

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: P883135

Luminaire Tested: **NAV-SB3B-830-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883135
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-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14620 lumens
Efficiency: N/A
Efficacy: 133.9 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

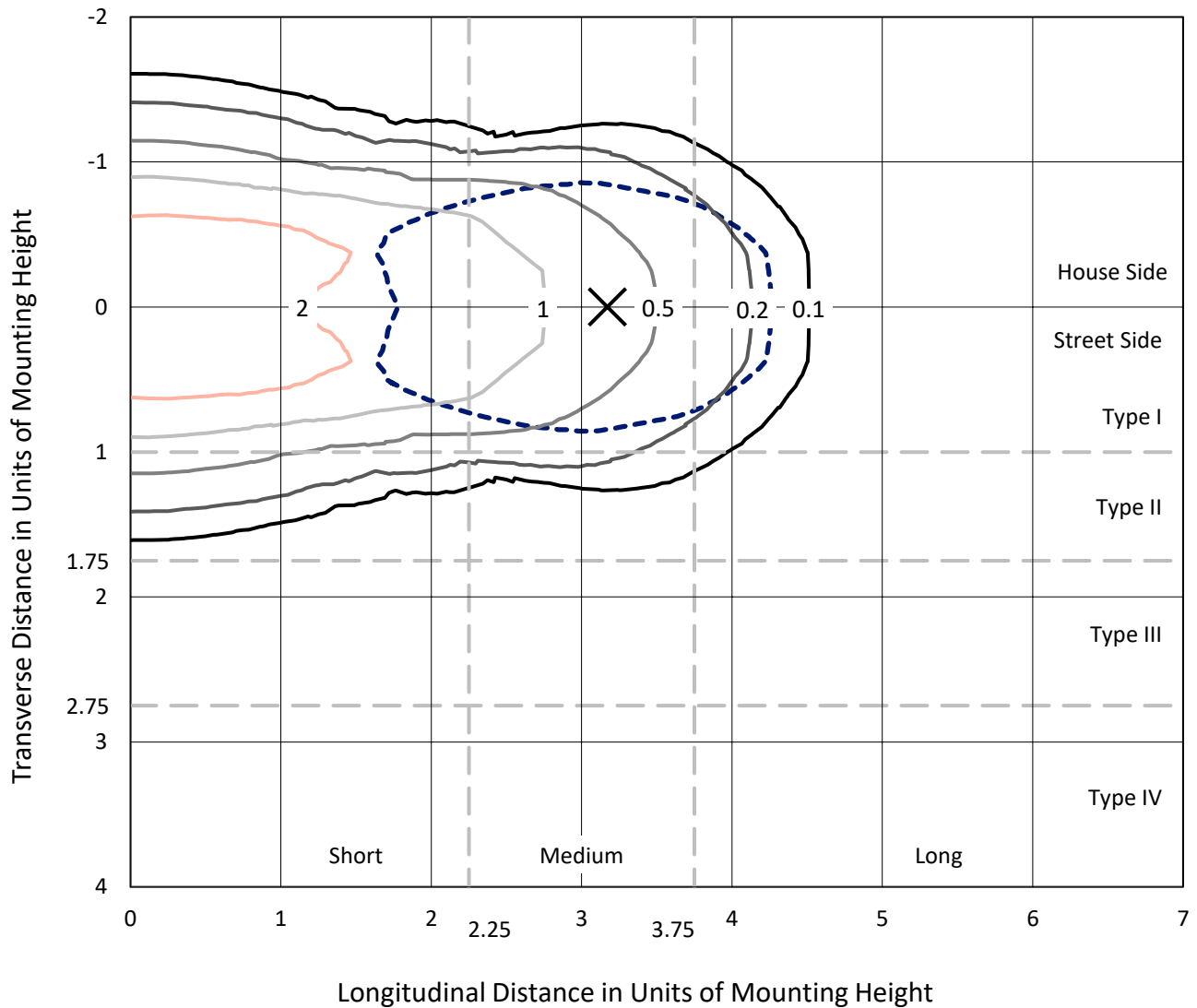
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

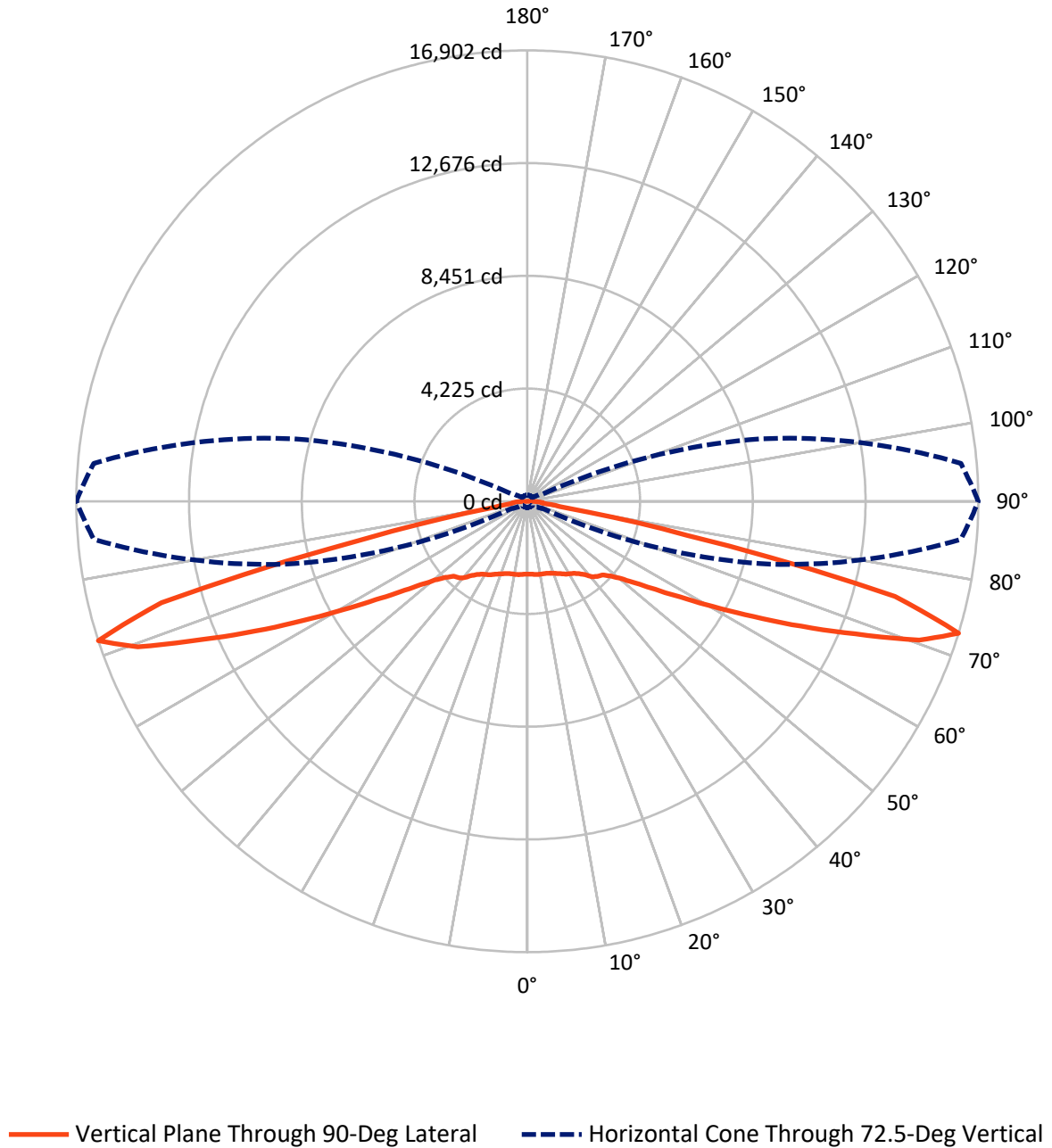
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	7310.0	0.0	7310.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7310.0	0.0	7310.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14620.0	0.0	14620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.9	1.8
10°-20°	809.9	5.5
20°-30°	1350.5	9.2
30°-40°	1857.3	12.7
40°-50°	2268.3	15.5
50°-60°	2623.6	17.9
60°-70°	3128.2	21.4
70°-80°	2183.2	14.9
80°-90°	134.1	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°	14620.0	100.0
0°-180°	14620.0	100.0

Coefficient of Utilization



