

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: LUMARK

Report Number: P885002

Luminaire Tested: **NAV-SB6A-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24098 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

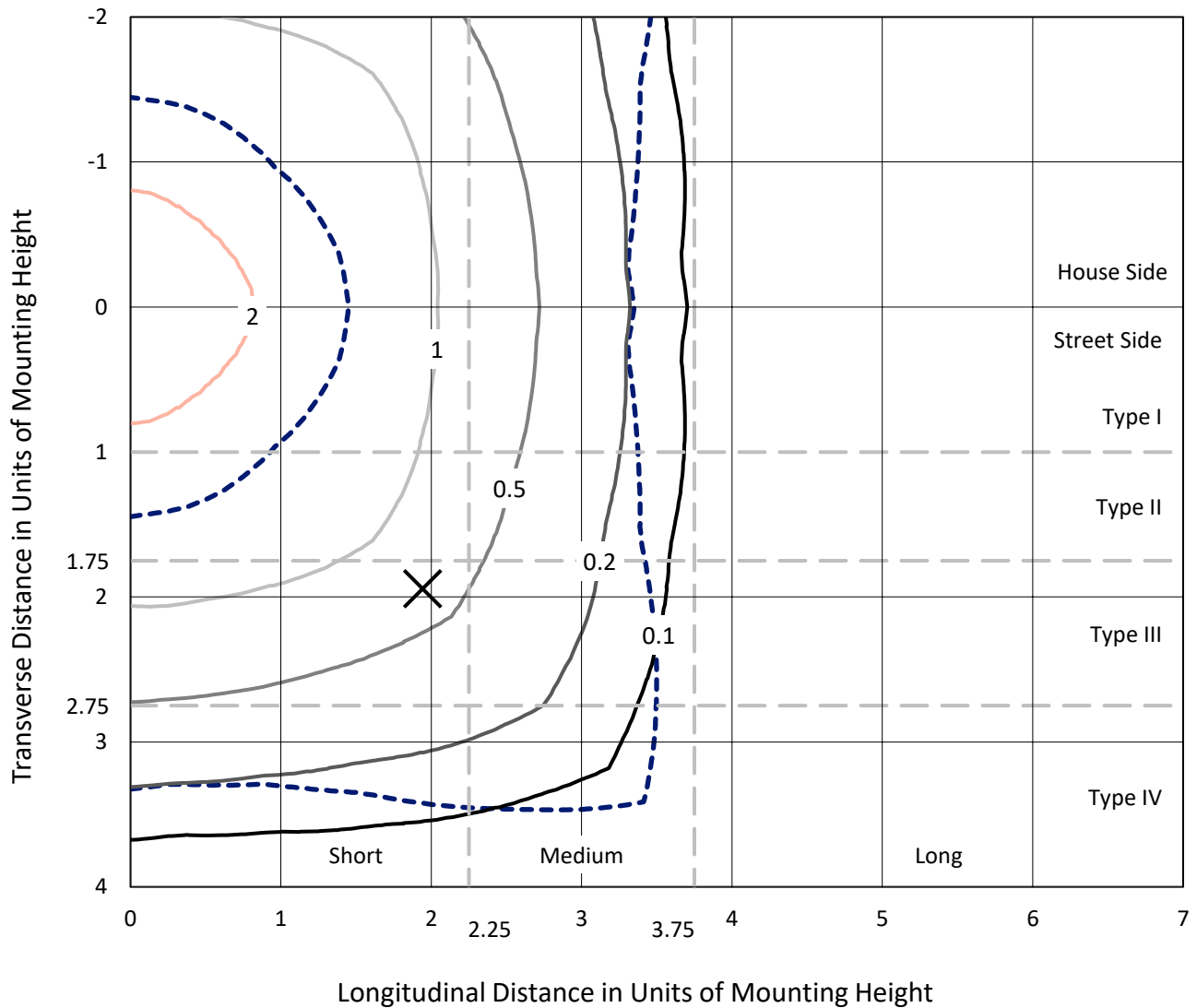
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

