

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: P882915

Luminaire Tested: **NAV-SB3A-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882915
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-SB3A-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13311 lumens
Efficiency: N/A
Efficacy: 157.2 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

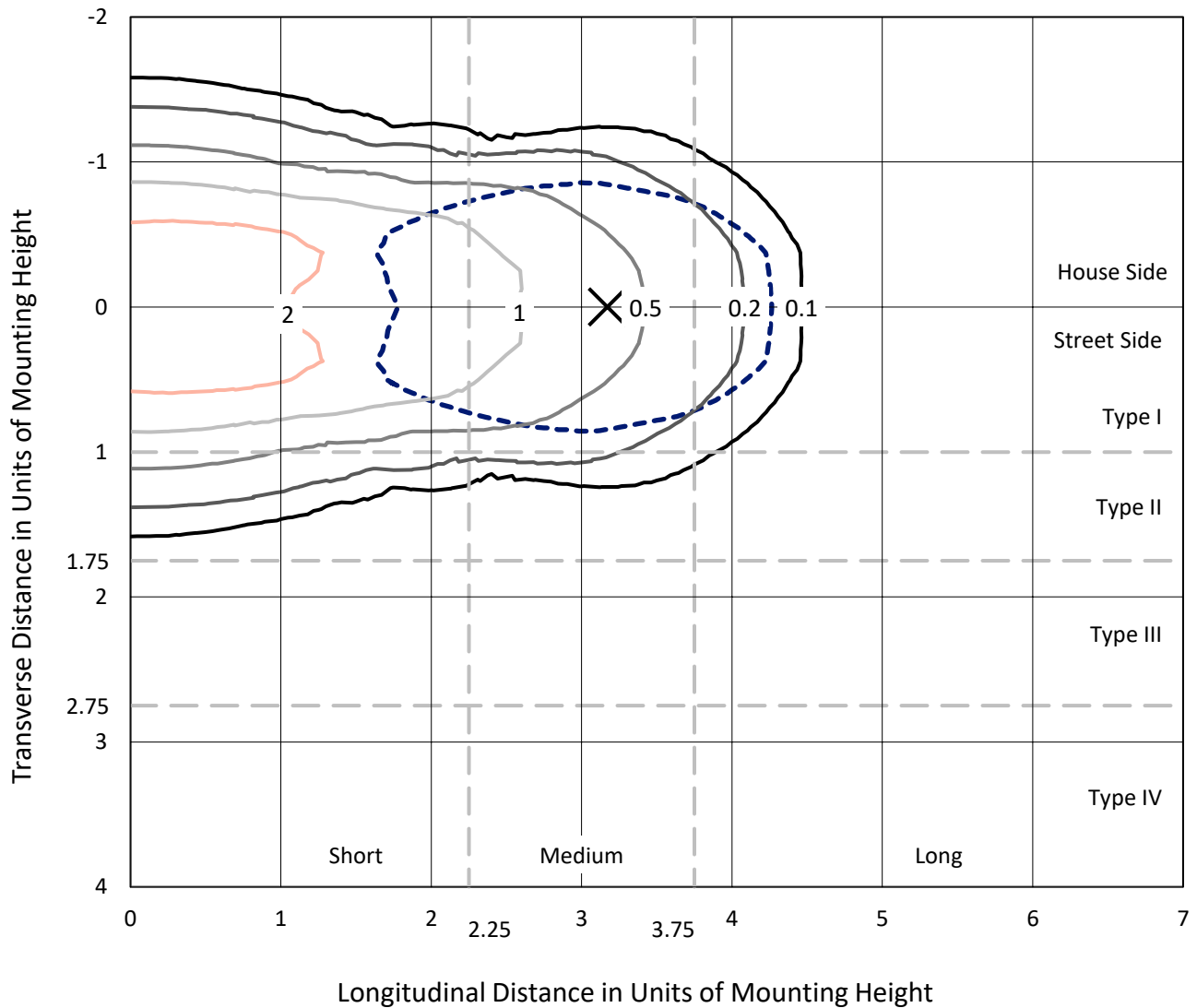
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

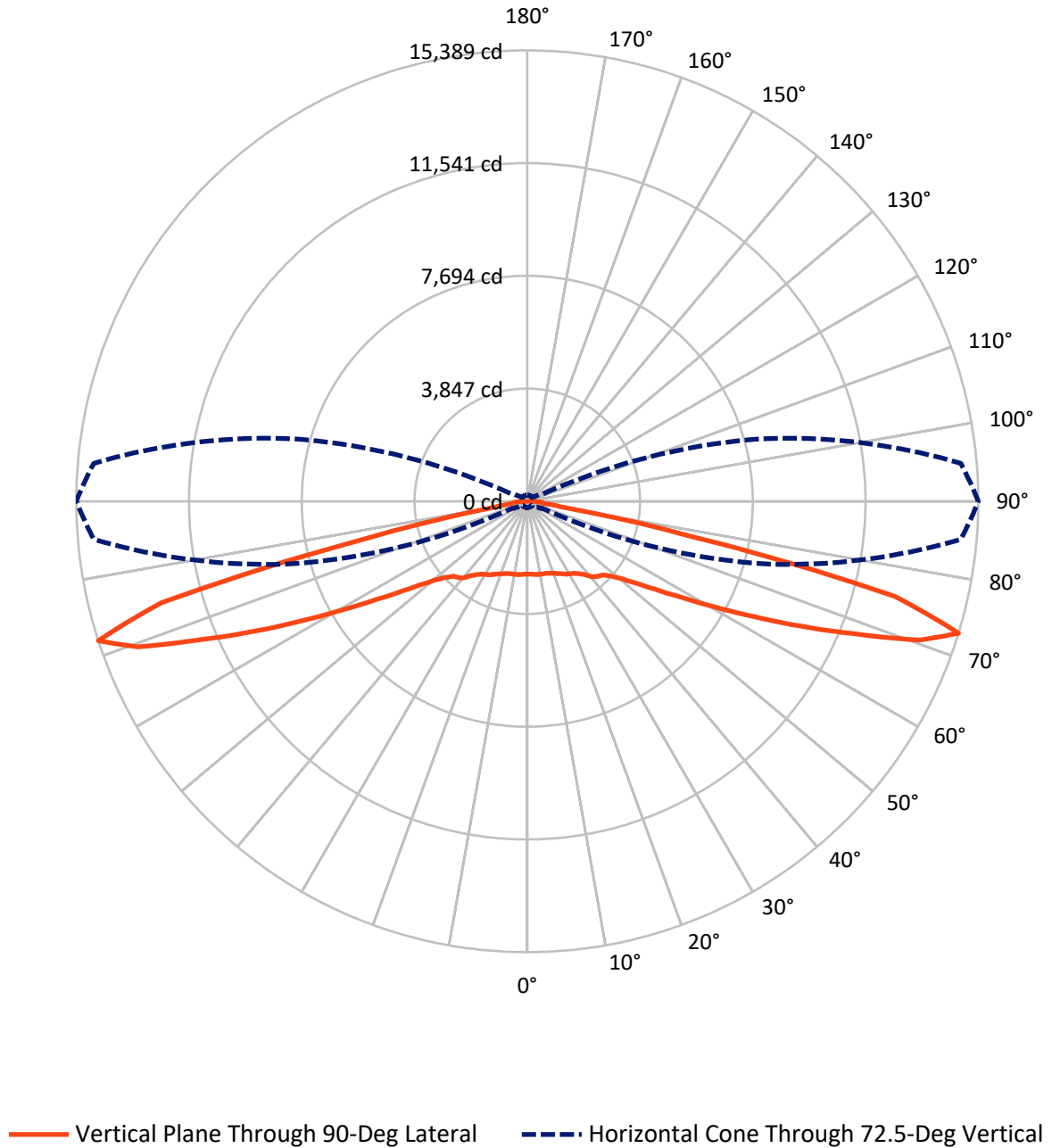
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	6655.5	0.0	6655.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6655.5	0.0	6655.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13311.0	0.0	13311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	1.8
10°-20°	737.4	5.5
20°-30°	1229.6	9.2
30°-40°	1691.0	12.7
40°-50°	2065.2	15.5
50°-60°	2388.6	17.9
60°-70°	2848.1	21.4
70°-80°	1987.8	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°	13311.0	100.0
0°-180°	13311.0	100.0

Coefficient of Utilization



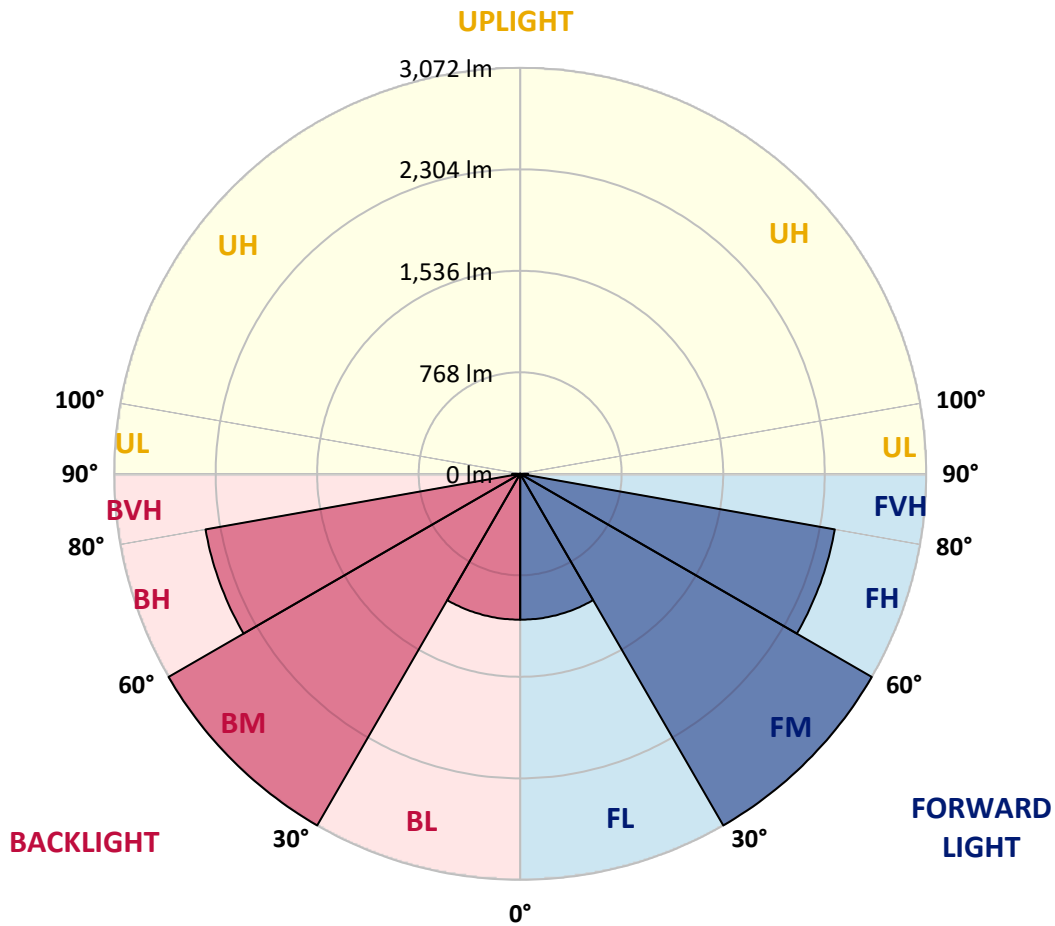
