

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: P941470

Luminaire Tested: **GALN-SB5A-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941470
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-SB5A-740-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24249 lumens
Efficiency: N/A
Efficacy: 171.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

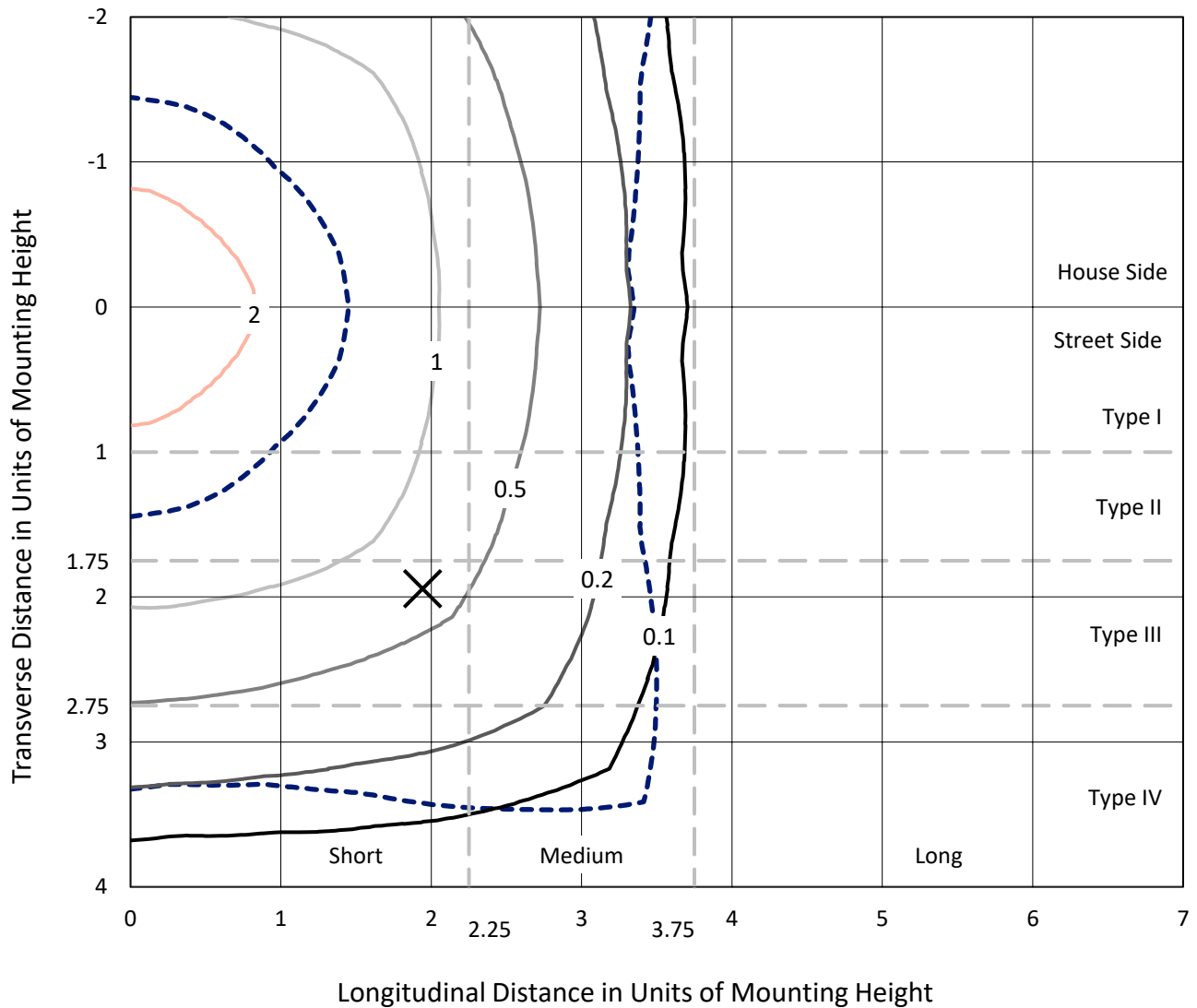
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