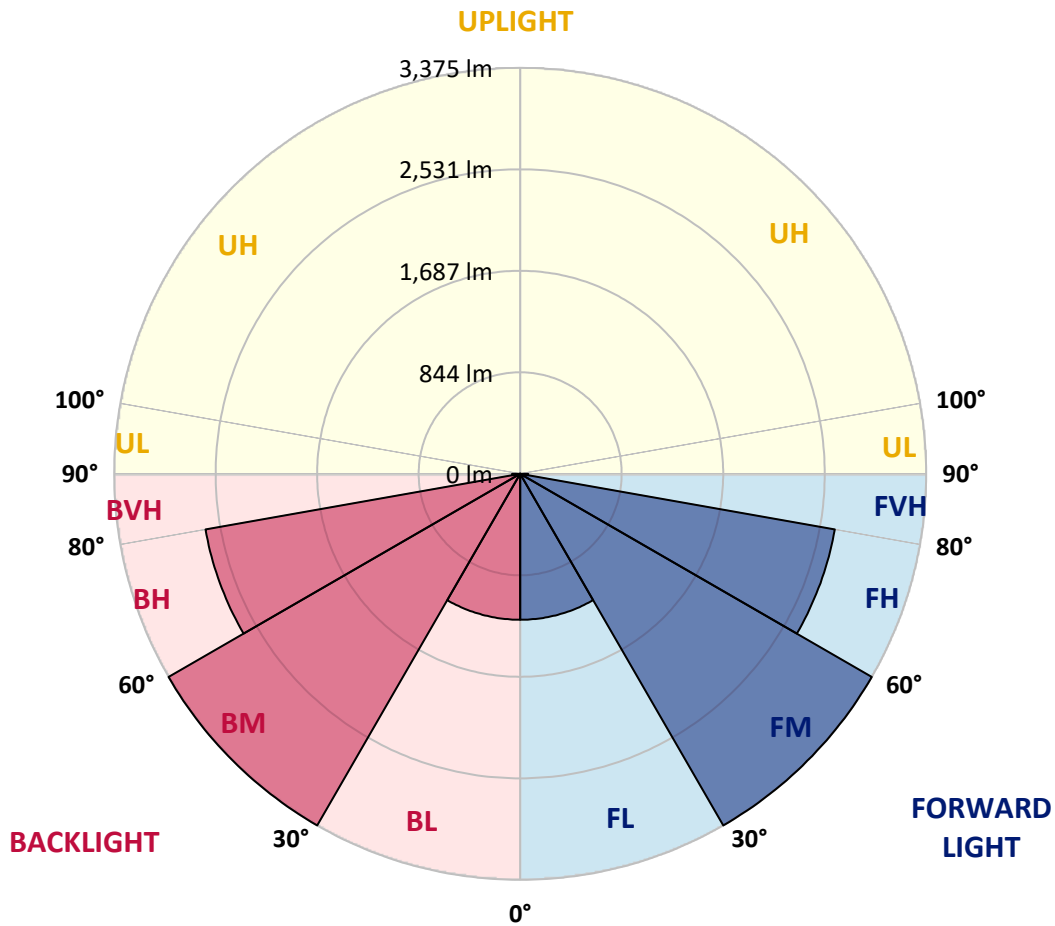
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.7	8.3			
FM (30°-60°)	3374.6	23.1			
FH (60°-80°)	2655.7	18.2			G2/5000
FVH (80°-90°)	67.0	0.5			G1/100
BL (0°-30°)	1212.7	8.3	B3/2500		
BM (30°-60°)	3374.6	23.1	B3/5000		
BH (60°-80°)	2655.7	18.2	B4/5000		G4/5000
BVH (80°-90°)	67.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9
2.5°	2734.2	2737.3	2737.3	2735.0	2740.4	2735.8	2735.8	2733.5	2735.8	2733.5	2733.5
5°	2748.2	2752.1	2753.7	2752.9	2759.9	2756.0	2756.0	2752.9	2753.7	2751.3	2751.3
7.5°	2774.6	2780.1	2783.2	2787.1	2797.2	2792.5	2789.4	2780.1	2776.2	2770.0	2770.0
10°	2783.2	2789.4	2799.5	2819.7	2843.0	2843.8	2834.5	2811.2	2793.3	2779.3	2777.0
12.5°	2756.8	2765.3	2786.3	2827.5	2879.5	2900.5	2885.7	2846.9	2811.9	2787.1	2783.2
15°	2723.4	2732.7	2764.5	2826.7	2903.6	2952.6	2951.0	2899.7	2843.8	2804.9	2798.7
17.5°	2671.3	2680.6	2726.5	2813.5	2922.3	3003.1	3024.8	2972.0	2893.5	2841.5	2832.9
20°	2577.3	2585.8	2649.5	2771.5	2928.5	3056.7	3113.4	3066.8	2968.9	2898.2	2885.0
