

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: P883055

Luminaire Tested: **NAV-SB3B-722-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883055
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-SB3B-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13315 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

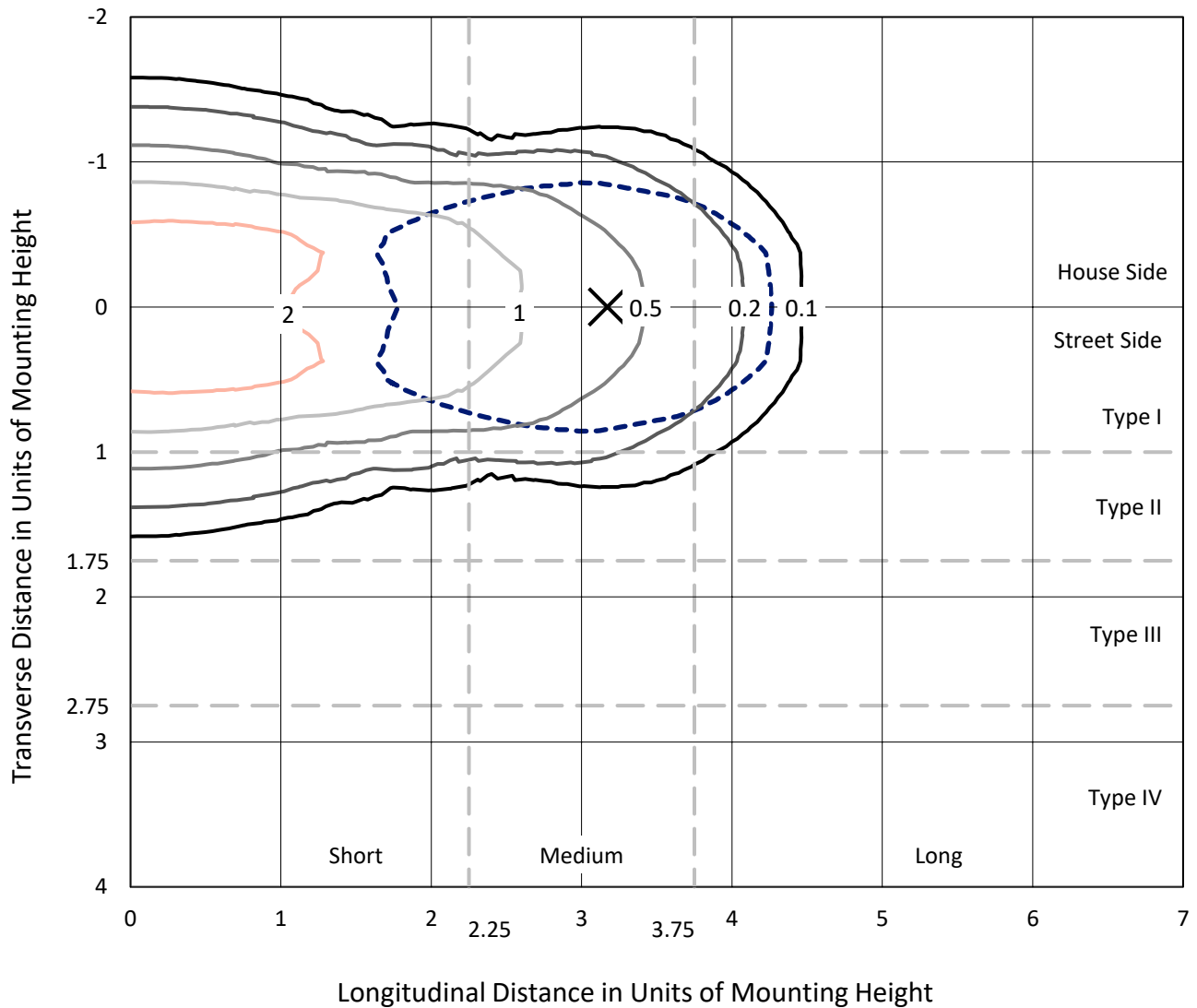
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

