

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: P882625

Luminaire Tested: **NAV-SB2C-830-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13212 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

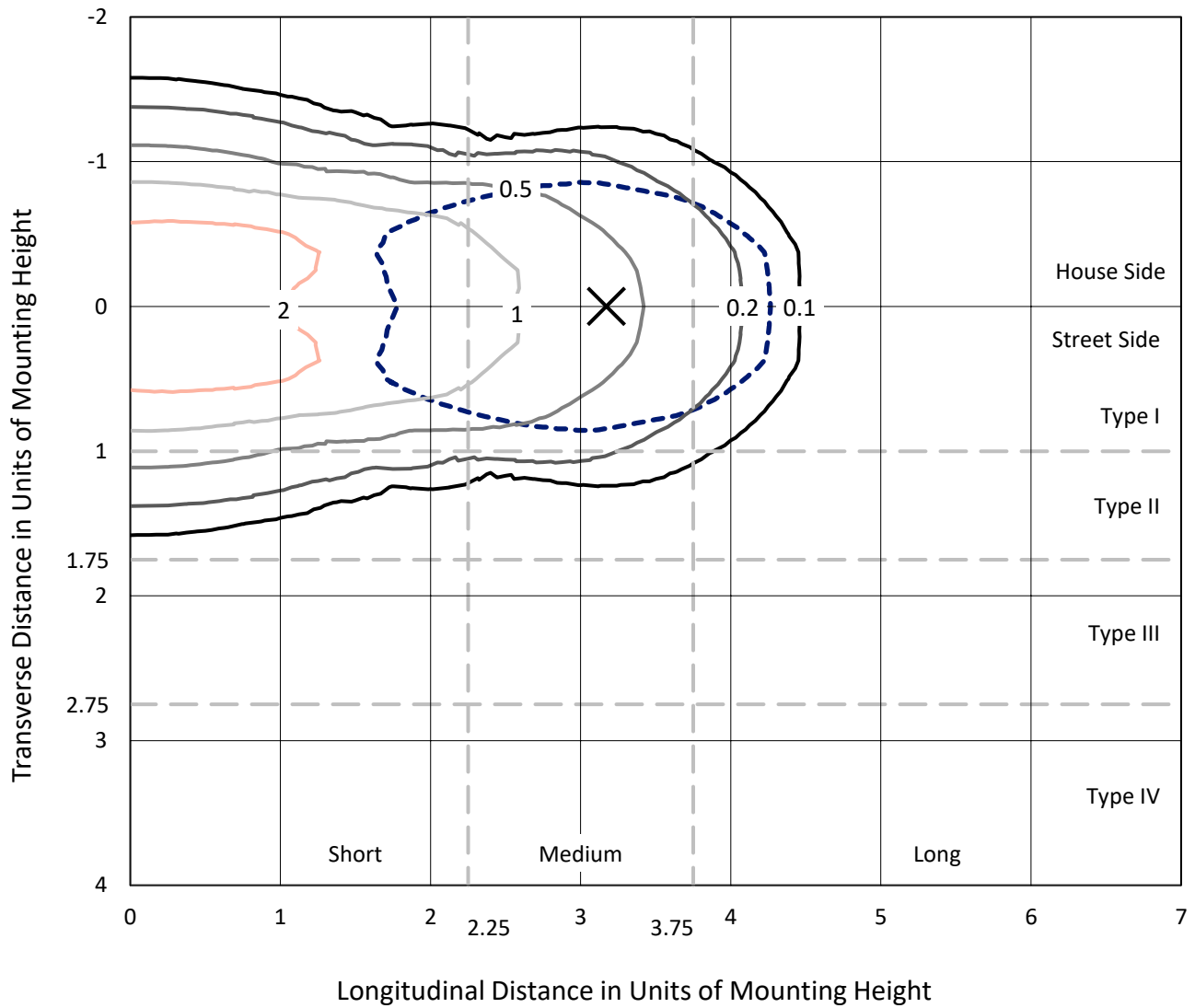
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

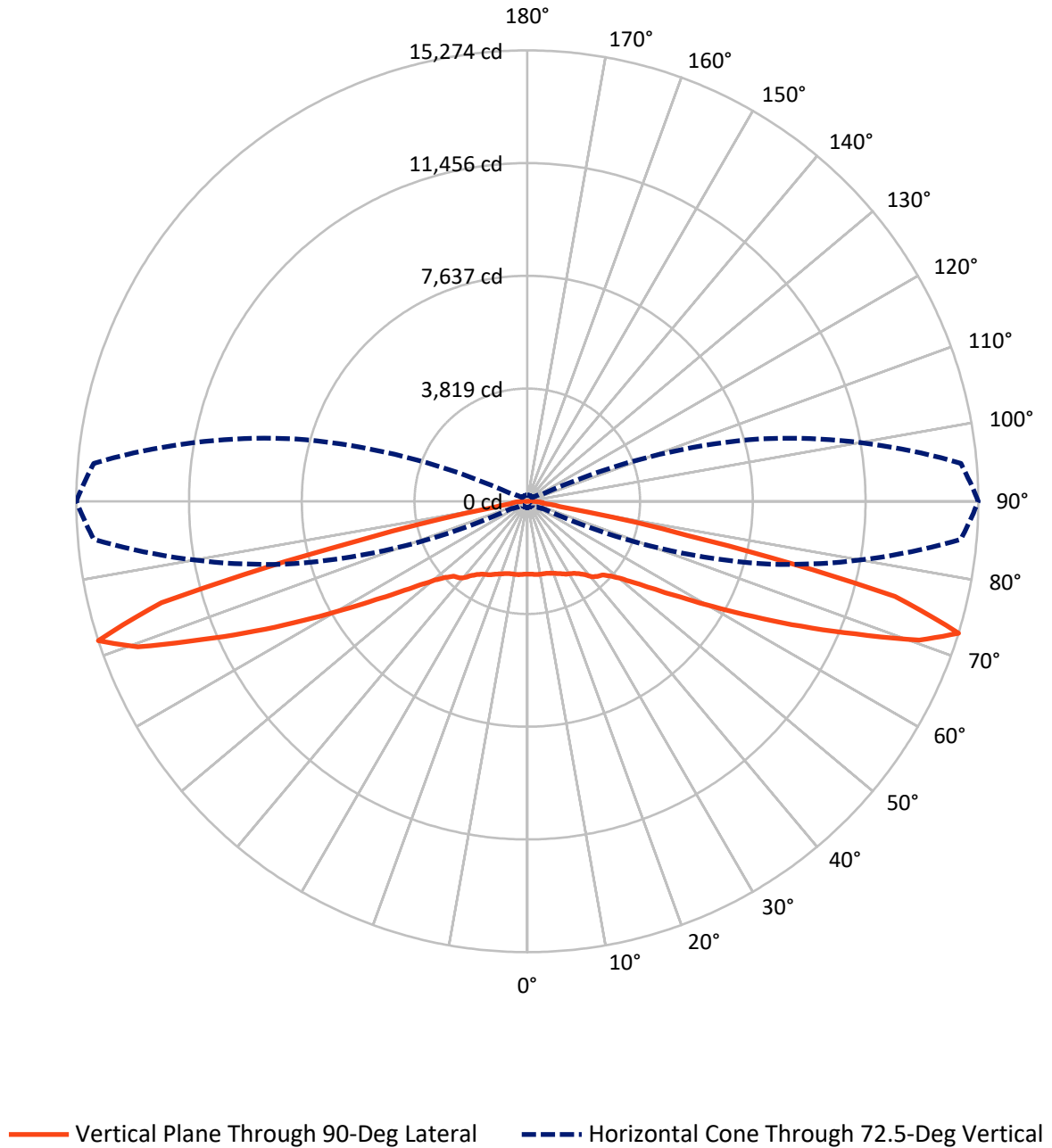
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6606.0	0.0	6606.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6606.0	0.0	6606.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13212.0	0.0	13212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	1.8
10°-20°	731.9	5.5
20°-30°	1220.4	9.2
30°-40°	1678.5	12.7
40°-50°	2049.9	15.5
50°-60°	2370.9	17.9
60°-70°	2826.9	21.4
70°-80°	1973.0	14.9
80°-90°	121.2	0.9
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°	13212.0	100.0
0°-180°	13212.0	100.0

Coefficient of Utilization



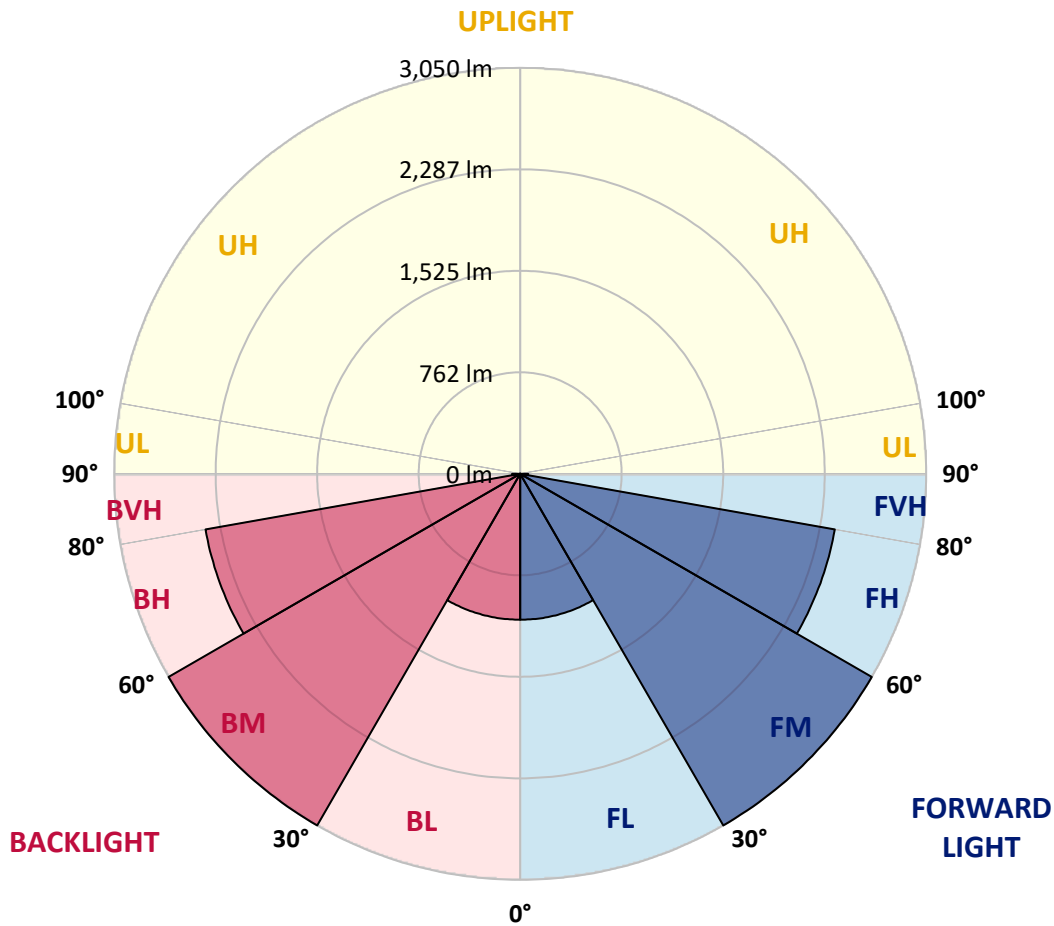
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1095.9	8.3			
FM (30°-60°)	3049.6	23.1			
