

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: P941240

Luminaire Tested: **GALN-SB4C-940-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941240
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-SB4C-940-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22000 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

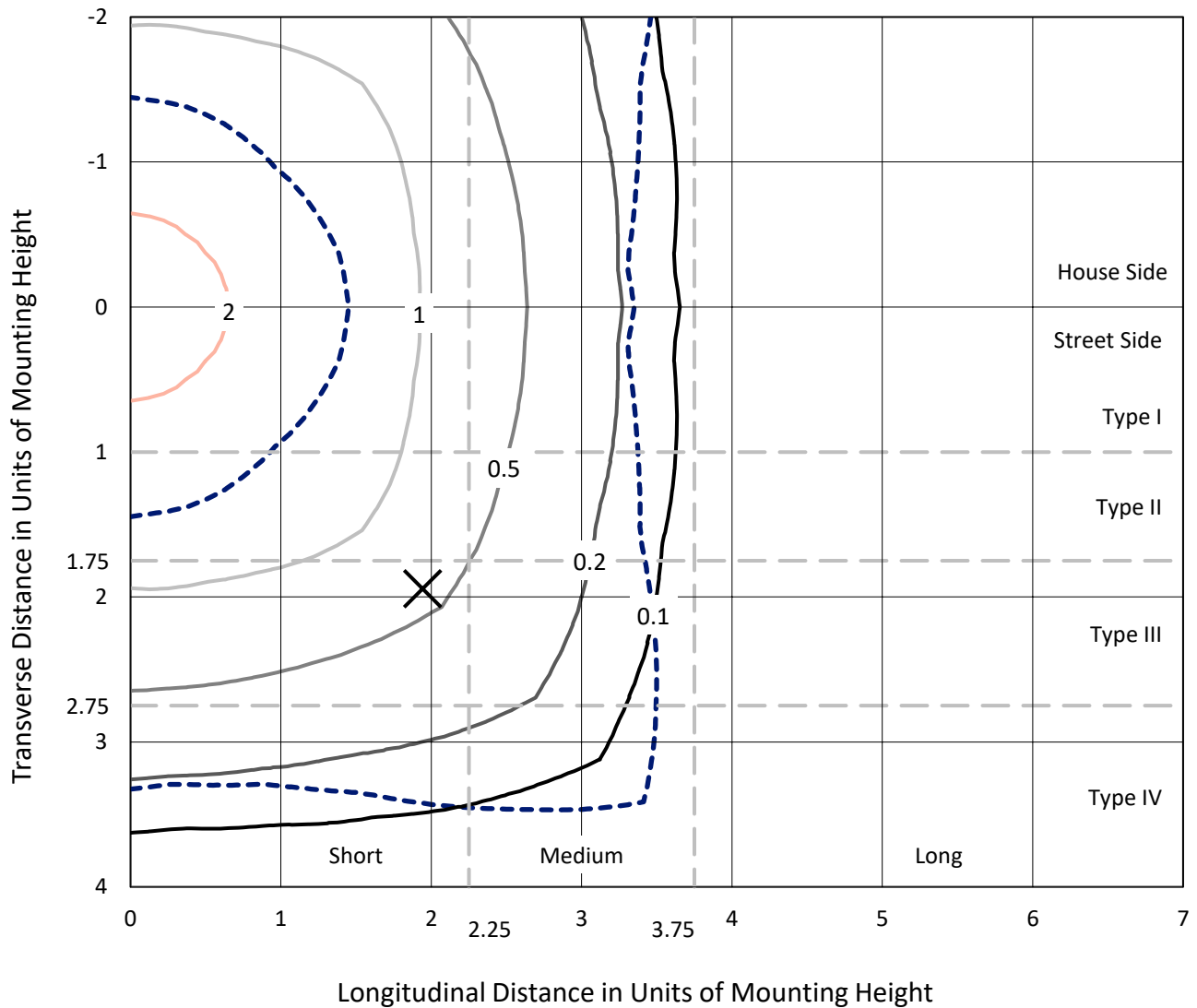
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

