

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: P941030

Luminaire Tested: **GALN-SB4B-850-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941030  
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-SB4B-850-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

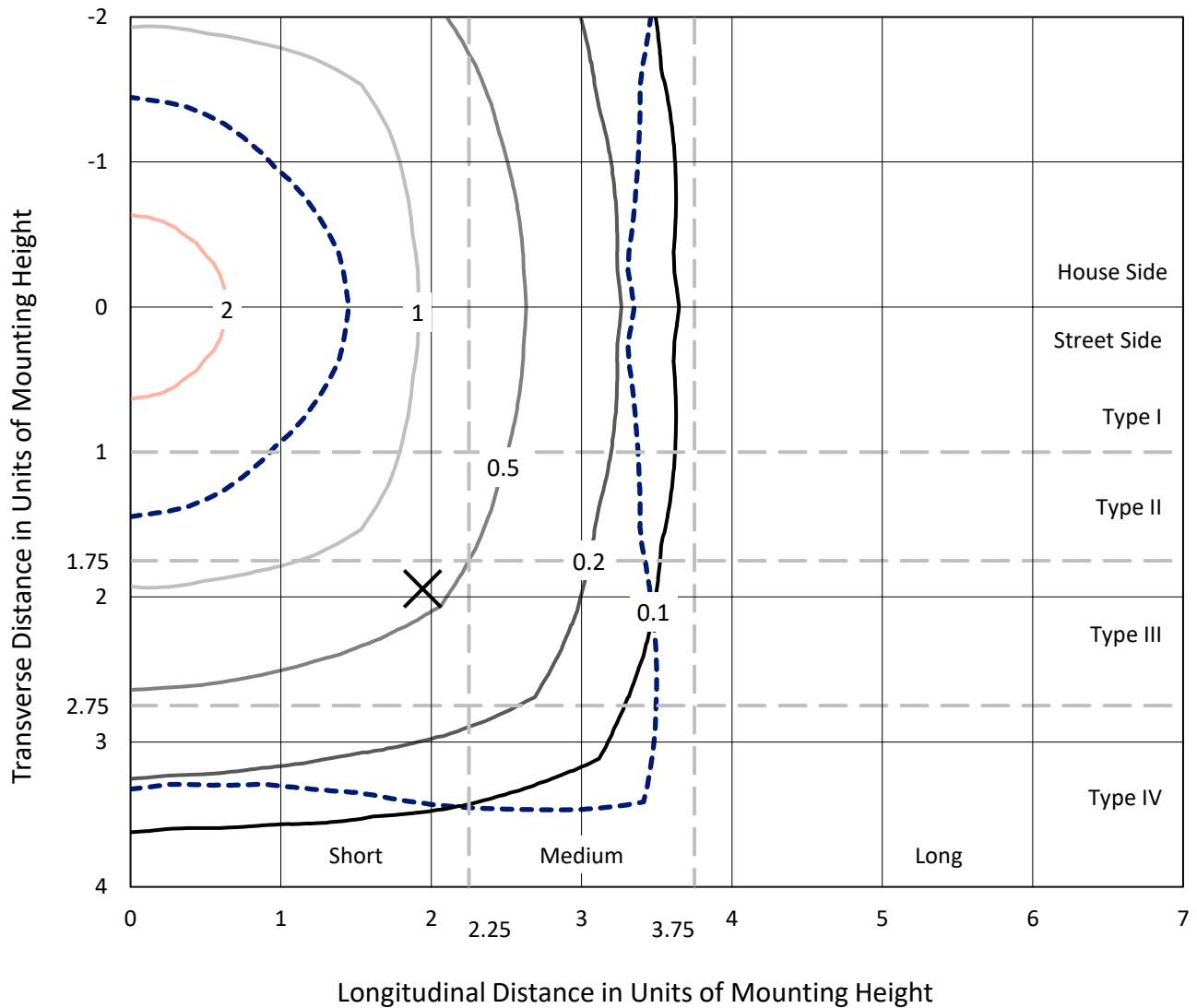
Lumens per Lamp: N/A  
Luminaire Lumens: 21835 lumens  
Efficiency: N/A  
Efficacy: 148.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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



REPORT NUMBER: P941030  
 CATALOG NUMBER: GALN-SB4B-850-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

