

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: P883085

Luminaire Tested: **NAV-SB3B-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883085
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-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 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: 16709 lumens
Efficiency: N/A
Efficacy: 153.0 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

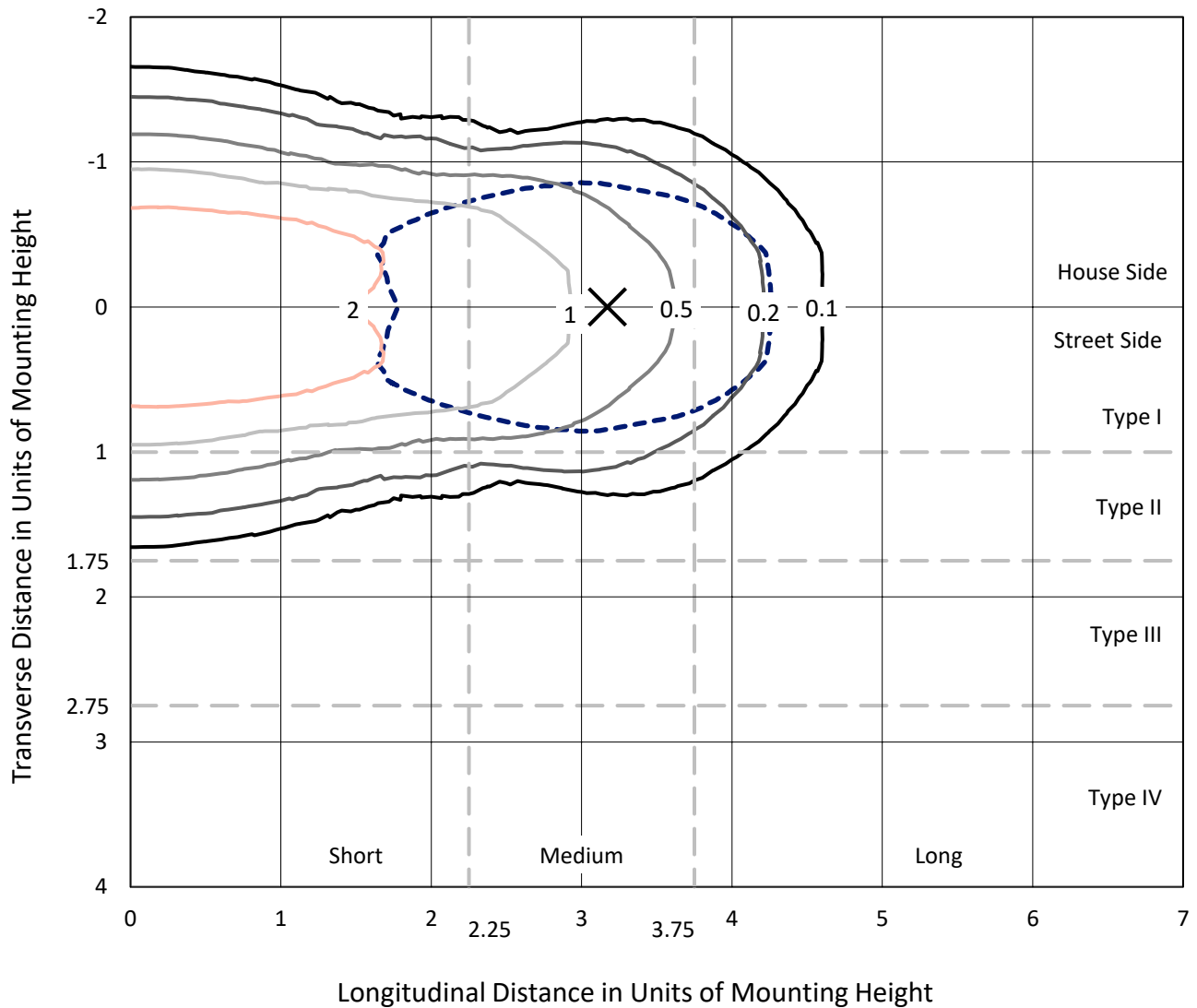
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

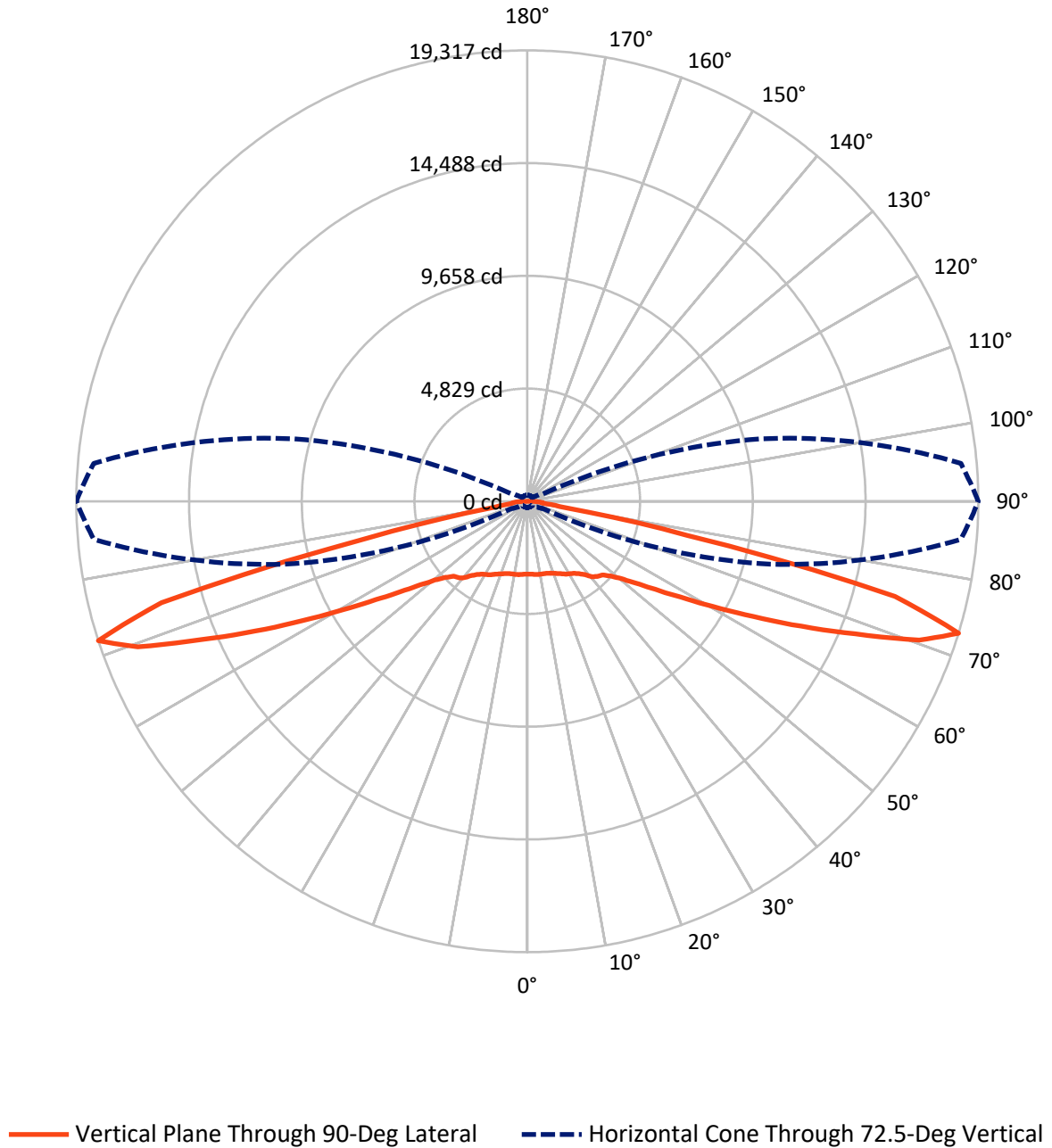
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	8354.5	0.0	8354.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8354.5	0.0	8354.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16709.0	0.0	16709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.7	1.8
10°-20°	925.7	5.5
20°-30°	1543.5	9.2
30°-40°	2122.7	12.7
40°-50°	2592.4	15.5
50°-60°	2998.4	17.9
60°-70°	3575.1	21.4
70°-80°	2495.2	14.9
80°-90°	153.3	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°	16709.0	100.0
0°-180°	16709.0	100.0