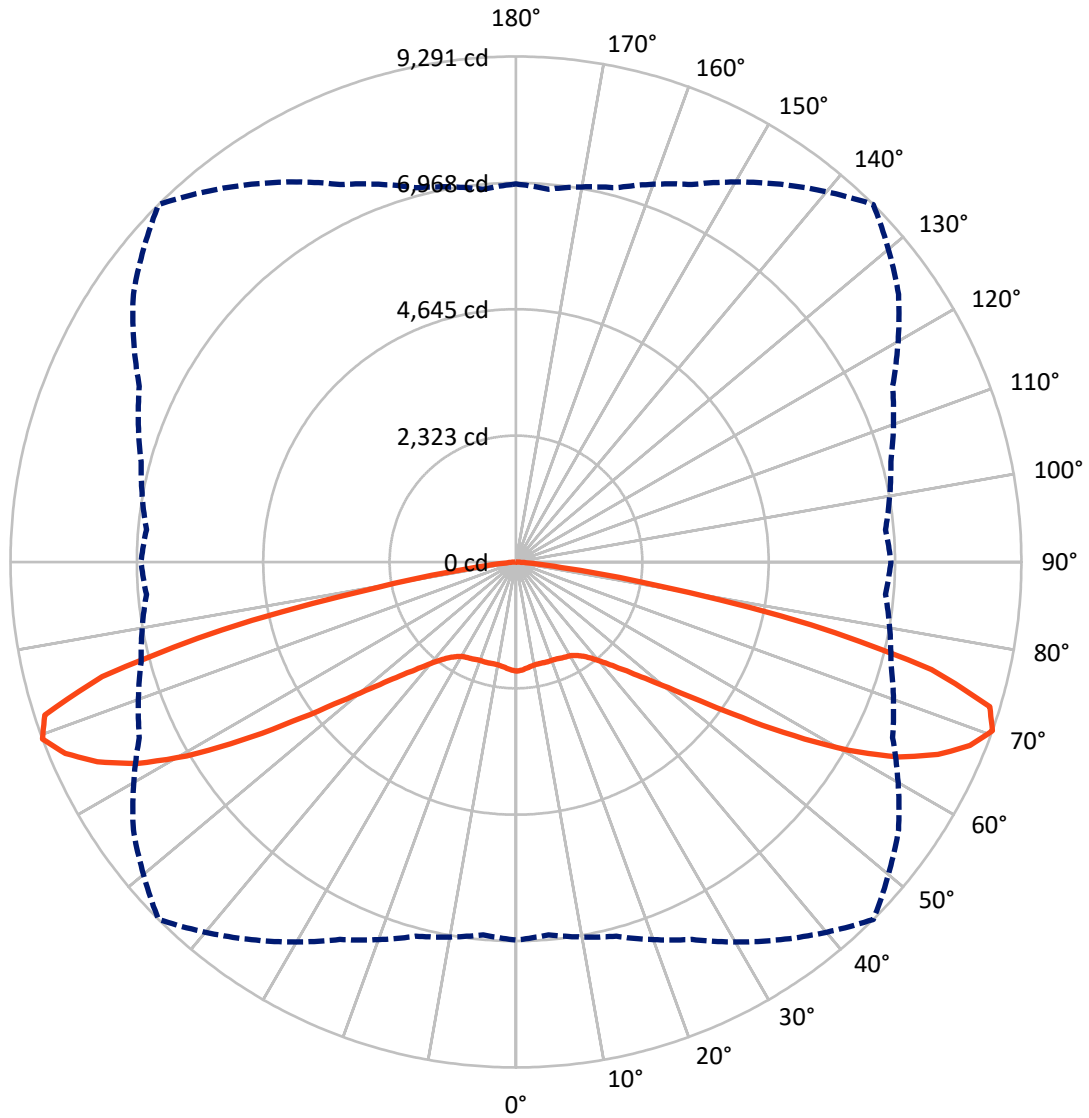
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	11000.0	0.0	11000.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11000.0	0.0	11000.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22000.0	0.0	22000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	0.8
10°-20°	548.2	2.5
20°-30°	912.2	4.1
30°-40°	1379.5	6.3
40°-50°	2292.4	10.4
50°-60°	4325.7	19.7
60°-70°	7304.2	33.2
70°-80°	4799.6	21.8
80°-90°	251.5	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°	22000.0	100.0
0°-180°	22000.0	100.0