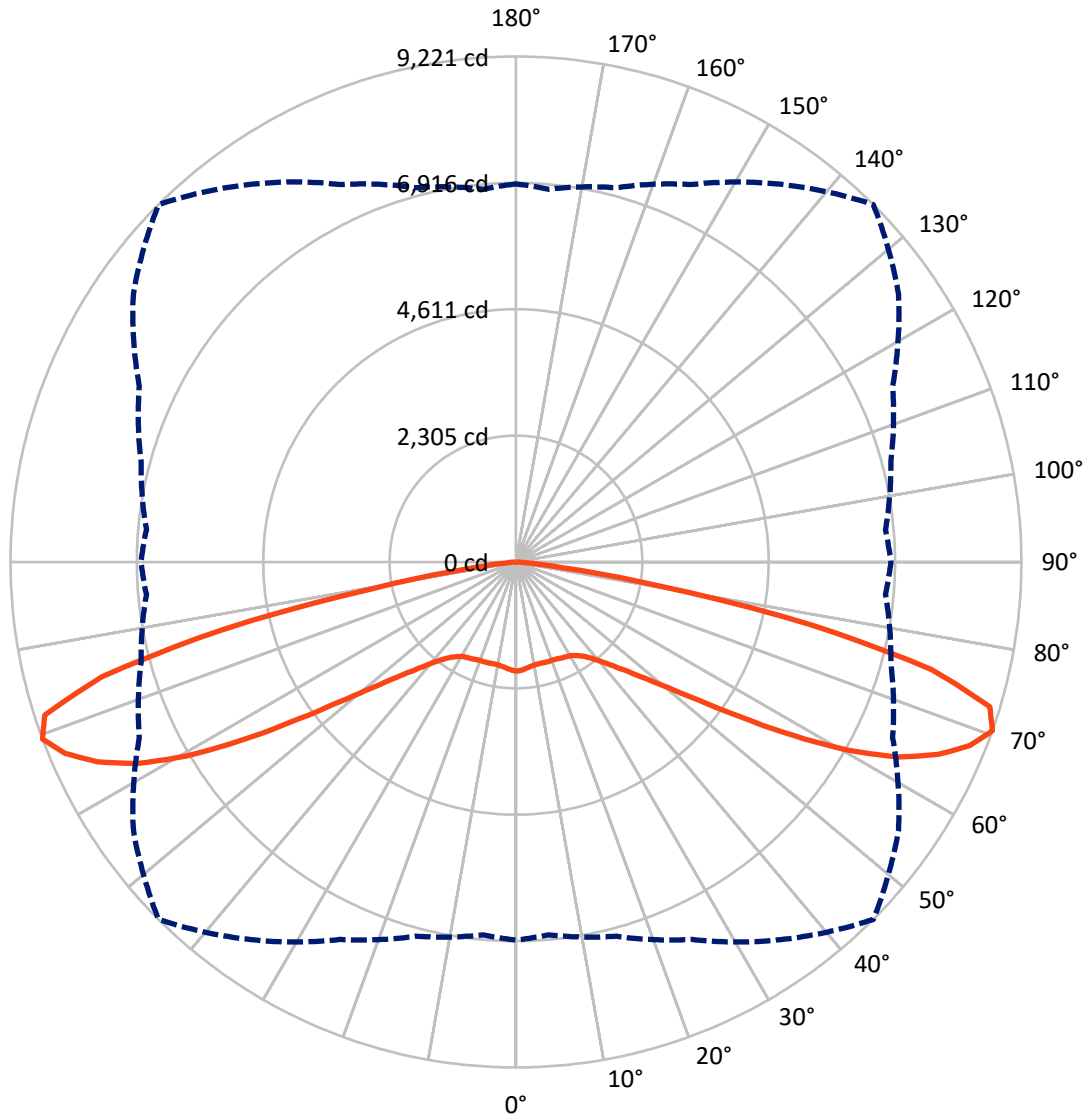
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P941030  
CATALOG NUMBER: GALN-SB4B-850-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P941030

CATALOG NUMBER: GALN-SB4B-850-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10917.5	0.0	10917.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10917.5	0.0	10917.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21835.0	0.0	21835.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.3	0.8
10°-20°	544.0	2.5
20°-30°	905.4	4.1
30°-40°	1369.2	6.3
40°-50°	2275.2	10.4
50°-60°	4293.3	19.7
60°-70°	7249.4	33.2
70°-80°	4763.6	21.8
80°-90°	249.6	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°	21835.0	100.0
0°-180°	21835.0	100.0