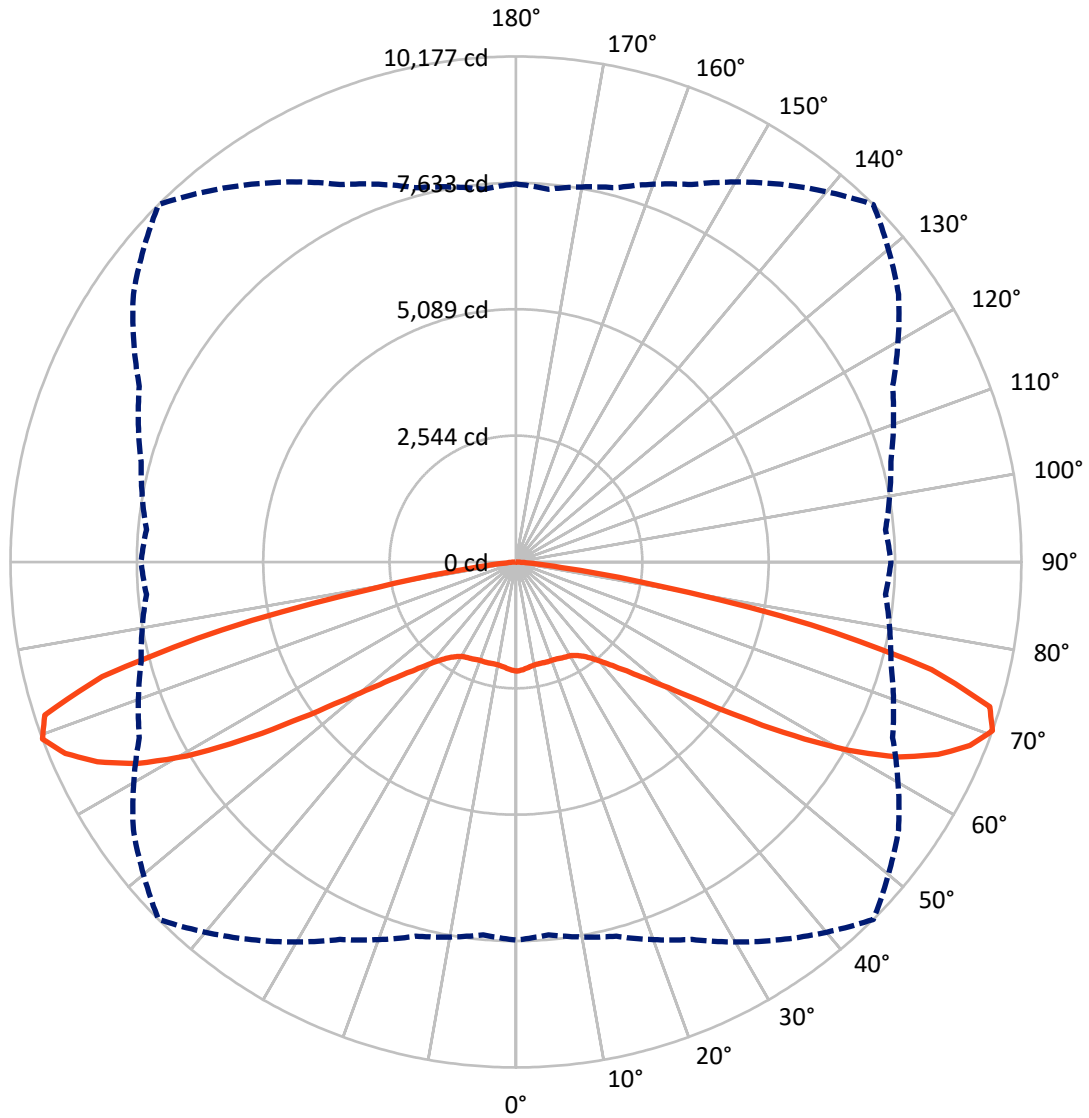
✕ Max cd
 - - - 1/2 Max cd



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	12049.0	0.0	12049.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12049.0	0.0	12049.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24098.0	0.0	24098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.5	0.8
10°-20°	600.4	2.5
20°-30°	999.2	4.1
30°-40°	1511.1	6.3
40°-50°	2511.1	10.4
50°-60°	4738.3	19.7
60°-70°	8000.8	33.2
70°-80°	5257.3	21.8
80°-90°	275.4	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°	24098.0	100.0
0°-180°	24098.0	100.0