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1104.1	8.3			
FM (30°-60°)	3072.5	23.1			
FH (60°-80°)	2417.9	18.2			G2/5000
FVH (80°-90°)	61.0	0.5			G1/100
BL (0°-30°)	1104.1	8.3	B3/2500		
BM (30°-60°)	3072.5	23.1	B3/5000		
BH (60°-80°)	2417.9	18.2	B3/2500		G3/2500
BVH (80°-90°)	61.0	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°	2487.3	2487.3	2487.3	2487.3	2487.3	2487.3	2487.3	2487.3	2487.3	2487.3	2487.3
2.5°	2489.4	2492.3	2492.3	2490.1	2495.1	2490.8	2490.8	2488.7	2490.8	2488.7	2488.7
5°	2502.2	2505.7	2507.1	2506.4	2512.8	2509.2	2509.2	2506.4	2507.1	2505.0	2505.0
7.5°	2526.2	2531.2	2534.0	2537.5	2546.7	2542.5	2539.7	2531.2	2527.6	2522.0	2522.0
10°	2534.0	2539.7	2548.8	2567.2	2588.5	2589.2	2580.7	2559.5	2543.2	2530.5	2528.3
12.5°	2509.9	2517.7	2536.8	2574.3	2621.7	2640.8	2627.4	2592.0	2560.2	2537.5	2534.0
15°	2479.5	2488.0	2517.0	2573.6	2643.6	2688.2	2686.8	2640.1	2589.2	2553.8	2548.1
17.5°	2432.1	2440.6	2482.3	2561.6	2660.6	2734.2	2754.0	2705.9	2634.4	2587.0	2579.3
20°	2346.5	2354.3	2412.3	2523.4	2666.3	2783.0	2834.6	2792.2	2703.1	2638.7	2626.7