**Coefficient of Utilization**



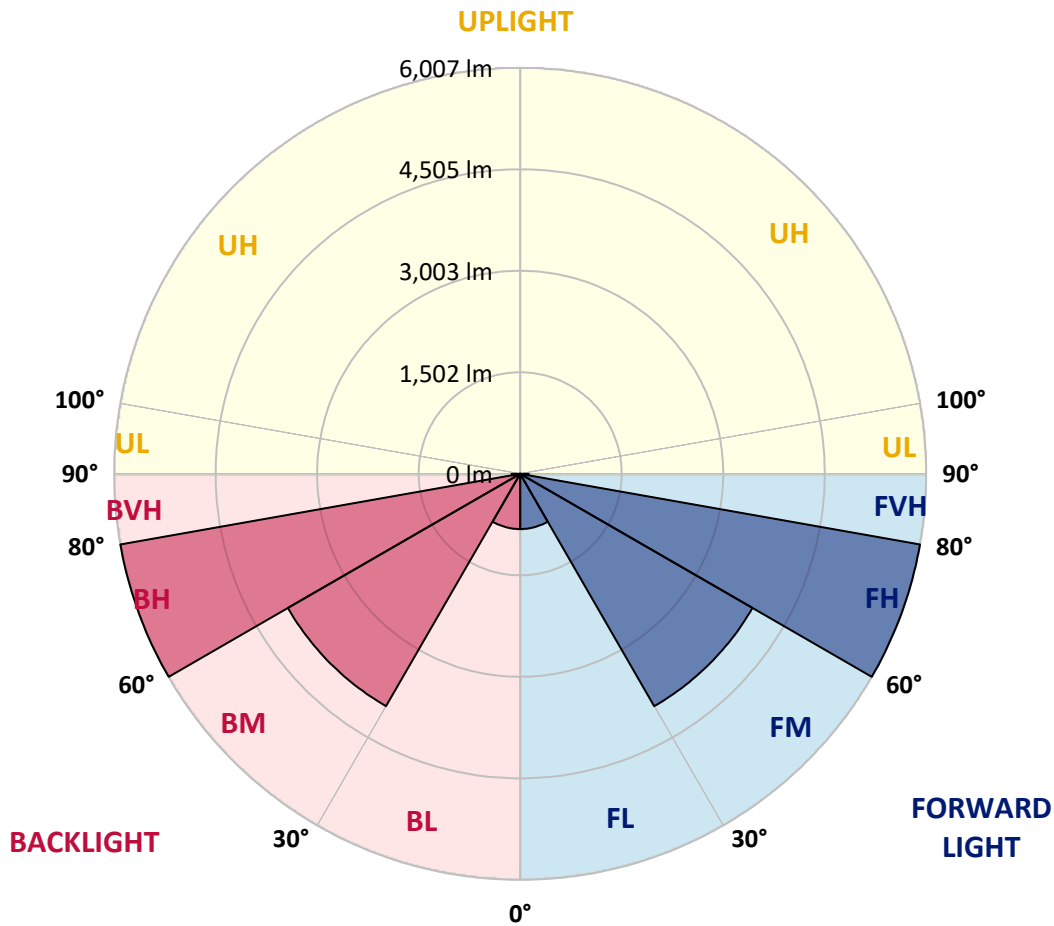
REPORT NUMBER: P941030  
 CATALOG NUMBER: GALN-SB4B-850-U-5WQ

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	817.3	3.7			
FM	(30°-60°)	3968.9	18.2			
FH	(60°-80°)	6006.5	27.5			G3/7500
FVH	(80°-90°)	124.8	0.6			G2/225
BL	(0°-30°)	817.3	3.7	B2/1000		
BM	(30°-60°)	3968.9	18.2	B3/5000		
BH	(60°-80°)	6006.5	27.5	B5		G3/7500
BVH	(80°-90°)	124.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



