

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: P939640

Luminaire Tested: **GALN-SB2B-830-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939640  
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-SB2B-830-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

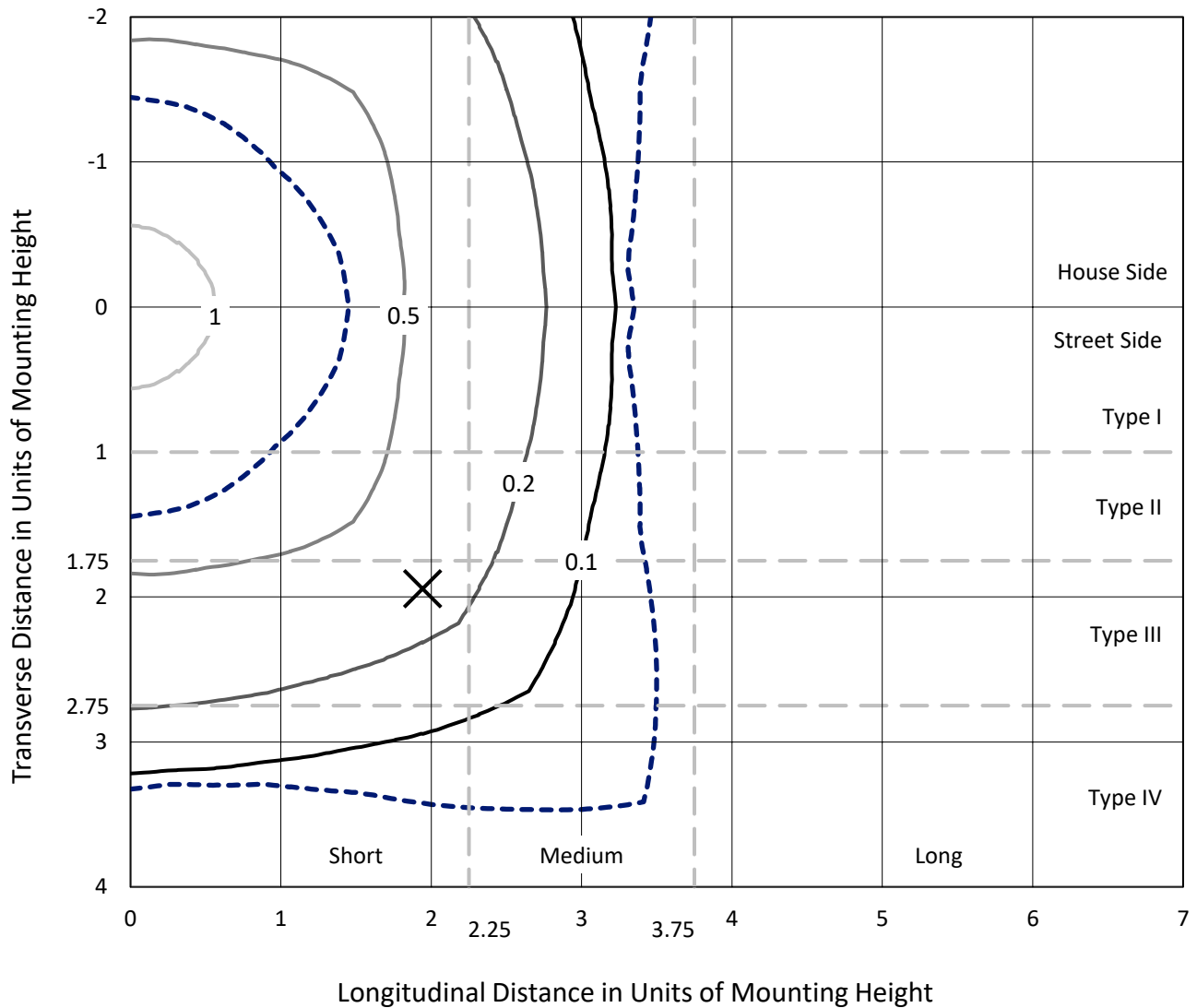
Lumens per Lamp: N/A  
Luminaire Lumens: 10235 lumens  
Efficiency: N/A  
Efficacy: 138.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

