

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: P940960

Luminaire Tested: **GALN-SB4B-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940960
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-740-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24151 lumens
Efficiency: N/A
Efficacy: 164.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

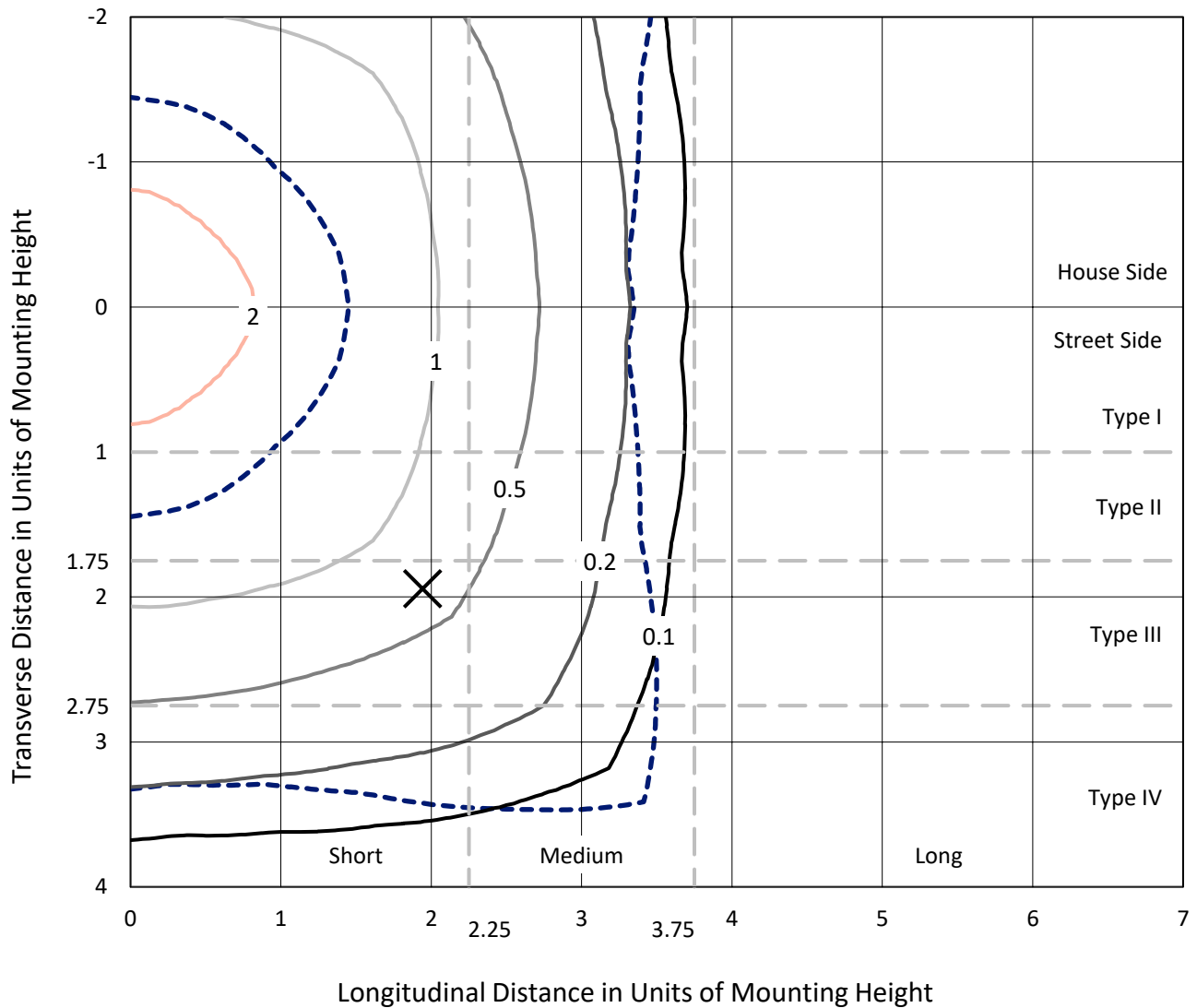
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

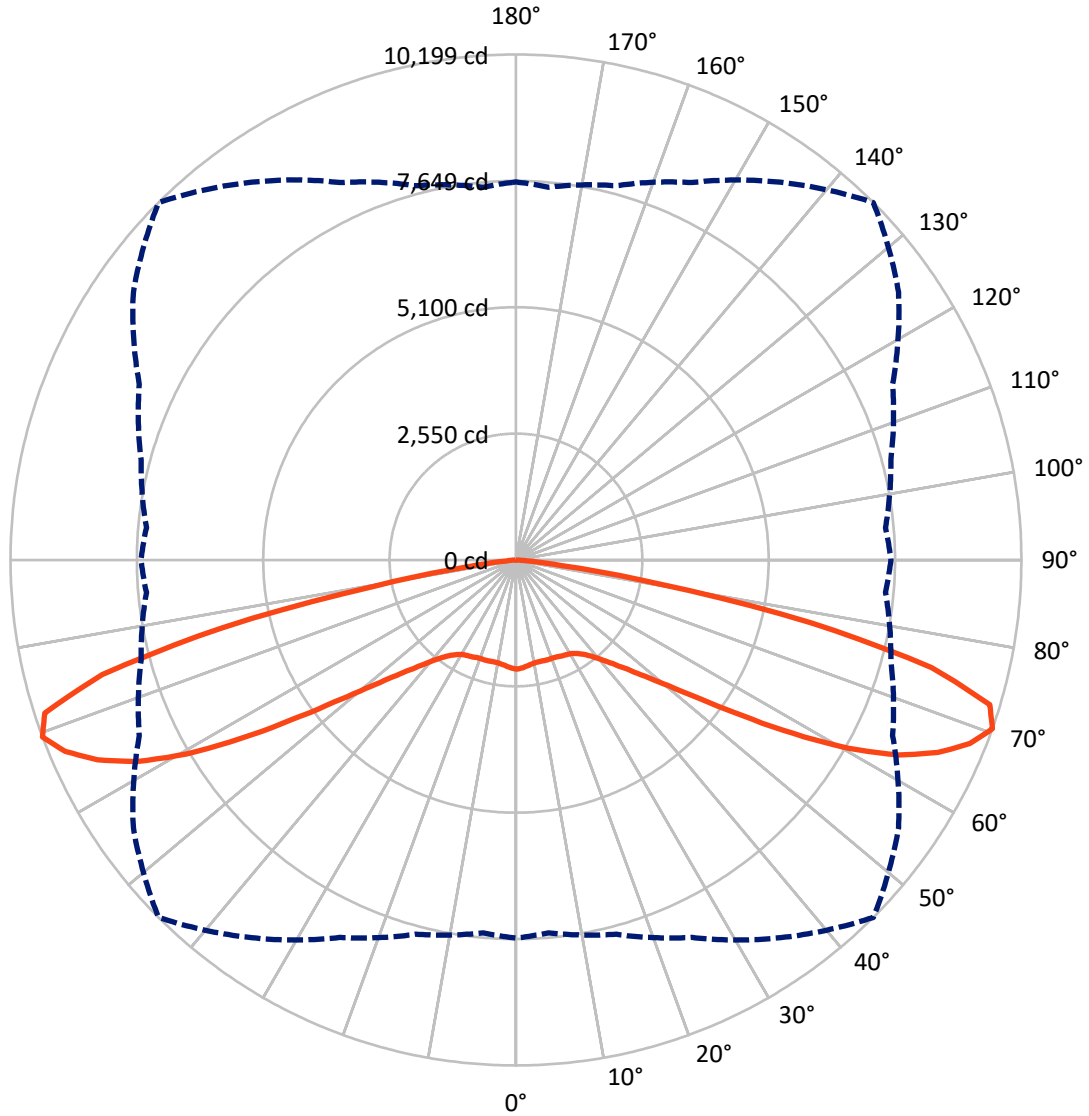
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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
House Side	Lumens	12075.5	0.0	12075.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12075.5	0.0	12075.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24151.0	0.0	24151.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.9	0.8
10°-20°	601.7	2.5
20°-30°	1001.4	4.1
30°-40°	1514.4	6.3
40°-50°	2516.6	10.4
50°-60°	4748.7	19.7
60°-70°	8018.3	33.2
70°-80°	5268.9	21.8
80°-90°	276.0	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°	24151.0	100.0
0°-180°	24151.0	100.0