Coefficient of Utilization



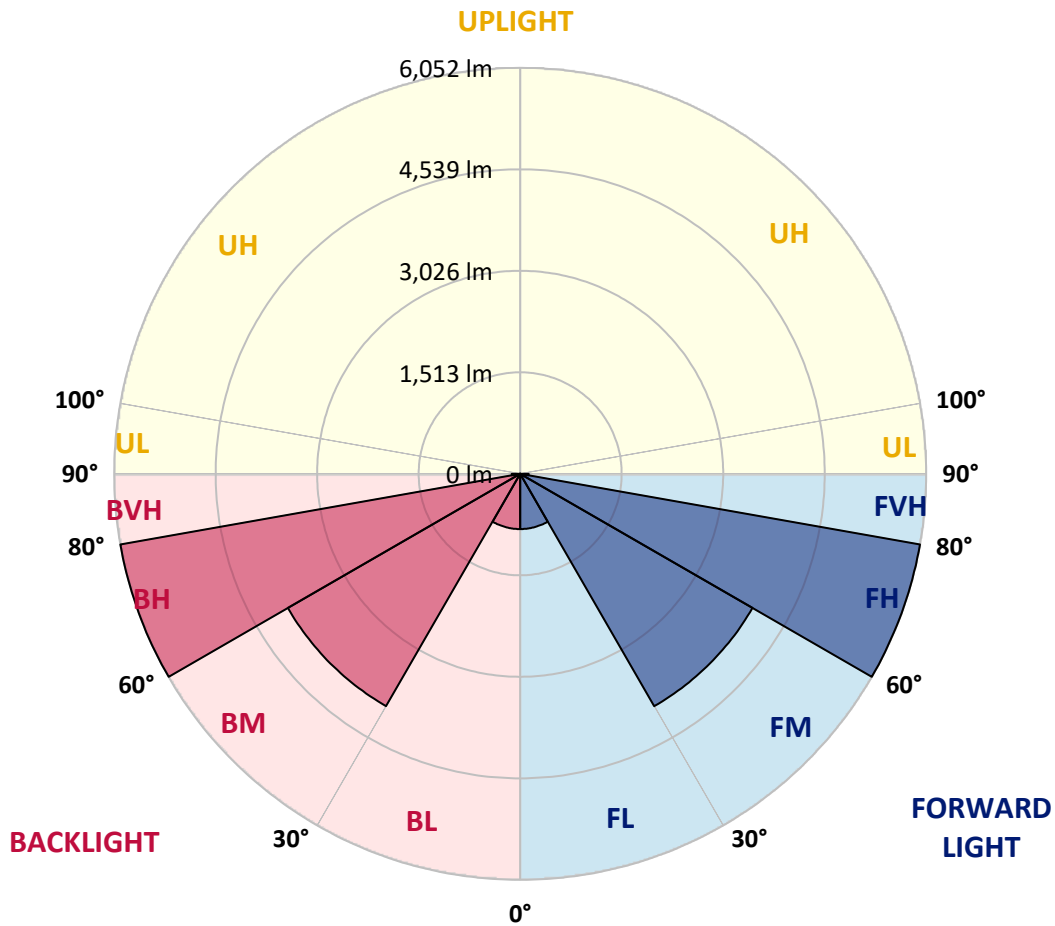
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	823.5	3.7			
FM	(30°-60°)	3998.9	18.2			
FH	(60°-80°)	6051.9	27.5			G3/7500
FVH	(80°-90°)	125.7	0.6			G2/225
BL	(0°-30°)	823.5	3.7	B2/1000		
BM	(30°-60°)	3998.9	18.2	B3/5000		
BH	(60°-80°)	6051.9	27.5	B5		G3/7500
BVH	(80°-90°)	125.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8	2006.8
2.5°	1994.3	2000.0	1997.7	1993.1	1993.1	1989.7	1993.1	1995.4	1998.8	2001.1
5°	1968.0	1972.5	1971.4	1968.0	1969.1	1965.7	1968.0	1971.4	1973.7	1974.8
7.5°	1945.1	1949.7	1947.4	1941.7	1941.7	1938.2	1939.4	1942.8	1946.2	1947.4
10°	1939.4	1944.0	1937.1	1927.9	1924.5	1919.9	1921.1	1924.5	1931.4	1934.8
12.5°	1941.7	1945.1	1938.2	1924.5	1921.1	1916.5	1916.5	1919.9	1929.1	1933.7
15°	1948.5	1952.0	1941.7	1926.8	1923.4	1919.9	1918.8	1923.4	1933.7	1941.7
17.5°	1961.1	1964.5	1948.5	1927.9	1923.4	1924.5	1923.4	1926.8	1942.8	1957.7
20°	1972.5	1974.8	1953.1	1927.9	1923.4	1924.5	1923.4	1930.2	1950.8	1971.4
22.5°	1976.0	1978.3	1957.7	1935.9	1932.5	1933.7	1932.5	1939.4	1958.8	1979.4
25°	1977.1	1980.5	1964.5	1947.4	1953.1	1955.4	1953.1	1954.2	1969.1	1987.4
27.5°	1994.3	1998.8	1984.0	1969.1	1972.5	1971.4	1974.8	1978.3	1989.7	2008.0
30°	2029.7	2033.1	2020.6	2005.7	2003.4	1995.4	2005.7	2017.1	2029.7	2045.7
32.5°	2088.0	2094.9	2078.9	2062.9	2052.6	2048.0	2056.0	2075.5	2092.6	2109.8
35°	2185.2	2189.8	2174.9	2145.2	2126.9	2126.9	2133.8	2158.9	2186.4	2208.1
37.5°	2322.4	2328.2	2301.9	2266.4	2239.0	2239.0	2248.1	2274.4	2315.6	2346.5
40°	2489.4	2497.4	2464.2	2427.7	2401.4	2396.8	2408.2	2437.9	2476.8	2515.7