Coefficient of Utilization



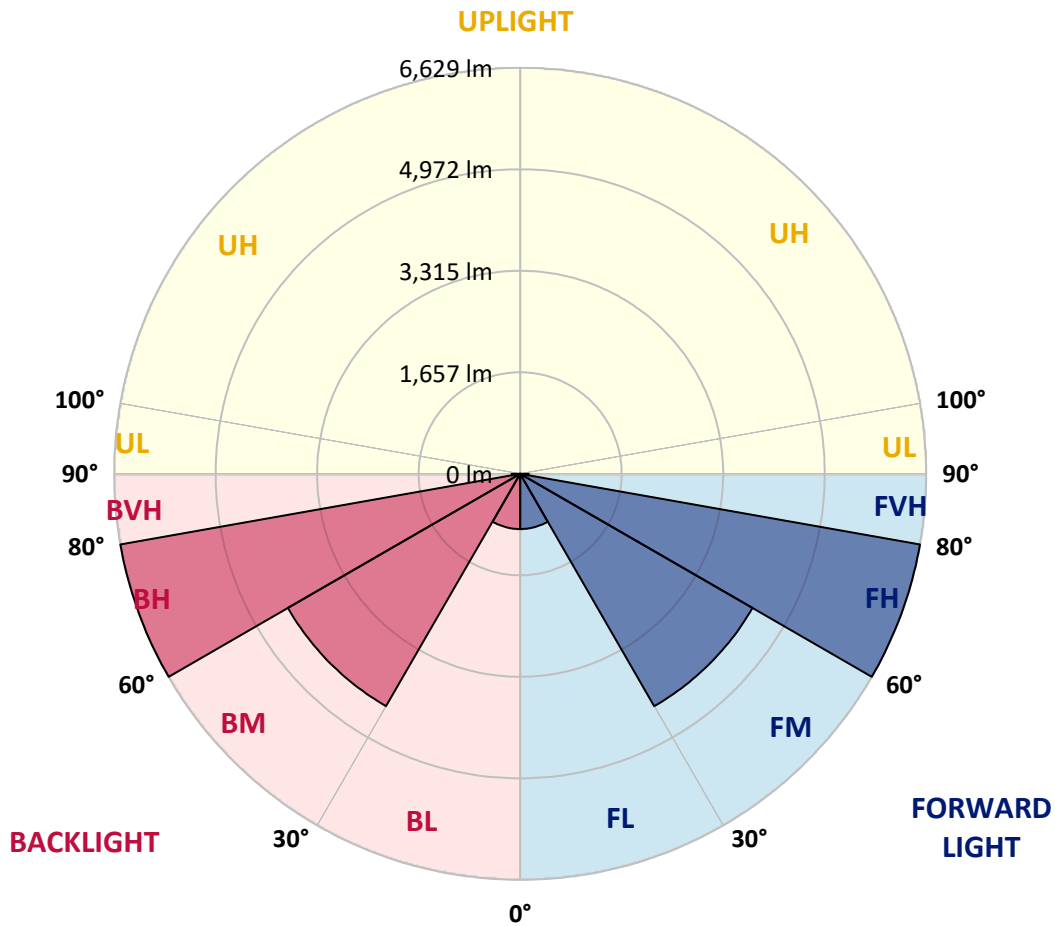
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.1	3.7			
FM (30°-60°)	4380.2	18.2			
FH (60°-80°)	6629.0	27.5			G3/7500
FVH (80°-90°)	137.7	0.6			G2/225
BL (0°-30°)	902.1	3.7	B2/1000		
BM (30°-60°)	4380.2	18.2	B3/5000		
BH (60°-80°)	6629.0	27.5	B5		G3/7500
BVH (80°-90°)	137.7	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°	90°
0°	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2
2.5°	2184.4	2190.7	2188.2	2183.2	2183.2	2179.4	2183.2	2185.7	2189.5	2192.0	2190.7
5°	2155.6	2160.6	2159.4	2155.6	2156.9	2153.1	2155.6	2159.4	2161.9	2163.2	2163.2
7.5°	2130.6	2135.6	2133.1	2126.8	2126.8	2123.1	2124.3	2128.1	2131.8	2133.1	2133.1
10°	2124.3	2129.3	2121.8	2111.8	2108.0	2103.0	2104.3	2108.0	2115.6	2119.3	2119.3
12.5°	2126.8	2130.6	2123.1	2108.0	2104.3	2099.3	2099.3	2103.0	2113.0	2118.1	2119.3
15°	2134.3	2138.1	2126.8	2110.5	2106.8	2103.0	2101.8	2106.8	2118.1	2126.8	2128.1
17.5°	2148.1	2151.9	2134.3	2111.8	2106.8	2108.0	2106.8	2110.5	2128.1	2144.4	2144.4
20°	2160.6	2163.2	2139.4	2111.8	2106.8	2108.0	2106.8	2114.3	2136.8	2159.4	2160.6
22.5°	2164.4	2166.9	2144.4	2120.6	2116.8	2118.1	2116.8	2124.3	2145.6	2168.2	2168.2
25°	2165.7	2169.4	2151.9	2133.1	2139.4	2141.9	2139.4	2140.6	2156.9	2176.9	2175.7
27.5°	2184.4	2189.5	2173.2	2156.9	2160.6	2159.4	2163.2	2166.9	2179.4	2199.5	2194.5
30°	2223.3	2227.0	2213.3	2197.0	2194.5	2185.7	2197.0	2209.5	2223.3	2240.8	2237.1
32.5°	2287.2	2294.7	2277.1	2259.6	2248.3	2243.3	2252.1	2273.4	2292.2	2311.0	2303.4
35°	2393.6	2398.6	2382.3	2349.8	2329.7	2329.7	2337.3	2364.8	2394.9	2418.7	2409.9
37.5°	2543.9	2550.2	2521.4	2482.6	2452.5	2452.5	2462.5	2491.3	2536.4	2570.2	2557.7