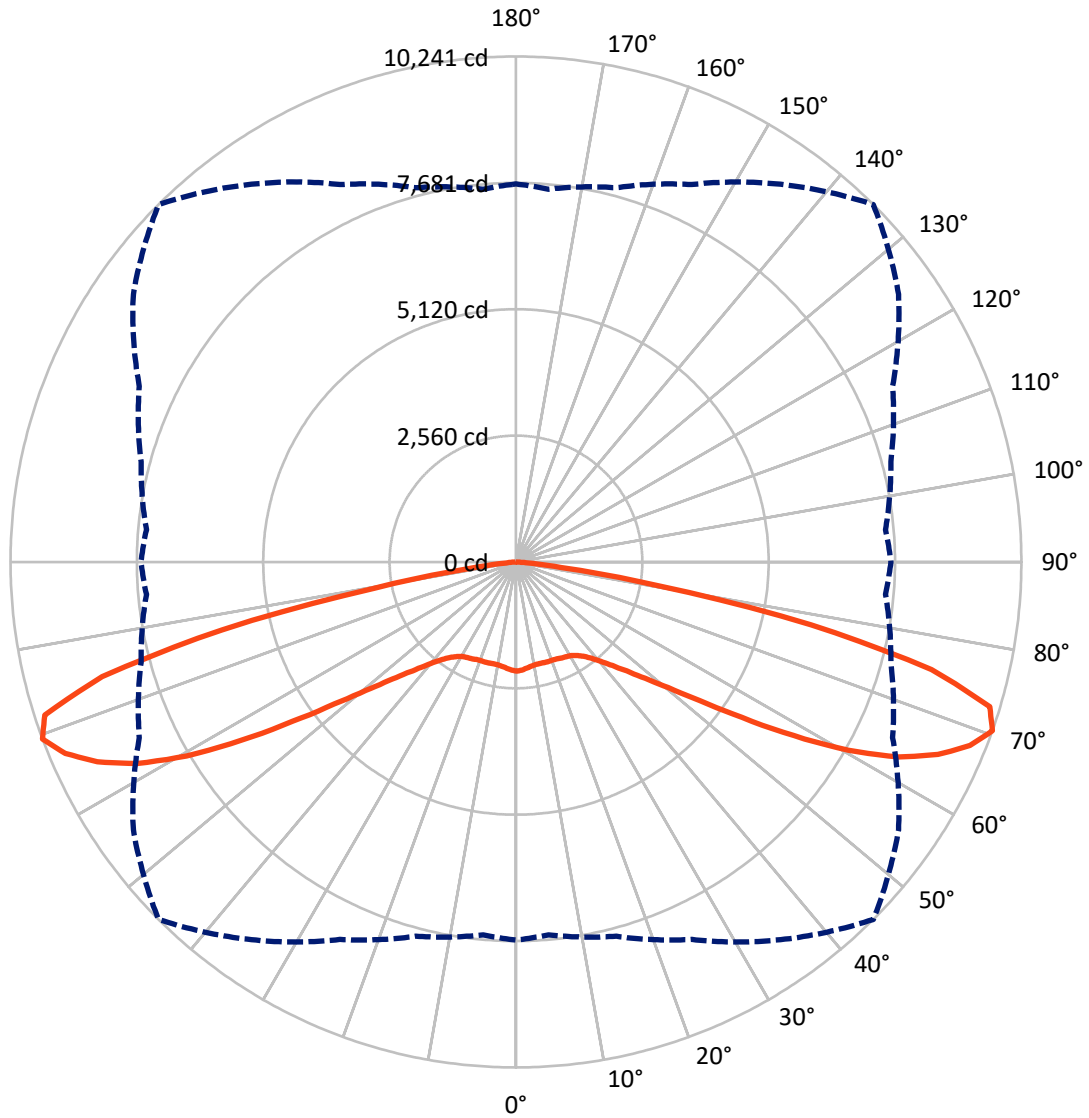
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	12124.5	0.0	12124.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12124.5	0.0	12124.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24249.0	0.0	24249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.8	0.8
10°-20°	604.2	2.5
20°-30°	1005.5	4.1
30°-40°	1520.5	6.3
40°-50°	2526.8	10.4
50°-60°	4768.0	19.7
60°-70°	8050.9	33.2
70°-80°	5290.3	21.8
80°-90°	277.2	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°	24249.0	100.0
0°-180°	24249.0	100.0