22.5°	2235.5	2247.5	2315.4	2457.6	2652.8	2833.9	2926.6	2897.6	2783.0	2693.9	2677.6
25°	2116.6	2129.3	2208.6	2376.9	2618.2	2870.7	3035.6	3017.2	2873.6	2762.5	2739.9
27.5°	2014.0	2027.5	2113.8	2297.0	2564.4	2884.9	3143.1	3152.3	2983.2	2838.2	2814.1
30°	1933.4	1946.1	2038.1	2232.6	2495.1	2870.7	3237.2	3300.8	3095.0	2904.0	2869.3
32.5°	1845.0	1861.2	1958.1	2154.1	2413.0	2836.8	3319.2	3461.4	3224.4	2974.7	2930.9
35°	1733.2	1748.0	1849.9	2046.6	2305.5	2782.3	3387.9	3639.7	3409.8	3082.2	3033.4
37.5°	1597.4	1611.5	1712.7	1912.2	2198.7	2705.9	3440.2	3840.6	3630.5	3237.2	3172.1
40°	1460.8	1474.3	1569.1	1762.2	2070.6	2608.3	3458.6	4037.3	3883.8	3450.1	3380.8
42.5°	1335.6	1347.6	1434.7	1614.3	1927.0	2483.8	3434.5	4208.5	4110.8	3598.7	3509.5
45°	1220.3	1230.9	1308.0	1475.7	1777.8	2332.4	3362.4	4392.4	4381.1	3704.8	3584.5
47.5°	1088.7	1099.3	1179.3	1341.3	1628.5	2154.8	3240.0	4573.5	4756.7	3945.3	3806.6
50°	928.1	937.3	1019.4	1186.3	1473.6	1965.9	3070.2	4715.7	5230.7	4309.6	4135.6
52.5°	737.8	747.7	827.7	994.6	1289.6	1762.9	2846.7	4808.4	5778.2	4841.6	4627.3
