

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: P883145

Luminaire Tested: **NAV-SB3B-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883145
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-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14098 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

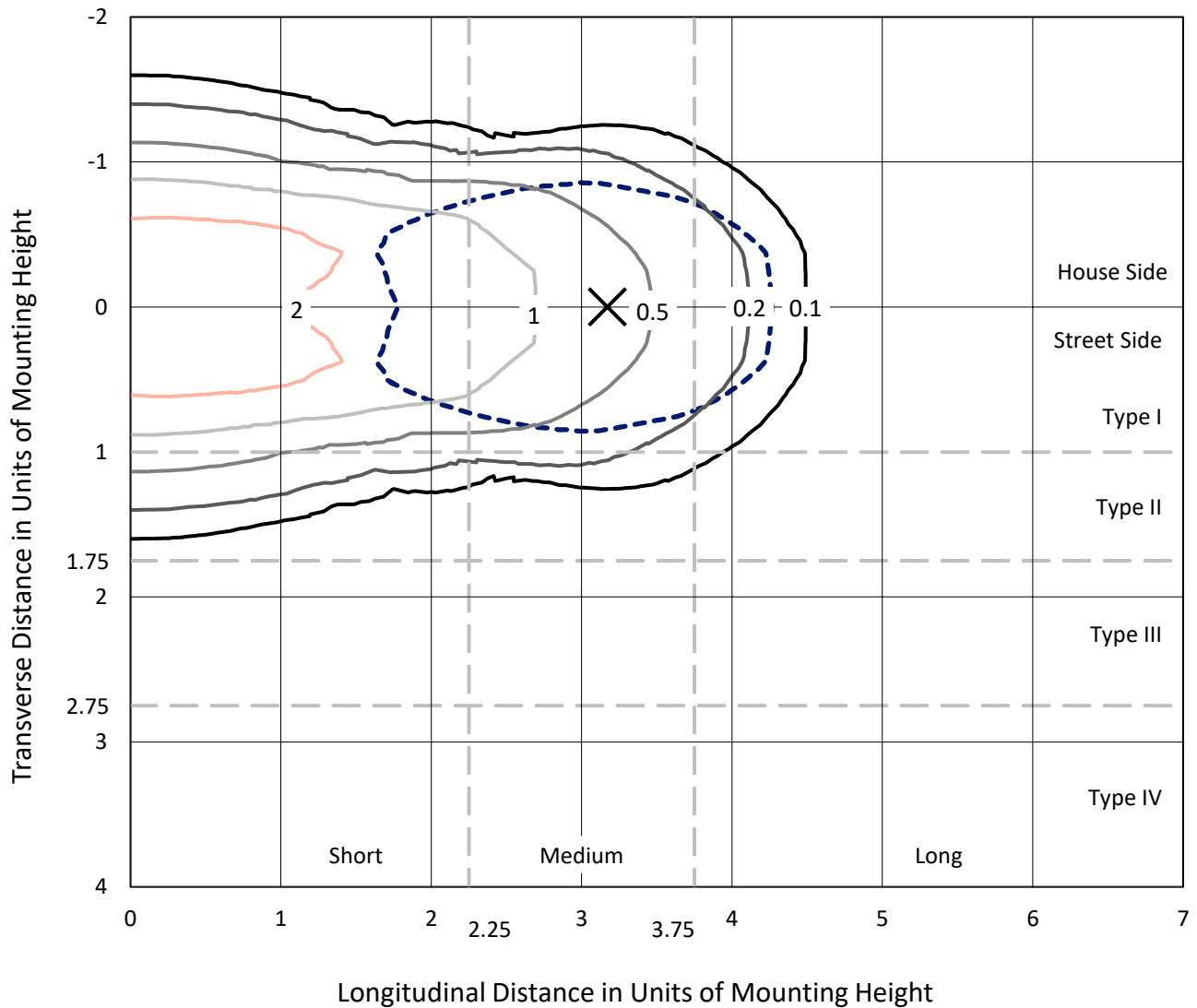
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

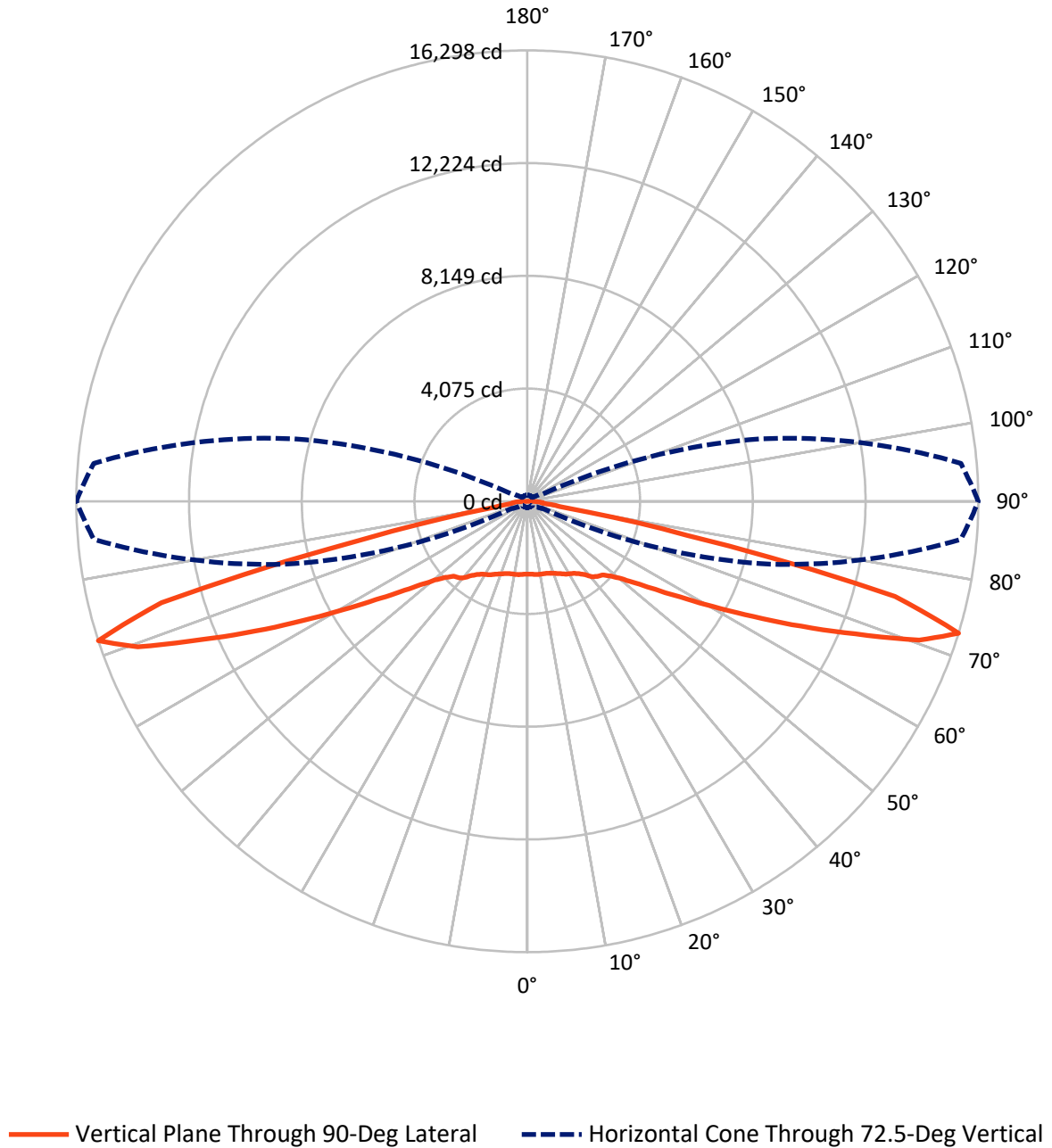
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	7049.0	0.0	7049.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7049.0	0.0	7049.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14098.0	0.0	14098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	1.8
10°-20°	781.0	5.5
20°-30°	1302.3	9.2
30°-40°	1791.0	12.7
40°-50°	2187.3	15.5
50°-60°	2529.9	17.9
60°-70°	3016.5	21.4
70°-80°	2105.3	14.9
80°-90°	129.3	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°	14098.0	100.0
0°-180°	14098.0	100.0

Coefficient of Utilization



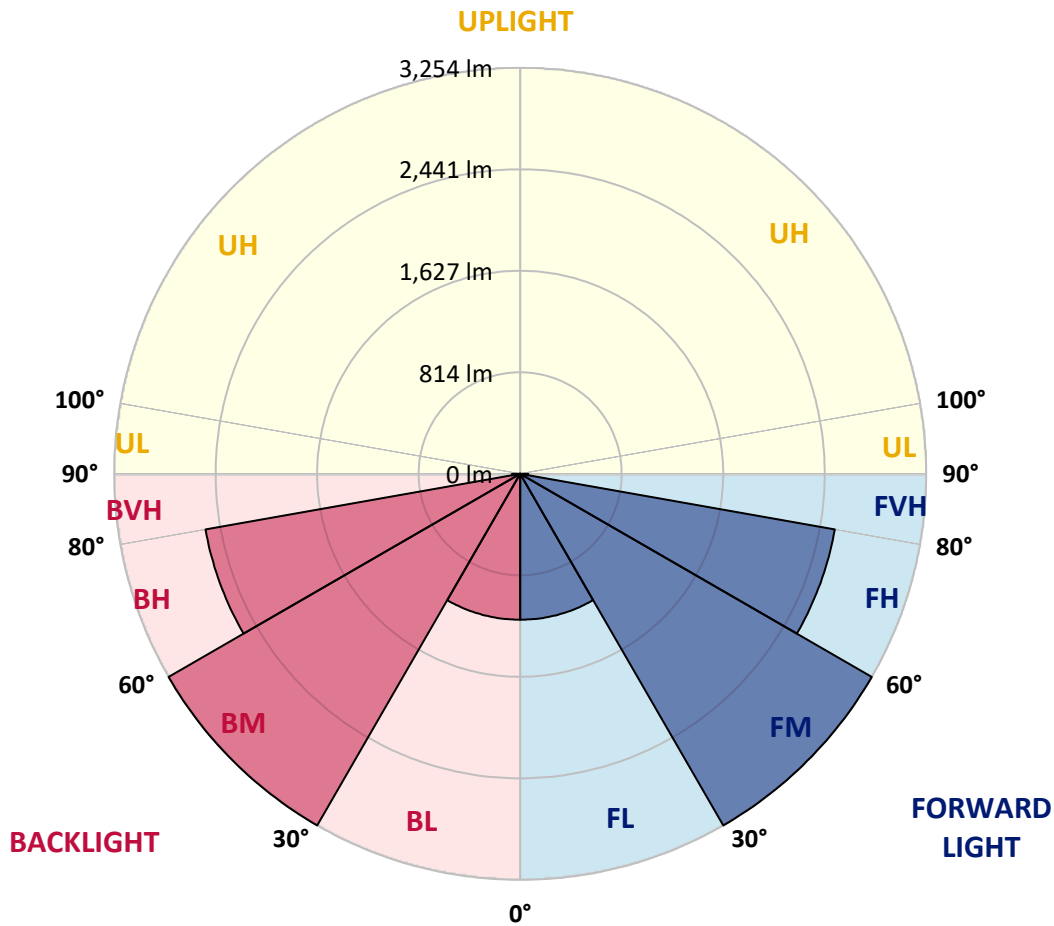