Coefficient of Utilization



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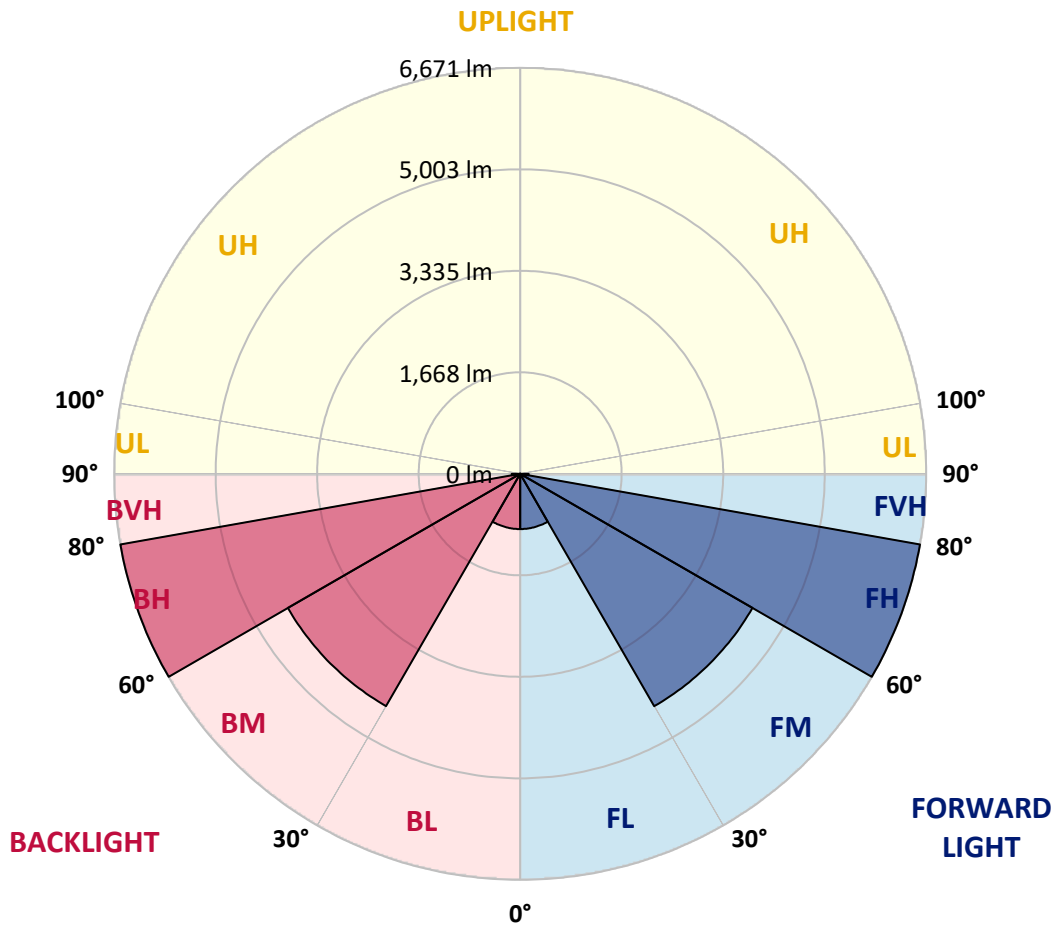
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	907.7	3.7			
FM (30°-60°)	4407.6	18.2			
FH (60°-80°)	6670.6	27.5			G3/7500
FVH (80°-90°)	138.6	0.6			G2/225
BL (0°-30°)	907.7	3.7	B2/1000		
BM (30°-60°)	4407.6	18.2	B3/5000		
BH (60°-80°)	6670.6	27.5	B5		G3/7500
BVH (80°-90°)	138.6	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°	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0
2.5°	2198.1	2204.4	2201.9	2196.9	2196.9	2193.1	2196.9	2199.4	2203.2	2205.7
5°	2169.1	2174.2	2172.9	2169.1	2170.4	2166.6	2169.1	2172.9	2175.4	2176.7
7.5°	2143.9	2149.0	2146.5	2140.2	2140.2	2136.4	2137.6	2141.4	2145.2	2146.5
10°	2137.6	2142.7	2135.1	2125.0	2121.2	2116.2	2117.5	2121.2	2128.8	2132.6
12.5°	2140.2	2143.9	2136.4	2121.2	2117.5	2112.4	2112.4	2116.2	2126.3	2131.3
15°	2147.7	2151.5	2140.2	2123.8	2120.0	2116.2	2114.9	2120.0	2131.3	2140.2
17.5°	2161.6	2165.4	2147.7	2125.0	2120.0	2121.2	2120.0	2123.8	2141.4	2157.8
20°	2174.2	2176.7	2152.8	2125.0	2120.0	2121.2	2120.0	2127.6	2150.2	2172.9
22.5°	2178.0	2180.5	2157.8	2133.9	2130.1	2131.3	2130.1	2137.6	2159.1	2181.7
25°	2179.2	2183.0	2165.4	2146.5	2152.8	2155.3	2152.8	2154.0	2170.4	2190.6
27.5°	2198.1	2203.2	2186.8	2170.4	2174.2	2172.9	2176.7	2180.5	2193.1	2213.3
30°	2237.2	2241.0	2227.1	2210.7	2208.2	2199.4	2210.7	2223.3	2237.2	2254.9
32.5°	2301.5	2309.0	2291.4	2273.8	2262.4	2257.4	2266.2	2287.6	2306.5	2325.4
35°	2408.6	2413.7	2397.3	2364.5	2344.3	2344.3	2351.9	2379.6	2409.9	2433.8
37.5°	2559.9	2566.2	2537.2	2498.1	2467.9	2467.9	2477.9	2506.9	2552.3	2586.3
40°	2743.9	2752.7	2716.2	2675.8	2646.8	2641.8	2654.4	2687.2	2730.0	2772.9