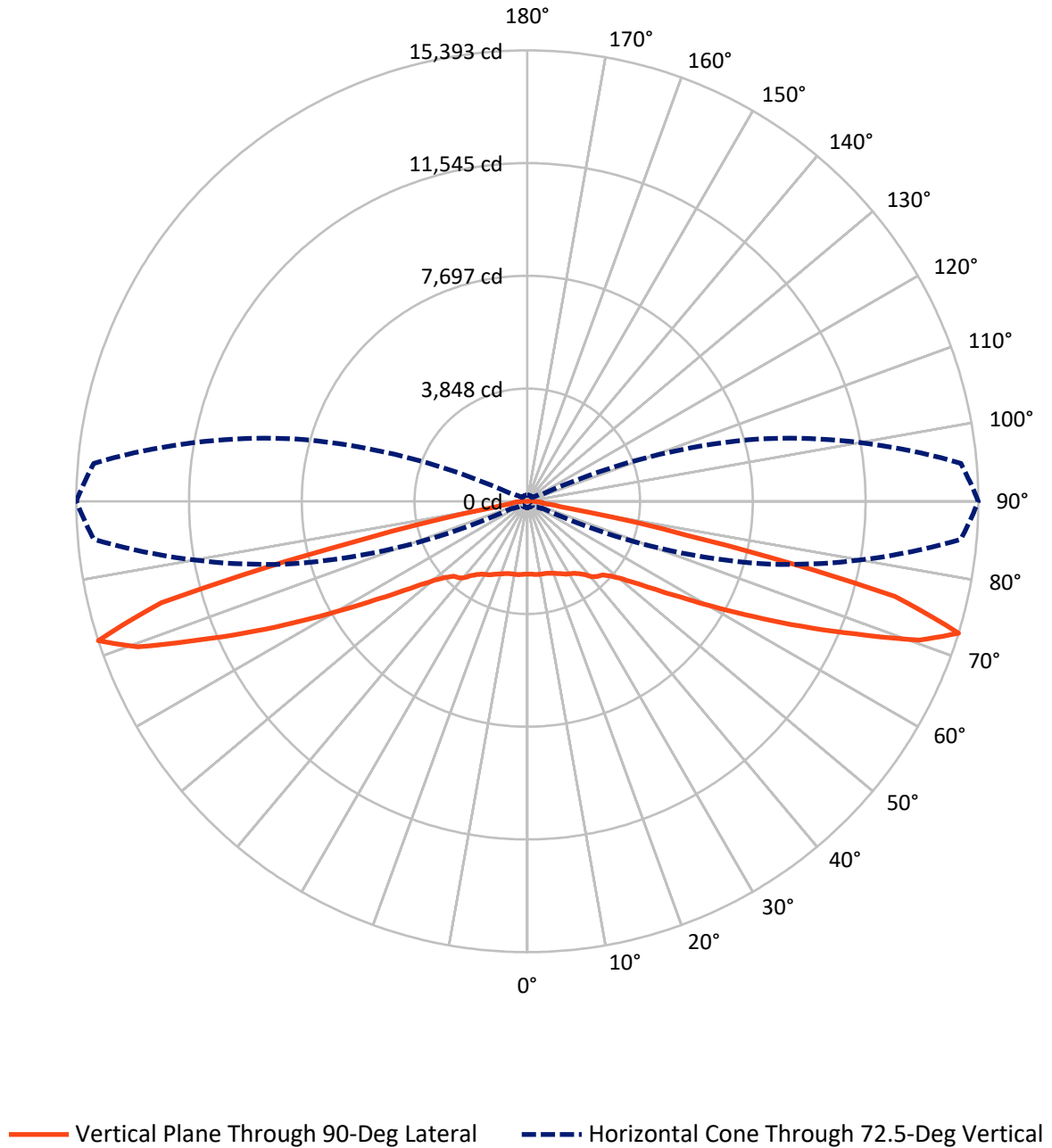
× Max cd
 - - - 1/2 Max cd



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	6657.5	0.0	6657.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6657.5	0.0	6657.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13315.0	0.0	13315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	1.8
10°-20°	737.6	5.5
20°-30°	1229.9	9.2
30°-40°	1691.5	12.7
40°-50°	2065.8	15.5
50°-60°	2389.4	17.9
60°-70°	2848.9	21.4
70°-80°	1988.4	14.9
80°-90°	122.1	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°	13315.0	100.0
0°-180°	13315.0	100.0