Coefficient of Utilization



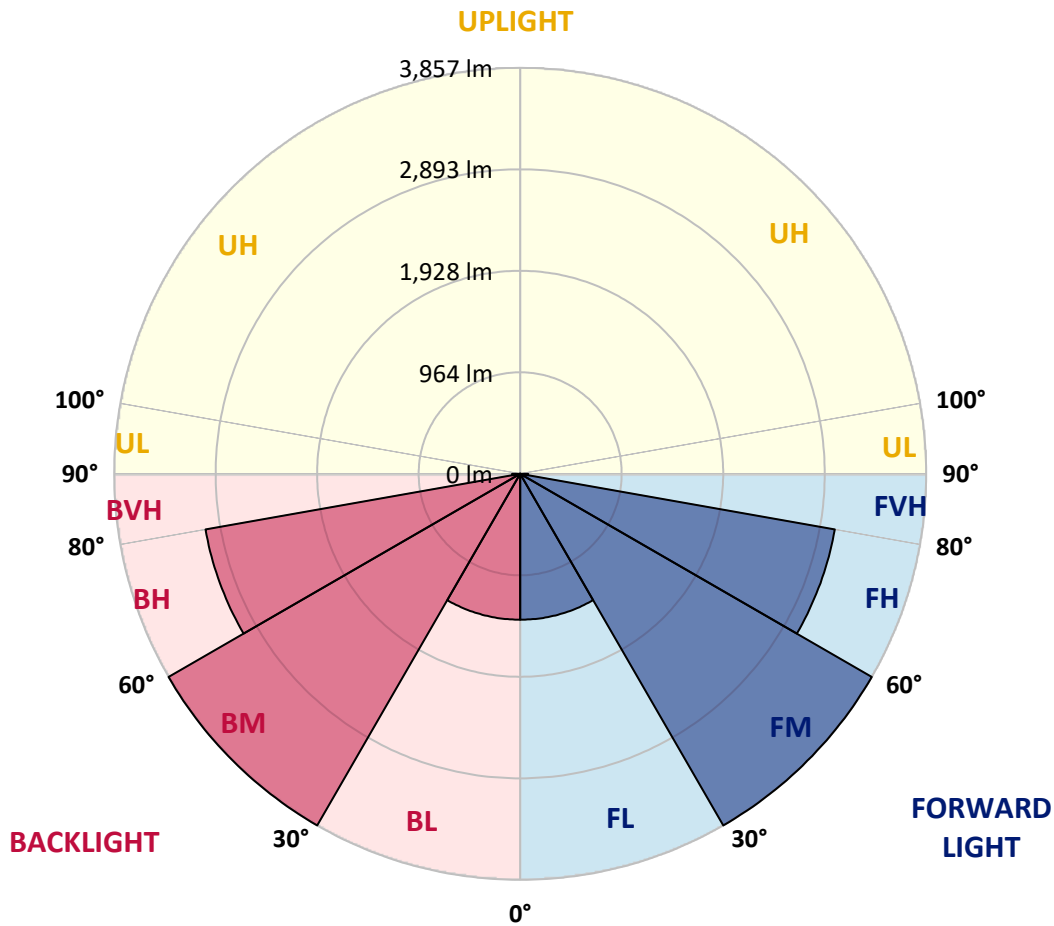
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1385.9	8.3			
FM (30°-60°)	3856.8	23.1			
FH (60°-80°)	3035.2	18.2			G2/5000
FVH (80°-90°)	76.6	0.5			G1/100
BL (0°-30°)	1385.9	8.3	B3/2500		
BM (30°-60°)	3856.8	23.1	B3/5000		
BH (60°-80°)	3035.2	18.2	B4/5000		G4/5000
BVH (80°-90°)	76.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3
2.5°	3124.9	3128.5	3128.5	3125.8	3132.0	3126.7	3126.7	3124.0	3126.7	3124.0	3124.0
5°	3140.9	3145.3	3147.1	3146.2	3154.2	3149.8	3149.8	3146.2	3147.1	3144.5	3144.5
7.5°	3171.1	3177.3	3180.9	3185.3	3196.8	3191.5	3188.0	3177.3	3172.9	3165.8	3165.8
10°	3180.9	3188.0	3199.5	3222.6	3249.2	3250.1	3239.5	3212.8	3192.4	3176.4	3173.8
12.5°	3150.7	3160.4	3184.4	3231.5	3291.0	3315.0	3298.1	3253.7	3213.7	3185.3	3180.9
15°	3112.5	3123.1	3159.5	3230.6	3318.5	3374.4	3372.7	3314.1	3250.1	3205.7	3198.6
17.5°	3053.0	3063.6	3116.0	3215.5	3339.8	3432.2	3457.0	3396.6	3307.0	3247.5	3237.7
20°	2945.5	2955.3	3028.1	3167.5	3346.9	3493.4	3558.3	3505.0	3393.1	3312.3	3297.2