REPORT NUMBER: P941030

CATALOG NUMBER: GALN-SB4B-850-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1991.8	1991.8	1991.8	1991.8	1991.8	1991.8	1991.8	1991.8	1991.8	1991.8
2.5°	1979.3	1985.0	1982.7	1978.2	1978.2	1974.8	1978.2	1980.4	1983.8	1986.1
5°	1953.2	1957.7	1956.6	1953.2	1954.3	1950.9	1953.2	1956.6	1958.9	1960.0
7.5°	1930.5	1935.0	1932.8	1927.1	1927.1	1923.7	1924.8	1928.2	1931.6	1932.8
10°	1924.8	1929.4	1922.6	1913.5	1910.1	1905.5	1906.7	1910.1	1916.9	1920.3
12.5°	1927.1	1930.5	1923.7	1910.1	1906.7	1902.1	1902.1	1905.5	1914.6	1919.2
15°	1933.9	1937.3	1927.1	1912.3	1908.9	1905.5	1904.4	1908.9	1919.2	1927.1
17.5°	1946.4	1949.8	1933.9	1913.5	1908.9	1910.1	1908.9	1912.3	1928.2	1943.0
20°	1957.7	1960.0	1938.5	1913.5	1908.9	1910.1	1908.9	1915.8	1936.2	1956.6
22.5°	1961.1	1963.4	1943.0	1921.4	1918.0	1919.2	1918.0	1924.8	1944.1	1964.6
25°	1962.3	1965.7	1949.8	1932.8	1938.5	1940.7	1938.5	1939.6	1954.3	1972.5
27.5°	1979.3	1983.8	1969.1	1954.3	1957.7	1956.6	1960.0	1963.4	1974.8	1992.9
30°	2014.5	2017.9	2005.4	1990.7	1988.4	1980.4	1990.7	2002.0	2014.5	2030.4
32.5°	2072.4	2079.2	2063.3	2047.4	2037.2	2032.6	2040.6	2059.9	2076.9	2093.9
35°	2168.8	2173.4	2158.6	2129.1	2111.0	2111.0	2117.8	2142.7	2170.0	2191.5
37.5°	2305.0	2310.7	2284.6	2249.4	2222.2	2222.2	2231.3	2257.4	2298.2	2328.9
40°	2470.7	2478.7	2445.8	2409.4	2383.3	2378.8	2390.1	2419.7	2458.2	2496.8
42.5°	2670.5	2679.6	2636.4	2604.7	2584.2	2584.2	2589.9	2617.1	2652.3	2700.0
45°	2925.8	2941.7	2882.7	2850.9	2831.6	2836.2	2839.6	2863.4	2895.2	2949.7
47.5°	3230.0	3245.9	3183.5	3150.5	3147.1	3168.7	3155.1	3172.1	3189.1	3251.6
50°	3575.0	3602.2	3559.1	3556.9	3563.7	3603.4	3571.6	3580.7	3561.4	3601.1
52.5°	3997.2	4036.9	4029.0	4042.6	4118.6	4200.4	4127.7	4095.9	4023.3	4035.8
55°	4509.1	4569.2	4580.6	4662.3	4834.8	5001.6	4847.3	4719.0	4564.7	4536.3
57.5°	5091.3	5138.9	5193.4	5360.2	5682.6	5978.8	5682.6	5398.8	5156.0	5098.1
60°	5717.7	5776.8	5829.0	6075.2	6554.2	6970.7	6545.1	6094.5	5773.4	5695.0
62.5°	6390.8	6466.8	6503.1	6776.6	7335.0	7832.1	7343.0	6797.1	6440.7	6356.7
65°	7036.5	7098.9	7139.8	7431.5	7964.9	8463.1	8001.2	7463.3	7096.7	6986.6
67.5°	7337.3	7371.3	7471.2	7801.5	8364.4	8933.0	8459.7	7836.7	7426.9	7234.0
70°	6896.9	6827.7	7068.3	7597.2	8412.1	9221.3	8521.0	7581.3	7079.7	6766.4
72.5°	5329.6	5210.4	5628.1	6532.6	7867.3	9037.4	7921.8	6583.7	5888.0	5252.4
75°	2899.7	2764.7	3341.2	4485.2	6273.9	7833.2	6418.0	4613.5	3720.3	2878.2
77.5°	818.3	767.2	1232.5	2170.0	3773.6	5499.8	3918.9	2217.6	1461.8	867.1
80°	250.8	242.9	329.1	653.7	1602.5	2634.2	1540.1	661.7	418.8	264.4
82.5°	148.7	136.2	163.4	238.3	408.6	827.4	397.2	248.5	199.7	133.9
85°	85.1	79.4	96.5	115.8	137.3	175.9	114.6	118.0	106.7	71.5
87.5°	35.2	31.8	37.5	36.3	31.8	40.9	30.6	36.3	43.1	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1991.8
1985.0
1960.0
1932.8
1920.3
1920.3
1928.2
1943.0
1957.7
1964.6
1971.4
1988.4
2027.0
2087.1
2183.6
2317.5
2484.3
2696.6
2947.4
3233.4
3577.3
3993.8
4492.0
5057.2
5627.0
6288.6
6932.1
7236.3
6841.3
5410.2
3065.4
963.6
279.2
145.3
74.9
26.1
0.0

OF REPORT)