Coefficient of Utilization



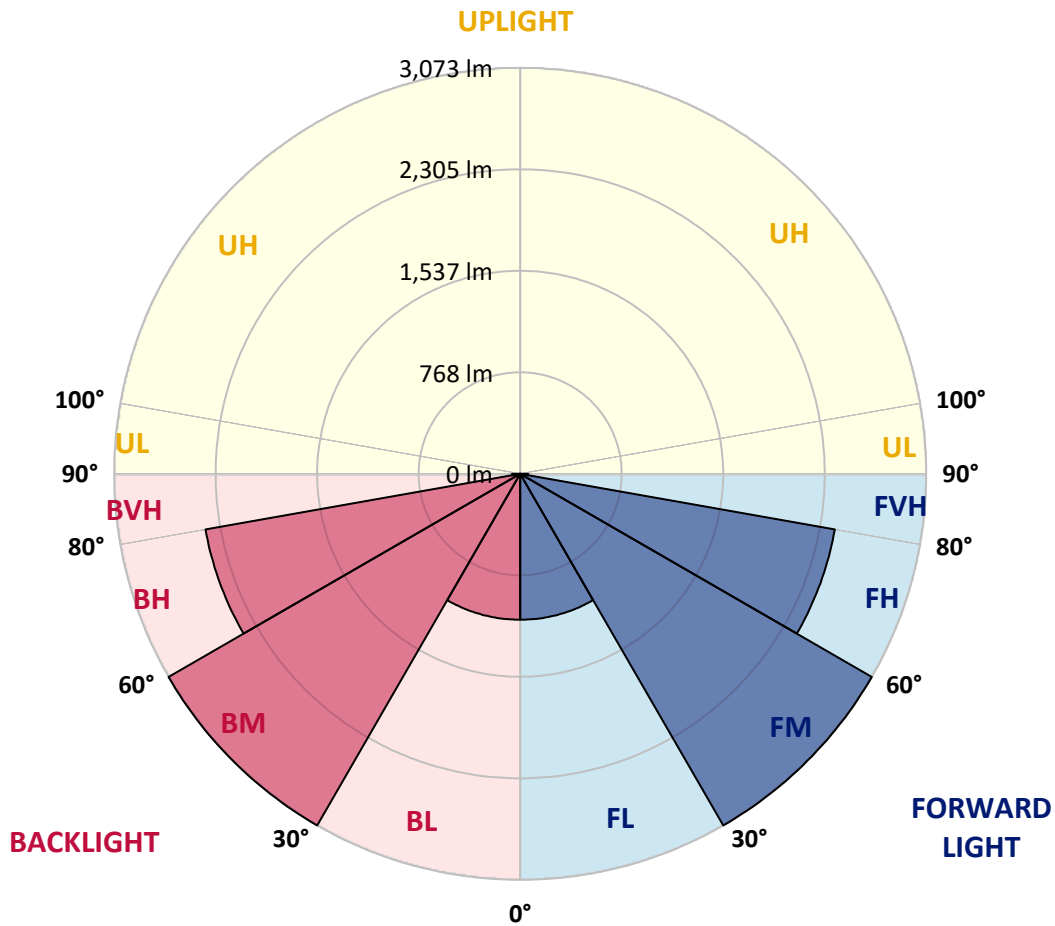
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1104.4	8.3			
FM (30°-60°)	3073.4	23.1			
FH (60°-80°)	2418.6	18.2			G2/5000
FVH (80°-90°)	61.1	0.5			G1/100
BL (0°-30°)	1104.4	8.3	B3/2500		
BM (30°-60°)	3073.4	23.1	B3/5000		
BH (60°-80°)	2418.6	18.2	B3/2500		G3/2500
BVH (80°-90°)	61.1	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°	2488.0	2488.0	2488.0	2488.0	2488.0	2488.0	2488.0	2488.0	2488.0	2488.0	2488.0
2.5°	2490.2	2493.0	2493.0	2490.9	2495.8	2491.6	2491.6	2489.5	2491.6	2489.5	2489.5
5°	2502.9	2506.4	2507.9	2507.2	2513.5	2510.0	2510.0	2507.2	2507.9	2505.7	2505.7
7.5°	2527.0	2531.9	2534.8	2538.3	2547.5	2543.2	2540.4	2531.9	2528.4	2522.7	2522.7
10°	2534.8	2540.4	2549.6	2568.0	2589.2	2589.9	2581.5	2560.2	2544.0	2531.2	2529.1
12.5°	2510.7	2518.5	2537.6	2575.1	2622.5	2641.6	2628.2	2592.8	2560.9	2538.3	2534.8
15°	2480.3	2488.8	2517.8	2574.4	2644.4	2689.0	2687.6	2640.9	2589.9	2554.6	2548.9
17.5°	2432.9	2441.3	2483.1	2562.4	2661.4	2735.0	2754.8	2706.7	2635.2	2587.8	2580.0
20°	2347.2	2355.0	2413.0	2524.1	2667.1	2783.8	2835.5	2793.0	2703.9	2639.5	2627.5
22.5°	2236.1	2248.2	2316.1	2458.3	2653.6	2834.8	2927.5	2898.5	2783.8	2694.7	2678.4
25°	2117.2	2130.0	2209.2	2377.7	2619.0	2871.6	3036.5	3018.1	2874.4	2763.3	2740.7
27.5°	2014.6	2028.1	2114.4	2297.7	2565.2	2885.7	3144.0	3153.2	2984.1	2839.0	2815.0
30°	1934.0	1946.7	2038.7	2233.3	2495.8	2871.6	3238.1	3301.8	3095.9	2904.8	2870.2
32.5°	1845.5	1861.8	1958.7	2154.8	2413.7	2837.6	3320.2	3462.5	3225.4	2975.6	2931.7
35°	1733.7	1748.6	1850.5	2047.2	2306.2	2783.1	3388.9	3640.8	3410.8	3083.2	3034.3