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.4	8.3			
FM (30°-60°)	3254.1	23.1			
FH (60°-80°)	2560.9	18.2			G2/5000
FVH (80°-90°)	64.7	0.5			G1/100
BL (0°-30°)	1169.4	8.3	B3/2500		
BM (30°-60°)	3254.1	23.1	B3/5000		
BH (60°-80°)	2560.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	64.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2634.4	2634.4	2634.4	2634.4	2634.4	2634.4	2634.4	2634.4	2634.4	2634.4	2634.4
2.5°	2636.6	2639.6	2639.6	2637.4	2642.6	2638.1	2638.1	2635.9	2638.1	2635.9	2635.9
5°	2650.1	2653.8	2655.3	2654.6	2661.3	2657.6	2657.6	2654.6	2655.3	2653.1	2653.1
7.5°	2675.6	2680.8	2683.8	2687.6	2697.3	2692.8	2689.8	2680.8	2677.1	2671.1	2671.1
10°	2683.8	2689.8	2699.5	2719.0	2741.5	2742.3	2733.3	2710.8	2693.6	2680.1	2677.8
12.5°	2658.3	2666.6	2686.8	2726.5	2776.7	2796.9	2782.7	2745.2	2711.5	2687.6	2683.8
15°	2626.1	2635.1	2665.8	2725.8	2799.9	2847.1	2845.6	2796.2	2742.3	2704.8	2698.8
17.5°	2575.9	2584.9	2629.1	2713.0	2817.9	2895.8	2916.8	2865.9	2790.2	2740.0	2731.8
20°	2485.3	2493.5	2554.9	2672.6	2823.9	2947.5	3002.2	2957.3	2862.9	2794.7	2782.0