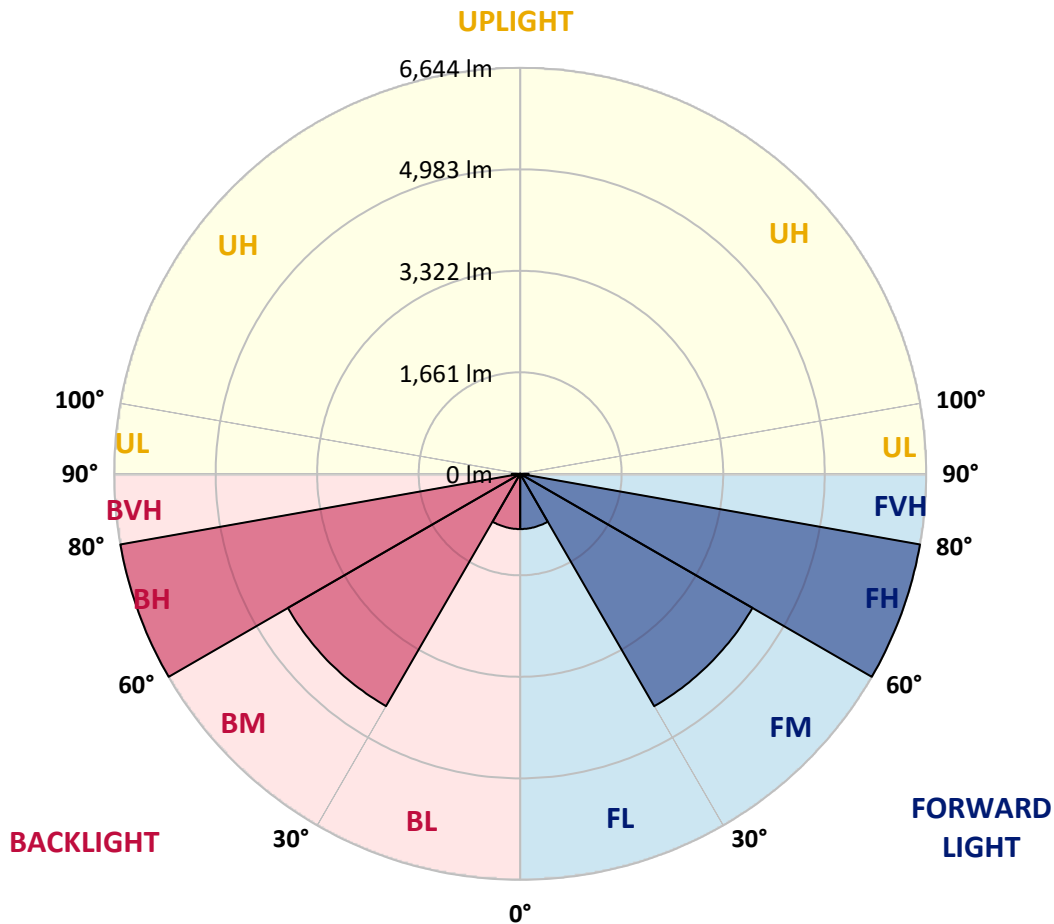
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	904.0	3.7			
FM (30°-60°)	4389.8	18.2			
FH (60°-80°)	6643.6	27.5			G3/7500
FVH (80°-90°)	138.0	0.6			G2/225
BL (0°-30°)	904.0	3.7	B2/1000		
BM (30°-60°)	4389.8	18.2	B3/5000		
BH (60°-80°)	6643.6	27.5	B5		G3/7500
BVH (80°-90°)	138.0	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°	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1
2.5°	2189.2	2195.5	2193.0	2188.0	2188.0	2184.2	2188.0	2190.5	2194.3	2196.8
5°	2160.4	2165.4	2164.1	2160.4	2161.6	2157.9	2160.4	2164.1	2166.7	2167.9
7.5°	2135.3	2140.3	2137.8	2131.5	2131.5	2127.7	2129.0	2132.8	2136.5	2137.8
10°	2129.0	2134.0	2126.5	2116.4	2112.7	2107.7	2108.9	2112.7	2120.2	2124.0
12.5°	2131.5	2135.3	2127.7	2112.7	2108.9	2103.9	2103.9	2107.7	2117.7	2122.7
15°	2139.0	2142.8	2131.5	2115.2	2111.4	2107.7	2106.4	2111.4	2122.7	2131.5
17.5°	2152.8	2156.6	2139.0	2116.4	2111.4	2112.7	2111.4	2115.2	2132.8	2149.1
20°	2165.4	2167.9	2144.1	2116.4	2111.4	2112.7	2111.4	2119.0	2141.5	2164.1
22.5°	2169.2	2171.7	2149.1	2125.2	2121.5	2122.7	2121.5	2129.0	2150.3	2172.9