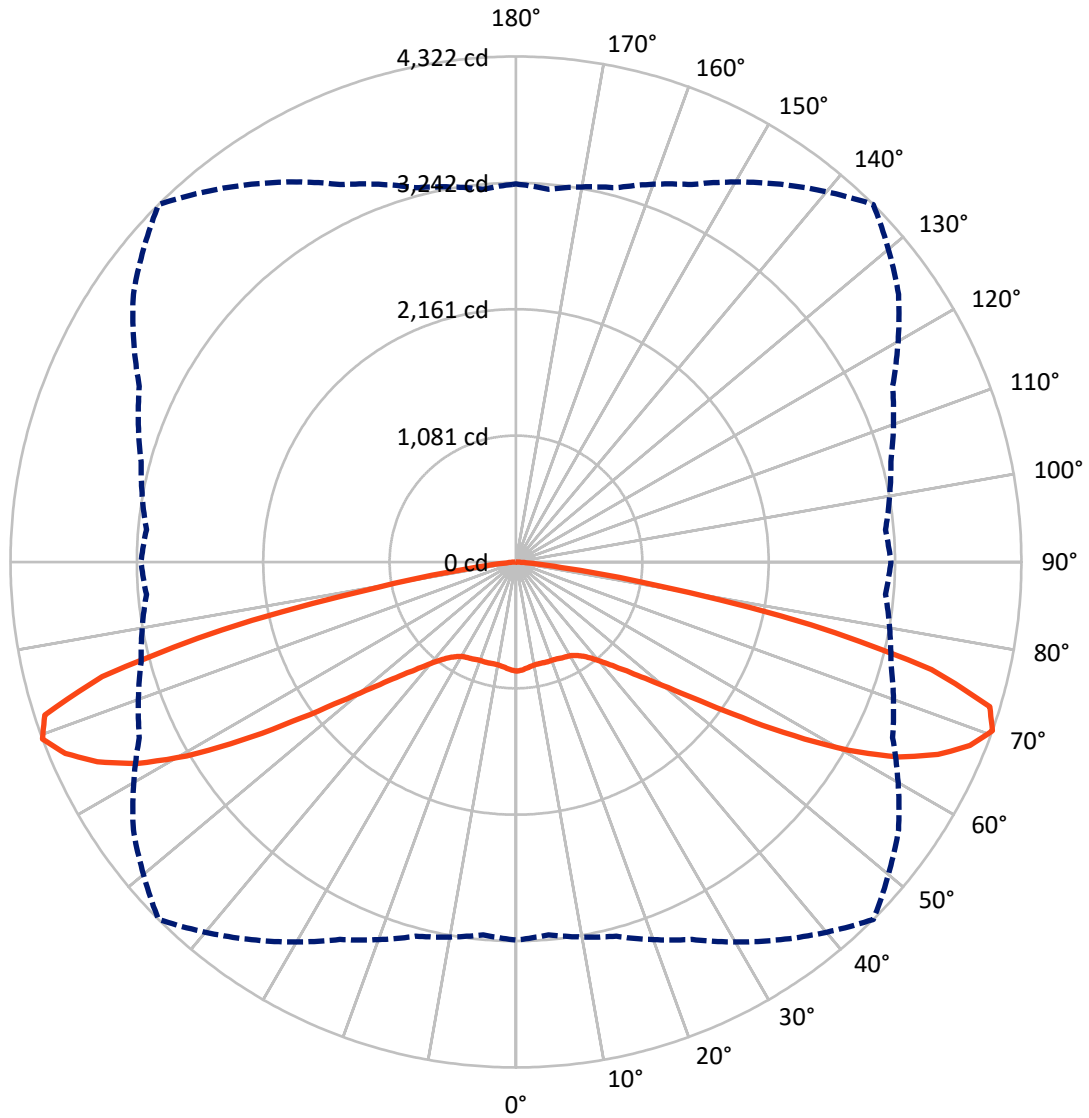
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	5117.5	0.0	5117.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5117.5	0.0	5117.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10235.0	0.0	10235.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.9	0.8
10°-20°	255.0	2.5
20°-30°	424.4	4.1
30°-40°	641.8	6.3
40°-50°	1066.5	10.4
50°-60°	2012.5	19.7
60°-70°	3398.1	33.2
70°-80°	2232.9	21.8
80°-90°	117.0	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°	10235.0	100.0
0°-180°	10235.0	100.0