42.5°	2690.7	2699.8	2656.4	2624.3	2603.8	2603.8	2609.5	2636.9	2672.4	2720.4
45°	2947.9	2964.0	2904.5	2872.5	2853.0	2857.6	2861.0	2885.1	2917.1	2972.0
47.5°	3254.4	3270.4	3207.5	3174.4	3170.9	3192.7	3178.9	3196.1	3213.2	3276.1
50°	3602.0	3629.5	3586.0	3583.7	3590.6	3630.6	3598.6	3607.7	3588.3	3628.3
52.5°	4027.4	4067.4	4059.4	4073.1	4149.8	4232.1	4158.9	4126.9	4053.7	4066.3
55°	4543.1	4603.7	4615.2	4697.5	4871.3	5039.4	4883.9	4754.7	4599.2	4570.6
57.5°	5129.7	5177.8	5232.7	5400.8	5725.5	6024.0	5725.5	5439.6	5194.9	5136.6
60°	5761.0	5820.4	5873.0	6121.2	6603.7	7023.4	6594.6	6140.6	5817.0	5738.1
62.5°	6439.0	6515.7	6552.3	6827.8	7390.4	7891.3	7398.4	6848.4	6489.4	6404.7
65°	7089.7	7152.6	7193.8	7487.6	8025.1	8527.1	8061.7	7519.7	7150.3	7039.4
67.5°	7392.7	7427.0	7527.7	7860.4	8427.6	9000.5	8523.7	7895.9	7483.1	7288.7
70°	6949.1	6879.3	7121.7	7654.6	8475.6	9290.9	8585.4	7638.6	7133.2	6817.5
72.5°	5369.9	5249.8	5670.6	6582.0	7926.7	9105.7	7981.6	6633.4	5932.5	5292.1
75°	2921.6	2785.6	3366.5	4519.1	6321.3	7892.4	6466.5	4648.3	3748.4	2899.9
77.5°	824.5	773.0	1241.8	2186.4	3802.1	5541.4	3948.5	2234.4	1472.8	873.6
80°	252.7	244.7	331.6	658.7	1614.6	2654.1	1551.7	666.7	422.0	266.4
82.5°	149.8	137.2	164.7	240.1	411.7	833.6	400.2	250.4	201.3	134.9
85°	85.8	80.0	97.2	116.6	138.4	177.2	115.5	118.9	107.5	72.0
87.5°	35.4	32.0	37.7	36.6	32.0	41.2	30.9	36.6	43.5	28.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2006.8
2000.0
1974.8
1947.4
1934.8
1934.8
1942.8
1957.7
1972.5
1979.4
1986.3
2003.4
2042.3
2102.9
2200.1
2335.0
2503.1
2717.0
2969.7
3257.8
3604.3
4024.0
4526.0
5095.4
5669.5
6336.1
6984.5
7291.0
6893.0
5451.1
3088.6
970.8
281.3
146.4
75.5
26.3
0.0

OF REPORT)