25°	2170.4	2174.2	2156.6	2137.8	2144.1	2146.6	2144.1	2145.3	2161.6	2181.7
27.5°	2189.2	2194.3	2178.0	2161.6	2165.4	2164.1	2167.9	2171.7	2184.2	2204.3
30°	2228.2	2231.9	2218.1	2201.8	2199.3	2190.5	2201.8	2214.4	2228.2	2245.7
32.5°	2292.2	2299.7	2282.1	2264.6	2253.3	2248.2	2257.0	2278.4	2297.2	2316.0
35°	2398.9	2403.9	2387.6	2354.9	2334.9	2334.9	2342.4	2370.0	2400.1	2424.0
37.5°	2549.5	2555.8	2526.9	2488.0	2457.9	2457.9	2467.9	2496.8	2542.0	2575.9
40°	2732.8	2741.6	2705.2	2665.0	2636.1	2631.1	2643.7	2676.3	2719.0	2761.7
42.5°	2953.7	2963.8	2916.1	2880.9	2858.3	2858.3	2864.6	2894.7	2933.6	2986.4
45°	3236.2	3253.7	3188.5	3153.3	3132.0	3137.0	3140.8	3167.1	3202.3	3262.5
47.5°	3572.6	3590.2	3521.1	3484.7	3481.0	3504.8	3489.7	3508.6	3527.4	3596.4
50°	3954.2	3984.3	3936.6	3934.1	3941.7	3985.6	3950.4	3960.5	3939.1	3983.1
52.5°	4421.2	4465.1	4456.3	4471.4	4555.5	4645.9	4565.5	4530.4	4450.1	4463.9
55°	4987.3	5053.9	5066.4	5156.8	5347.6	5532.1	5361.4	5219.6	5048.8	5017.4
57.5°	5631.3	5684.0	5744.3	5928.8	6285.3	6612.9	6285.3	5971.5	5702.8	5638.8
60°	6324.2	6389.5	6447.2	6719.6	7249.4	7710.1	7239.3	6741.0	6385.7	6299.1