22.5°	2455.3	2468.5	2543.1	2699.3	2913.7	3112.6	3214.4	3182.6	3056.7	2958.8	2940.9
25°	2324.8	2338.7	2425.8	2610.7	2875.6	3153.0	3334.1	3313.9	3156.1	3034.2	3009.3
27.5°	2212.1	2226.9	2321.6	2522.9	2816.6	3168.6	3452.2	3462.3	3276.6	3117.3	3090.9
30°	2123.5	2137.5	2238.5	2452.2	2740.4	3153.0	3555.5	3625.4	3399.3	3189.5	3151.5
32.5°	2026.4	2044.3	2150.7	2365.9	2650.3	3115.7	3645.6	3801.8	3541.5	3267.2	3219.1
35°	1903.6	1919.9	2031.8	2247.8	2532.2	3055.9	3721.0	3997.6	3745.1	3385.4	3331.7
37.5°	1754.4	1770.0	1881.1	2100.2	2414.9	2972.0	3778.5	4218.3	3987.5	3555.5	3484.0
40°	1604.5	1619.2	1723.4	1935.5	2274.3	2864.8	3798.7	4434.3	4265.7	3789.4	3713.2
42.5°	1467.0	1480.2	1575.7	1773.1	2116.5	2728.0	3772.3	4622.3	4515.1	3952.6	3854.7
45°	1340.3	1352.0	1436.7	1620.8	1952.6	2561.7	3693.0	4824.3	4811.9	4069.1	3937.0
47.5°	1195.8	1207.4	1295.2	1473.2	1788.6	2366.7	3558.6	5023.2	5224.5	4333.3	4181.0
50°	1019.4	1029.5	1119.6	1303.0	1618.5	2159.3	3372.1	5179.4	5745.1	4733.4	4542.3
52.5°	810.4	821.3	909.1	1092.4	1416.5	1936.3	3126.6	5281.2	6346.5	5317.7	5082.3