22.5°	2367.6	2380.4	2452.3	2602.9	2809.7	3001.5	3099.6	3068.9	2947.5	2853.1	2835.9
25°	2241.8	2255.2	2339.2	2517.5	2773.0	3040.5	3215.0	3195.5	3043.5	2925.8	2901.8
27.5°	2133.1	2147.3	2238.8	2432.8	2716.0	3055.4	3328.9	3338.7	3159.6	3006.0	2980.5
30°	2047.7	2061.2	2158.6	2364.6	2642.6	3040.5	3428.6	3496.0	3278.0	3075.7	3039.0
32.5°	1954.0	1971.3	2073.9	2281.5	2555.7	3004.5	3515.5	3666.1	3415.1	3150.6	3104.1
35°	1835.7	1851.4	1959.3	2167.6	2441.8	2946.8	3588.2	3854.9	3611.4	3264.5	3212.8
37.5°	1691.8	1706.8	1813.9	2025.2	2328.7	2865.9	3643.6	4067.7	3845.1	3428.6	3359.6
40°	1547.2	1561.4	1661.8	1866.4	2193.1	2762.5	3663.1	4276.0	4113.4	3654.1	3580.7
42.5°	1414.6	1427.3	1519.5	1709.8	2041.0	2630.6	3637.6	4457.3	4353.9	3811.4	3717.0
45°	1292.5	1303.7	1385.4	1562.9	1882.9	2470.3	3561.2	4652.1	4640.1	3923.8	3796.4
47.5°	1153.1	1164.3	1249.0	1420.6	1724.8	2282.2	3431.6	4843.9	5038.0	4178.6	4031.7
50°	983.0	992.8	1079.7	1256.5	1560.7	2082.2	3251.7	4994.5	5539.9	4564.4	4380.1
52.5°	781.5	792.0	876.6	1053.4	1365.9	1867.1	3015.0	5092.6	6119.9	5127.9	4900.8