42.5°	2965.7	2975.8	2927.9	2892.6	2869.9	2869.9	2876.2	2906.5	2945.5	2998.5
45°	3249.3	3266.9	3201.4	3166.1	3144.7	3149.7	3153.5	3180.0	3215.3	3275.8
47.5°	3587.1	3604.7	3535.4	3498.9	3495.1	3519.0	3503.9	3522.8	3541.7	3611.0
50°	3970.3	4000.5	3952.6	3950.1	3957.6	4001.8	3966.5	3976.6	3955.1	3999.2
52.5°	4439.1	4483.2	4474.4	4489.5	4574.0	4664.7	4584.1	4548.8	4468.1	4482.0
55°	5007.6	5074.4	5087.0	5177.7	5369.3	5554.6	5383.2	5240.7	5069.3	5037.8
57.5°	5654.1	5707.1	5767.6	5952.9	6310.8	6639.8	6310.8	5995.7	5726.0	5661.7
60°	6349.9	6415.4	6473.4	6746.9	7278.8	7741.4	7268.7	6768.3	6411.6	6324.7
62.5°	7097.3	7181.7	7222.1	7525.8	8145.9	8698.0	8154.8	7548.5	7152.8	7059.5
65°	7814.5	7883.8	7929.2	8253.1	8845.5	9398.8	8885.8	8288.4	7881.3	7759.0
67.5°	8148.5	8186.3	8297.2	8664.0	9289.1	9920.6	9395.0	8703.0	8248.0	8033.8
70°	7659.4	7582.5	7849.8	8437.1	9342.1	10240.7	9463.1	8419.5	7862.4	7514.5
72.5°	5918.8	5786.5	6250.3	7254.8	8737.1	10036.5	8797.6	7311.6	6538.9	5833.1
75°	3220.3	3070.3	3710.6	4981.1	6967.5	8699.3	7127.5	5123.5	4131.6	3196.4
77.5°	908.7	852.0	1368.8	2409.9	4190.8	6107.9	4352.2	2462.8	1623.4	962.9
80°	278.5	269.7	365.5	726.0	1779.7	2925.4	1710.4	734.8	465.1	293.7
82.5°	165.1	151.2	181.5	264.7	453.7	918.8	441.1	276.0	221.8	148.7
85°	94.5	88.2	107.1	128.6	152.5	195.4	127.3	131.1	118.5	79.4
87.5°	39.1	35.3	41.6	40.3	35.3	45.4	34.0	40.3	47.9	31.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2212.0
2204.4
2176.7
2146.5
2132.6
2132.6
2141.4
2157.8
2174.2
2181.7
2189.3
2208.2
2251.1
2317.9
2425.0
2573.7
2759.0
2994.7
3273.3
3590.9
3972.8
4435.3
4988.7
5616.3
6249.0
6983.9
7698.5
8036.3
7597.7
6008.3
3404.3
1070.1
310.1
161.3
83.2
29.0
0.0

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