FH (60°-80°)	2399.9	18.2			G2/5000
FVH (80°-90°)	60.6	0.5			G1/100
BL (0°-30°)	1095.9	8.3	B3/2500		
BM (30°-60°)	3049.6	23.1	B3/5000		
BH (60°-80°)	2399.9	18.2	B3/2500		G3/2500
BVH (80°-90°)	60.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2468.8	2468.8	2468.8	2468.8	2468.8	2468.8	2468.8	2468.8	2468.8	2468.8	2468.8
2.5°	2470.9	2473.7	2473.7	2471.6	2476.5	2472.3	2472.3	2470.2	2472.3	2470.2	2470.2
5°	2483.5	2487.1	2488.5	2487.8	2494.1	2490.6	2490.6	2487.8	2488.5	2486.4	2486.4
7.5°	2507.4	2512.3	2515.1	2518.7	2527.8	2523.6	2520.8	2512.3	2508.8	2503.2	2503.2
10°	2515.1	2520.8	2529.9	2548.1	2569.2	2569.9	2561.5	2540.4	2524.3	2511.6	2509.5
12.5°	2491.3	2499.0	2518.0	2555.2	2602.2	2621.2	2607.8	2572.7	2541.1	2518.7	2515.1
15°	2461.1	2469.5	2498.3	2554.5	2624.0	2668.2	2666.8	2620.5	2569.9	2534.8	2529.2
17.5°	2414.0	2422.5	2463.9	2542.5	2640.8	2713.9	2733.5	2685.8	2614.9	2567.8	2560.1
20°	2329.1	2336.8	2394.4	2504.6	2646.4	2762.3	2813.6	2771.4	2683.0	2619.1	2607.1
22.5°	2218.8	2230.8	2298.2	2439.3	2633.1	2812.9	2904.8	2876.1	2762.3	2673.8	2657.7