55°	581.4	588.9	662.3	821.2	1124.6	1622.1	2718.3	5120.4	6777.7	5898.1	5614.1
57.5°	421.8	426.3	473.5	591.9	852.6	1315.7	2357.9	5048.4	7560.7	6885.6	6528.2
60°	341.7	343.2	357.4	409.8	592.7	969.5	1922.6	4801.2	8410.3	8158.6	7708.3
62.5°	310.2	310.2	313.9	328.2	400.8	639.9	1395.9	4288.7	9321.4	9767.2	9164.1
65°	288.5	288.5	290.0	296.7	316.2	407.6	881.1	3454.0	10089.4	11651.6	10888.8
67.5°	269.0	269.7	269.0	271.2	282.5	301.2	511.0	2385.6	10503.0	13604.1	12780.7
70°	248.8	250.2	246.5	246.5	255.5	256.2	319.9	1308.2	10159.8	15240.5	15023.9
72.5°	224.8	227.0	221.0	219.5	226.3	223.3	240.5	627.9	8722.8	15729.0	16298.4
75°	203.8	206.8	193.3	189.6	189.6	187.3	195.6	322.2	5661.3	12830.9	13724.0
77.5°	185.1	191.1	169.3	157.3	154.3	147.6	159.6	197.1	2476.3	6024.0	5898.8
80°	152.8	161.1	139.4	125.1	119.9	112.4	125.9	137.9	736.5	1398.8	1339.7
82.5°	113.9	117.6	98.9	89.2	84.7	79.4	94.4	95.9	239.8	495.3	559.7
85°	72.7	74.2	60.7	52.4	50.2	48.0	59.9	52.4	91.4	364.1	529.0
87.5°	25.5	29.2	23.2	21.0	22.5	18.7	27.7	15.7	25.5	257.0	318.4
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)