40°	2726.8	2735.6	2699.2	2659.2	2630.4	2625.3	2637.9	2670.4	2713.0	2755.6	2741.8
42.5°	2947.2	2957.3	2909.7	2874.6	2852.1	2852.1	2858.3	2888.4	2927.2	2979.8	2976.1
45°	3229.1	3246.6	3181.5	3146.4	3125.1	3130.1	3133.9	3160.2	3195.3	3255.4	3252.9
47.5°	3564.8	3582.3	3513.4	3477.1	3473.3	3497.1	3482.1	3500.9	3519.7	3588.6	3568.5
50°	3945.5	3975.6	3928.0	3925.5	3933.0	3976.8	3941.8	3951.8	3930.5	3974.3	3948.0
52.5°	4411.5	4455.3	4446.5	4461.6	4545.5	4635.7	4555.5	4520.4	4440.3	4454.1	4407.7
55°	4976.4	5042.8	5055.3	5145.5	5335.9	5520.0	5349.6	5208.1	5037.8	5006.4	4957.6
57.5°	5618.9	5671.5	5731.7	5915.8	6271.5	6598.4	6271.5	5958.4	5690.3	5626.4	5581.4
60°	6310.3	6375.5	6433.1	6704.9	7233.5	7693.2	7223.4	6726.2	6371.7	6285.3	6210.1
62.5°	7053.1	7137.0	7177.1	7479.0	8095.2	8643.8	8104.0	7501.5	7108.2	7015.5	6940.4
65°	7765.8	7834.7	7879.8	8201.7	8790.4	9340.3	8830.5	8236.8	7832.2	7710.7	7650.6
67.5°	8097.7	8135.3	8245.5	8610.0	9231.3	9858.8	9336.5	8648.8	8196.7	7983.7	7986.2
70°	7611.7	7535.3	7800.9	8384.6	9283.9	10177.0	9404.1	8367.0	7813.4	7467.7	7550.4
72.5°	5882.0	5750.5	6211.4	7209.7	8682.7	9974.0	8742.8	7266.0	6498.2	5796.8	5970.9
75°	3200.3	3051.2	3687.5	4950.1	6924.1	8645.1	7083.2	5091.6	4105.9	3176.5	3383.1
77.5°	903.1	846.7	1360.3	2394.9	4164.7	6069.9	4325.1	2447.5	1613.3	956.9	1063.4
80°	276.8	268.0	363.2	721.5	1768.6	2907.2	1699.7	730.2	462.2	291.8	308.1
82.5°	164.1	150.3	180.4	263.0	450.9	913.1	438.4	274.3	220.4	147.8	160.3
85°	93.9	87.7	106.5	127.8	151.6	194.1	126.5	130.3	117.7	78.9	82.7
87.5°	38.8	35.1	41.3	40.1	35.1	45.1	33.8	40.1	47.6	31.3	28.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)