**Coefficient of Utilization**



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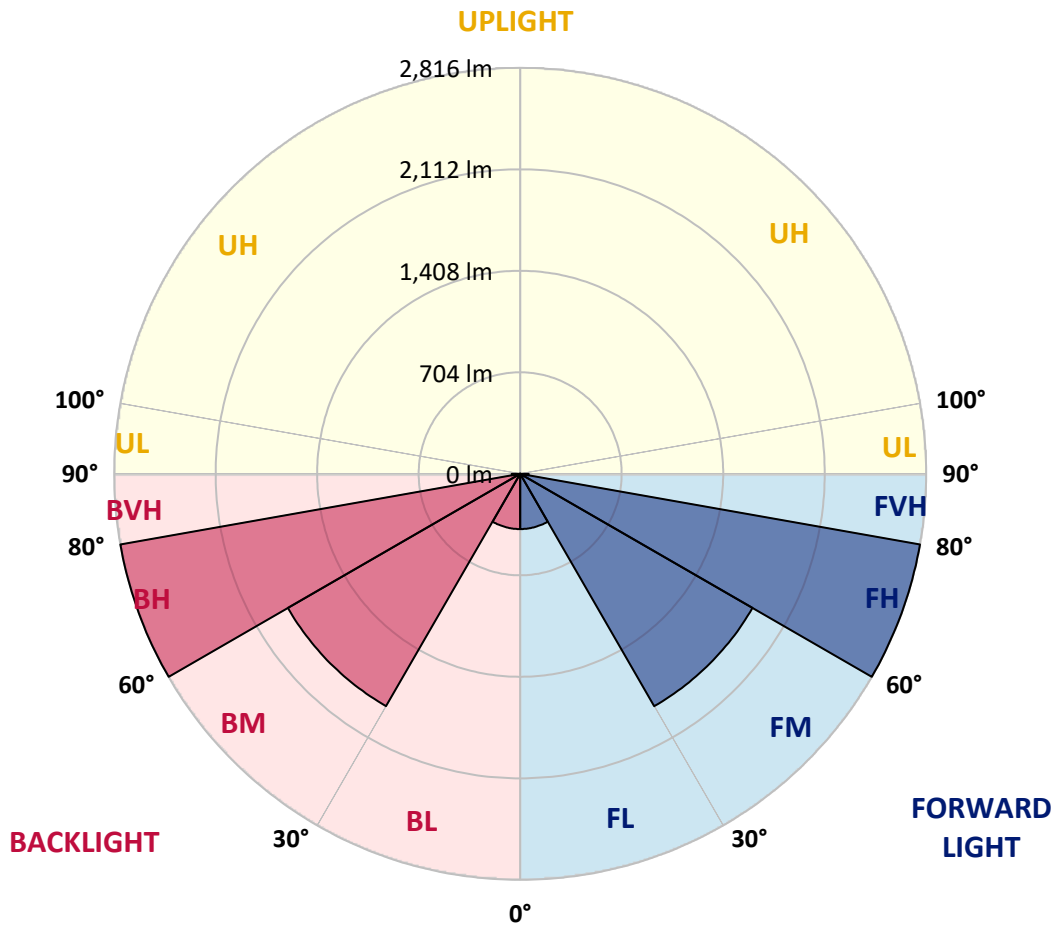
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	383.1	3.7			
FM (30°-60°)	1860.4	18.2			
FH (60°-80°)	2815.5	27.5			G2/5000
FVH (80°-90°)	58.5	0.6			G1/100
BL (0°-30°)	383.1	3.7	B1/500		
BM (30°-60°)	1860.4	18.2	B2/2500		
BH (60°-80°)	2815.5	27.5	B4/5000		G2/5000
BVH (80°-90°)	58.5	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°	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6
2.5°	927.8	930.4	929.4	927.3	927.3	925.7	927.3	928.3	929.9	931.0
5°	915.6	917.7	917.1	915.6	916.1	914.5	915.6	917.1	918.2	918.7
7.5°	904.9	907.0	906.0	903.3	903.3	901.7	902.3	903.8	905.4	906.0
10°	902.3	904.4	901.2	896.9	895.3	893.2	893.7	895.3	898.5	900.1
12.5°	903.3	904.9	901.7	895.3	893.7	891.6	891.6	893.2	897.5	899.6
15°	906.5	908.1	903.3	896.4	894.8	893.2	892.7	894.8	899.6	903.3
17.5°	912.4	914.0	906.5	896.9	894.8	895.3	894.8	896.4	903.8	910.8
20°	917.7	918.7	908.6	896.9	894.8	895.3	894.8	898.0	907.6	917.1
22.5°	919.3	920.3	910.8	900.7	899.1	899.6	899.1	902.3	911.3	920.9
25°	919.8	921.4	914.0	906.0	908.6	909.7	908.6	909.2	916.1	924.6
27.5°	927.8	929.9	923.0	916.1	917.7	917.1	918.7	920.3	925.7	934.2
30°	944.3	945.9	940.0	933.1	932.0	928.3	933.1	938.4	944.3	951.7
32.5°	971.4	974.6	967.2	959.7	954.9	952.8	956.5	965.6	973.5	981.5
35°	1016.6	1018.8	1011.8	998.0	989.5	989.5	992.7	1004.4	1017.2	1027.3
37.5°	1080.5	1083.1	1070.9	1054.4	1041.6	1041.6	1045.9	1058.1	1077.3	1091.6
40°	1158.1	1161.9	1146.4	1129.4	1117.2	1115.0	1120.4	1134.2	1152.3	1170.4