22.5°	2806.1	2821.2	2906.5	3085.0	3330.0	3557.4	3673.7	3637.3	3493.4	3381.6	3361.1
25°	2656.9	2672.9	2772.4	2983.7	3286.5	3603.6	3810.5	3787.4	3607.1	3467.7	3439.3
27.5°	2528.2	2545.0	2653.4	2883.4	3219.0	3621.3	3945.4	3957.0	3744.8	3562.7	3532.5
30°	2426.9	2442.9	2558.4	2802.6	3132.0	3603.6	4063.5	4143.5	3885.1	3645.3	3601.8
32.5°	2315.9	2336.4	2458.0	2704.0	3029.0	3560.9	4166.6	4345.0	4047.6	3734.1	3679.0
35°	2175.6	2194.3	2322.2	2569.0	2894.0	3492.6	4252.7	4568.8	4280.2	3869.1	3807.8
37.5°	2005.1	2022.9	2149.9	2400.3	2759.9	3396.6	4318.4	4821.0	4557.3	4063.5	3981.8
40°	1833.7	1850.6	1969.6	2212.0	2599.2	3274.1	4341.5	5067.9	4875.2	4330.8	4243.8
42.5°	1676.6	1691.7	1800.9	2026.4	2418.9	3117.8	4311.3	5282.8	5160.2	4517.3	4405.4
45°	1531.8	1545.1	1641.9	1852.4	2231.6	2927.8	4220.7	5513.7	5499.5	4650.5	4499.6
47.5°	1366.7	1380.0	1480.3	1683.7	2044.2	2704.9	4067.1	5741.0	5971.0	4952.4	4778.4
50°	1165.1	1176.6	1279.6	1489.2	1849.7	2467.8	3854.0	5919.5	6566.0	5409.8	5191.3
52.5°	926.2	938.6	1039.0	1248.5	1618.8	2212.9	3573.4	6035.8	7253.3	6077.6	5808.5