37.5°	1597.8	1612.0	1713.2	1912.7	2199.3	2706.7	3441.2	3841.8	3631.6	3238.1	3173.0
40°	1461.3	1474.7	1569.5	1762.7	2071.3	2609.1	3459.6	4038.5	3884.9	3451.1	3381.8
42.5°	1336.0	1348.0	1435.1	1614.8	1927.6	2484.5	3435.6	4209.7	4112.1	3599.7	3510.6
45°	1220.7	1231.3	1308.4	1476.1	1778.3	2333.1	3363.4	4393.7	4382.4	3705.9	3585.6
47.5°	1089.1	1099.7	1179.6	1341.7	1629.0	2155.5	3241.0	4574.9	4758.1	3946.5	3807.8
50°	928.4	937.6	1019.7	1186.7	1474.0	1966.5	3071.1	4717.1	5232.3	4310.9	4136.8
52.5°	738.1	748.0	827.9	994.9	1290.0	1763.4	2847.5	4809.8	5780.0	4843.1	4628.6
55°	549.1	556.2	625.6	775.6	1062.2	1532.0	2567.3	4836.0	6401.3	5570.5	5302.3
57.5°	398.4	402.6	447.2	559.0	805.3	1242.6	2226.9	4768.1	7140.8	6503.2	6165.6
60°	322.7	324.1	337.5	387.1	559.7	915.7	1815.8	4534.5	7943.2	7705.4	7280.2
62.5°	293.0	293.0	296.5	309.9	378.6	604.3	1318.3	4050.5	8803.7	9224.7	8655.1
65°	272.4	272.4	273.9	280.2	298.6	385.0	832.2	3262.2	9529.0	11004.4	10284.1
67.5°	254.0	254.7	254.0	256.2	266.8	284.5	482.6	2253.1	9919.6	12848.5	12070.9
70°	234.9	236.4	232.8	232.8	241.3	242.0	302.2	1235.5	9595.5	14394.0	14189.5
72.5°	212.3	214.4	208.8	207.3	213.7	210.9	227.2	593.0	8238.3	14855.4	15393.2
75°	192.5	195.3	182.6	179.0	179.0	176.9	184.7	304.3	5346.9	12118.3	12961.8
77.5°	174.8	180.4	159.9	148.6	145.8	139.4	150.7	186.1	2338.7	5689.4	5571.2
80°	144.4	152.1	131.6	118.2	113.2	106.1	118.9	130.2	695.6	1321.2	1265.3
82.5°	107.6	111.1	93.4	84.2	80.0	75.0	89.2	90.6	226.4	467.7	528.6
85°	68.6	70.1	57.3	49.5	47.4	45.3	56.6	49.5	86.3	343.9	499.6
87.5°	24.1	27.6	21.9	19.8	21.2	17.7	26.2	14.9	24.1	242.7	300.7
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)