42.5°	1251.8	1256.0	1235.8	1220.9	1211.3	1211.3	1214.0	1226.8	1243.3	1265.6
45°	1371.5	1378.9	1351.2	1336.4	1327.3	1329.4	1331.0	1342.2	1357.1	1382.6
47.5°	1514.0	1521.5	1492.2	1476.8	1475.2	1485.3	1478.9	1486.9	1494.9	1524.1
50°	1675.8	1688.5	1668.3	1667.2	1670.4	1689.1	1674.2	1678.4	1669.4	1688.0
52.5°	1873.7	1892.3	1888.6	1894.9	1930.6	1968.9	1934.8	1919.9	1885.9	1891.7
55°	2113.6	2141.8	2147.1	2185.4	2266.3	2344.5	2272.1	2212.0	2139.7	2126.4
57.5°	2386.5	2408.8	2434.4	2512.6	2663.7	2802.5	2663.7	2530.7	2416.8	2389.7
60°	2680.2	2707.8	2732.3	2847.7	3072.2	3267.5	3068.0	2856.8	2706.2	2669.5
62.5°	2995.6	3031.3	3048.3	3176.5	3438.2	3671.2	3442.0	3186.1	3019.0	2979.7
65°	3298.3	3327.6	3346.7	3483.5	3733.5	3967.0	3750.5	3498.3	3326.5	3274.9
67.5°	3439.3	3455.3	3502.1	3656.9	3920.7	4187.3	3965.4	3673.4	3481.3	3390.9
70°	3232.9	3200.4	3313.2	3561.1	3943.1	4322.4	3994.2	3553.7	3318.5	3171.7
72.5°	2498.2	2442.4	2638.1	3062.1	3687.7	4236.2	3713.3	3086.1	2760.0	2462.0
75°	1359.2	1295.9	1566.2	2102.4	2940.8	3671.8	3008.4	2162.5	1743.9	1349.1
77.5°	383.6	359.6	577.7	1017.2	1768.9	2578.0	1837.0	1039.5	685.2	406.4
80°	117.6	113.8	154.3	306.4	751.2	1234.7	721.9	310.1	196.3	124.0
82.5°	69.7	63.8	76.6	111.7	191.5	387.8	186.2	116.5	93.6	62.8
85°	39.9	37.2	45.2	54.3	64.4	82.5	53.7	55.3	50.0	33.5
87.5°	16.5	14.9	17.6	17.0	14.9	19.2	14.4	17.0	20.2	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
933.6
930.4
918.7
906.0
900.1
900.1
903.8
910.8
917.7
920.9
924.1
932.0
950.1
978.3
1023.5
1086.3
1164.5
1264.0
1381.6
1515.6
1676.8
1872.1
2105.6
2370.5
2637.6
2947.7
3249.4
3392.0
3206.8
2536.0
1436.9
451.7
130.9
68.1
35.1
12.2
0.0

OF REPORT)