55°	689.1	698.0	785.0	973.3	1332.9	1922.5	3221.7	6068.7	8033.0	6990.4	6653.9
57.5°	500.0	505.3	561.2	701.5	1010.6	1559.4	2794.6	5983.4	8960.9	8160.8	7737.3
60°	404.9	406.7	423.6	485.7	702.4	1149.1	2278.6	5690.4	9967.9	9669.6	9135.9
62.5°	367.6	367.6	372.1	388.9	475.1	758.4	1654.4	5083.0	11047.8	11576.1	10861.3
65°	341.9	341.9	343.7	351.7	374.7	483.1	1044.3	4093.7	11958.0	13809.5	12905.5
67.5°	318.8	319.7	318.8	321.5	334.8	357.0	605.6	2827.4	12448.2	16123.6	15147.7
70°	294.8	296.6	292.2	292.2	302.8	303.7	379.2	1550.5	12041.5	18063.1	17806.4
72.5°	266.4	269.1	262.0	260.2	268.2	264.6	285.1	744.2	10338.2	18642.1	19316.9
75°	241.5	245.1	229.1	224.7	224.7	222.0	231.8	381.8	6709.8	15207.2	16265.7
77.5°	219.3	226.4	200.7	186.5	182.9	174.9	189.1	233.5	2934.9	7139.6	6991.3
80°	181.2	190.9	165.2	148.3	142.1	133.2	149.2	163.4	872.9	1657.9	1587.8
82.5°	135.0	139.4	117.2	105.7	100.3	94.1	111.9	113.7	284.2	587.0	663.3
85°	86.1	87.9	71.9	62.2	59.5	56.8	71.0	62.2	108.3	431.6	626.9
87.5°	30.2	34.6	27.5	24.9	26.6	22.2	32.9	18.6	30.2	304.6	377.4
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)