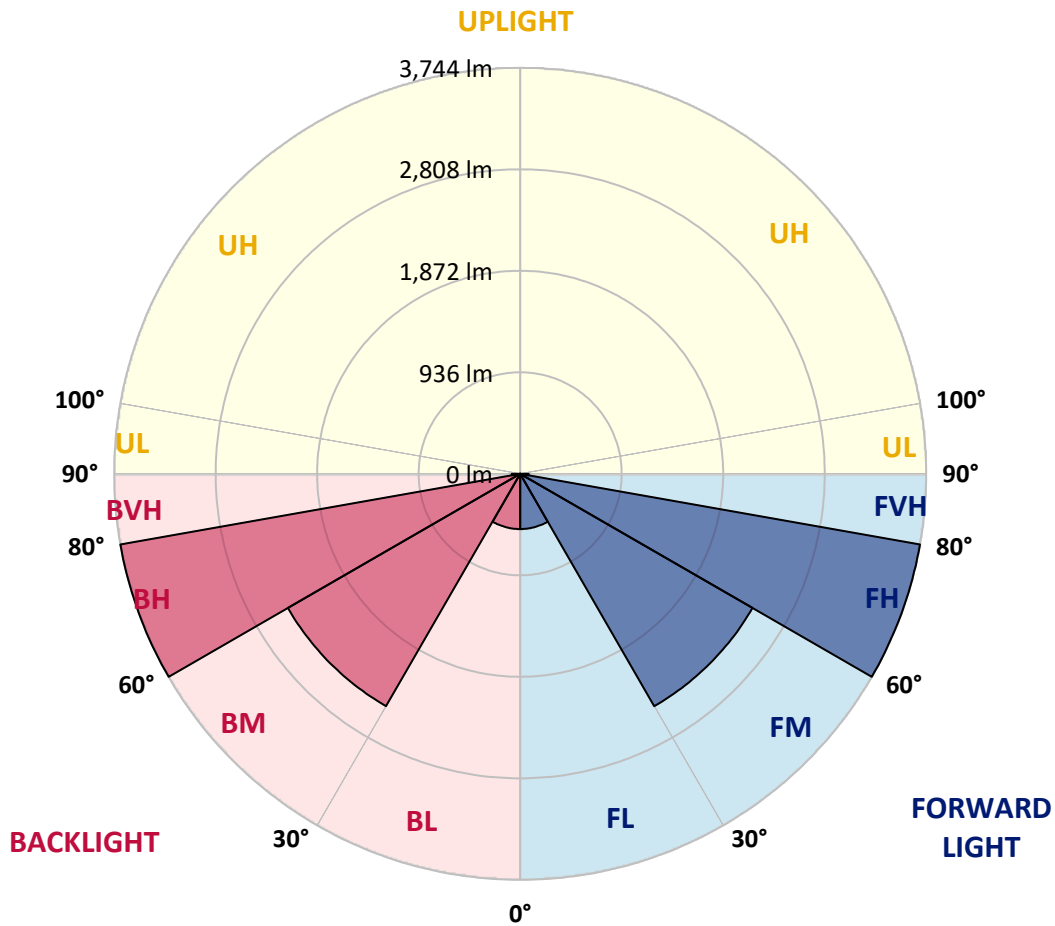
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	509.5	3.7			
FM (30°-60°)	2474.2	18.2			
FH (60°-80°)	3744.5	27.5			G2/5000
FVH (80°-90°)	77.8	0.6			G1/100
BL (0°-30°)	509.5	3.7	B2/1000		
BM (30°-60°)	2474.2	18.2	B2/2500		
BH (60°-80°)	3744.5	27.5	B4/5000		G2/5000
BVH (80°-90°)	77.8	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°	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7	1241.7
2.5°	1233.9	1237.4	1236.0	1233.2	1233.2	1231.1	1233.2	1234.6	1236.7	1238.2
5°	1217.6	1220.5	1219.8	1217.6	1218.3	1216.2	1217.6	1219.8	1221.2	1221.9
7.5°	1203.5	1206.3	1204.9	1201.4	1201.4	1199.2	1199.9	1202.1	1204.2	1204.9
10°	1199.9	1202.8	1198.5	1192.9	1190.7	1187.9	1188.6	1190.7	1195.0	1197.1
12.5°	1201.4	1203.5	1199.2	1190.7	1188.6	1185.8	1185.8	1187.9	1193.6	1196.4
15°	1205.6	1207.7	1201.4	1192.2	1190.0	1187.9	1187.2	1190.0	1196.4	1201.4
17.5°	1213.4	1215.5	1205.6	1192.9	1190.0	1190.7	1190.0	1192.2	1202.1	1211.3
20°	1220.5	1221.9	1208.4	1192.9	1190.0	1190.7	1190.0	1194.3	1207.0	1219.8
22.5°	1222.6	1224.0	1211.3	1197.8	1195.7	1196.4	1195.7	1199.9	1212.0	1224.7
25°	1223.3	1225.4	1215.5	1204.9	1208.4	1209.9	1208.4	1209.1	1218.3	1229.7
27.5°	1233.9	1236.7	1227.5	1218.3	1220.5	1219.8	1221.9	1224.0	1231.1	1242.4
30°	1255.8	1258.0	1250.2	1241.0	1239.6	1234.6	1241.0	1248.1	1255.8	1265.7
32.5°	1291.9	1296.2	1286.3	1276.4	1270.0	1267.2	1272.1	1284.1	1294.8	1305.4
35°	1352.1	1354.9	1345.7	1327.3	1316.0	1316.0	1320.2	1335.8	1352.8	1366.2
37.5°	1437.0	1440.5	1424.2	1402.3	1385.3	1385.3	1391.0	1407.2	1432.7	1451.8
40°	1540.3	1545.2	1524.7	1502.1	1485.8	1483.0	1490.0	1508.4	1532.5	1556.5