62.5°	7068.6	7152.7	7192.9	7495.4	8113.0	8662.8	8121.8	7518.0	7123.8	7031.0
65°	7782.9	7851.9	7897.1	8219.7	8809.7	9360.8	8849.9	8254.9	7849.4	7727.6
67.5°	8115.5	8153.2	8263.7	8629.0	9251.6	9880.5	9357.0	8667.9	8214.7	8001.3
70°	7628.5	7551.9	7818.0	8403.0	9304.3	10199.3	9424.8	8385.4	7830.6	7484.1
72.5°	5894.9	5763.1	6225.0	7225.5	8701.8	9996.0	8762.0	7282.0	6512.5	5809.5
75°	3207.3	3057.9	3695.6	4961.0	6939.3	8664.1	7098.7	5102.8	4114.9	3183.4
77.5°	905.1	848.6	1363.3	2400.1	4173.9	6083.2	4334.6	2452.9	1616.8	959.1
80°	277.4	268.6	364.0	723.1	1772.5	2913.6	1703.4	731.8	463.2	292.5
82.5°	164.4	150.6	180.8	263.6	451.9	915.1	439.4	274.9	220.9	148.1
85°	94.1	87.9	106.7	128.0	151.9	194.6	126.8	130.6	118.0	79.1
87.5°	38.9	35.1	41.4	40.2	35.1	45.2	33.9	40.2	47.7	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2203.1
2195.5
2167.9
2137.8
2124.0
2124.0
2132.8
2149.1
2165.4
2172.9
2180.5
2199.3
2242.0
2308.5
2415.2
2563.3
2747.9
2982.6
3260.0
3576.4
3956.7
4417.4
4968.5
5593.6
6223.8
6955.6
7667.4
8003.8
7567.0
5984.0
3390.6
1065.8
308.8
160.7
82.9
28.9
0.0

OF REPORT)