55°	602.9	610.7	686.9	851.6	1166.3	1682.2	2818.9	5310.0	7028.7	6116.5	5822.0
57.5°	437.4	442.1	491.1	613.8	884.2	1364.4	2445.2	5235.4	7840.6	7140.5	6769.9
60°	354.3	355.9	370.6	425.0	614.6	1005.4	1993.8	4979.0	8721.7	8460.7	7993.7
62.5°	321.7	321.7	325.6	340.3	415.7	663.6	1447.5	4447.5	9666.5	10128.9	9503.4
65°	299.1	299.1	300.7	307.7	327.9	422.7	913.7	3581.9	10463.0	12083.0	11292.0
67.5°	278.9	279.7	278.9	281.3	292.9	312.4	529.9	2473.9	10891.9	14107.8	13253.9
70°	258.0	259.5	255.6	255.6	265.0	265.7	331.8	1356.6	10536.0	15804.8	15580.2
72.5°	233.1	235.4	229.2	227.7	234.7	231.5	249.4	651.1	9045.7	16311.4	16901.9
75°	211.3	214.4	200.5	196.6	196.6	194.2	202.8	334.1	5870.9	13306.0	14232.1
77.5°	191.9	198.1	175.6	163.2	160.1	153.1	165.5	204.3	2568.0	6247.0	6117.3
80°	158.5	167.1	144.5	129.8	124.3	116.5	130.5	143.0	763.8	1450.6	1389.3
82.5°	118.1	122.0	102.6	92.5	87.8	82.4	97.9	99.5	248.6	513.6	580.4
85°	75.4	76.9	62.9	54.4	52.1	49.7	62.2	54.4	94.8	377.6	548.6
87.5°	26.4	30.3	24.1	21.8	23.3	19.4	28.7	16.3	26.4	266.5	330.2
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)