55°	549.0	556.0	625.4	775.3	1061.8	1531.6	2566.5	4834.5	6399.4	5568.8	5300.7
57.5°	398.3	402.5	447.1	558.9	805.0	1242.2	2226.3	4766.6	7138.6	6501.2	6163.8
60°	322.6	324.0	337.4	387.0	559.6	915.4	1815.2	4533.2	7940.8	7703.1	7278.0
62.5°	292.9	292.9	296.4	309.9	378.5	604.1	1317.9	4049.3	8801.1	9222.0	8652.5
65°	272.4	272.4	273.8	280.1	298.5	384.8	831.9	3261.2	9526.2	11001.1	10281.0
67.5°	254.0	254.7	254.0	256.1	266.7	284.4	482.5	2252.4	9916.7	12844.7	12067.2
70°	234.9	236.3	232.7	232.7	241.2	241.9	302.1	1235.2	9592.7	14389.7	14185.3
72.5°	212.2	214.3	208.7	207.3	213.6	210.8	227.1	592.8	8235.8	14850.9	15388.6
75°	192.4	195.2	182.5	179.0	179.0	176.9	184.6	304.2	5345.3	12114.6	12957.9
77.5°	174.7	180.4	159.9	148.6	145.7	139.4	150.7	186.1	2338.0	5687.7	5569.5
80°	144.3	152.1	131.6	118.1	113.2	106.1	118.8	130.2	695.4	1320.8	1264.9
82.5°	107.5	111.1	93.4	84.2	79.9	75.0	89.1	90.6	226.4	467.6	528.4
85°	68.6	70.0	57.3	49.5	47.4	45.3	56.6	49.5	86.3	343.8	499.4
87.5°	24.1	27.6	21.9	19.8	21.2	17.7	26.2	14.9	24.1	242.6	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)