25°	2100.9	2113.5	2192.1	2359.3	2598.7	2849.4	3013.0	2994.7	2852.2	2741.9	2719.5
27.5°	1999.1	2012.4	2098.1	2279.9	2545.3	2863.4	3119.7	3128.8	2961.0	2817.1	2793.2
30°	1919.0	1931.6	2022.9	2216.0	2476.5	2849.4	3213.1	3276.3	3072.0	2882.4	2848.0
32.5°	1831.2	1847.4	1943.6	2138.1	2395.1	2815.7	3294.5	3435.7	3200.5	2952.6	2909.1
35°	1720.3	1735.0	1836.2	2031.4	2288.3	2761.6	3362.7	3612.6	3384.4	3059.3	3010.9
37.5°	1585.5	1599.5	1699.9	1897.9	2182.3	2685.8	3414.6	3812.0	3603.5	3213.1	3148.5
40°	1450.0	1463.3	1557.4	1749.1	2055.2	2588.9	3432.9	4007.2	3854.9	3424.4	3355.6
42.5°	1325.7	1337.6	1424.0	1602.3	1912.7	2465.3	3409.0	4177.2	4080.3	3571.9	3483.4
45°	1211.2	1221.8	1298.3	1464.7	1764.5	2315.0	3337.4	4359.7	4348.5	3677.2	3557.9
47.5°	1080.6	1091.2	1170.5	1331.3	1616.4	2138.8	3215.9	4539.5	4721.3	3916.0	3778.3
50°	921.2	930.4	1011.8	1177.5	1462.6	1951.3	3047.4	4680.6	5191.8	4277.6	4104.8
52.5°	732.4	742.2	821.5	987.2	1280.0	1749.8	2825.5	4772.6	5735.3	4805.6	4592.8
55°	544.9	551.9	620.7	769.6	1053.9	1520.2	2547.4	4798.6	6351.8	5527.4	5261.3