42.5°	1664.8	1670.4	1643.6	1623.7	1611.0	1611.0	1614.5	1631.5	1653.5	1683.2
45°	1824.0	1833.9	1797.1	1777.3	1765.2	1768.1	1770.2	1785.1	1804.9	1838.8
47.5°	2013.6	2023.5	1984.6	1964.1	1961.9	1975.4	1966.9	1977.5	1988.1	2027.0
50°	2228.7	2245.7	2218.8	2217.4	2221.6	2246.4	2226.5	2232.2	2220.2	2244.9
52.5°	2491.9	2516.6	2511.7	2520.2	2567.6	2618.5	2573.2	2553.4	2508.1	2515.9
55°	2811.0	2848.5	2855.5	2906.5	3014.0	3118.0	3021.8	2941.8	2845.6	2827.9
57.5°	3173.9	3203.6	3237.6	3341.6	3542.5	3727.2	3542.5	3365.6	3214.2	3178.2
60°	3564.5	3601.3	3633.8	3787.3	4085.9	4345.6	4080.2	3799.4	3599.1	3550.3
62.5°	3984.0	4031.4	4054.1	4224.6	4572.7	4882.6	4577.6	4237.3	4015.1	3962.8
65°	4386.6	4425.5	4451.0	4632.8	4965.3	5275.9	4988.0	4652.6	4424.1	4355.5
67.5°	4574.1	4595.3	4657.6	4863.5	5214.4	5568.8	5273.8	4885.4	4630.0	4509.7
70°	4299.6	4256.4	4406.4	4736.1	5244.1	5748.6	5312.0	4726.2	4413.5	4218.2
72.5°	3322.5	3248.2	3508.6	4072.5	4904.5	5633.9	4938.5	4104.3	3670.6	3274.4
75°	1807.7	1723.5	2082.9	2796.1	3911.1	4883.3	4001.0	2876.0	2319.2	1794.3
77.5°	510.1	478.3	768.4	1352.8	2352.5	3428.6	2443.0	1382.5	911.3	540.5
80°	156.4	151.4	205.2	407.5	999.0	1642.1	960.1	412.5	261.1	164.9
82.5°	92.7	84.9	101.9	148.6	254.7	515.8	247.6	154.9	124.5	83.5
85°	53.1	49.5	60.1	72.2	85.6	109.7	71.5	73.6	66.5	44.6
87.5°	21.9	19.8	23.3	22.6	19.8	25.5	19.1	22.6	26.9	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1241.7
1237.4
1221.9
1204.9
1197.1
1197.1
1202.1
1211.3
1220.5
1224.7
1229.0
1239.6
1263.6
1301.1
1361.3
1444.7
1548.7
1681.1
1837.4
2015.7
2230.1
2489.7
2800.3
3152.7
3507.9
3920.3
4321.5
4511.1
4264.9
3372.7
1911.0
600.7
174.0
90.6
46.7
16.3
0.0

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