57.5°	395.3	399.5	443.8	554.7	799.1	1233.0	2209.7	4731.2	7085.5	6452.9	6117.9
60°	320.2	321.6	334.9	384.1	555.4	908.6	1801.7	4499.5	7881.8	7645.8	7223.8
62.5°	290.7	290.7	294.2	307.5	375.7	599.6	1308.1	4019.2	8735.6	9153.4	8588.1
65°	270.3	270.3	271.7	278.1	296.3	382.0	825.7	3237.0	9455.3	10919.3	10204.5
67.5°	252.1	252.8	252.1	254.2	264.7	282.3	478.9	2235.7	9842.9	12749.2	11977.5
70°	233.1	234.5	231.0	231.0	239.4	240.1	299.8	1226.0	9521.3	14282.7	14079.8
72.5°	210.6	212.8	207.1	205.7	212.1	209.2	225.4	588.4	8174.6	14740.5	15274.1
75°	191.0	193.8	181.2	177.6	177.6	175.5	183.3	301.9	5305.5	12024.5	12861.5
77.5°	173.4	179.1	158.7	147.5	144.6	138.3	149.6	184.7	2320.6	5645.4	5528.1
80°	143.2	151.0	130.6	117.3	112.3	105.3	118.0	129.2	690.2	1310.9	1255.5
82.5°	106.7	110.2	92.7	83.6	79.3	74.4	88.5	89.9	224.7	464.1	524.5
85°	68.1	69.5	56.9	49.2	47.0	44.9	56.2	49.2	85.7	341.3	495.7
87.5°	23.9	27.4	21.8	19.7	21.1	17.6	26.0	14.7	23.9	240.8	298.4
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)