

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: P883075

Luminaire Tested: **NAV-SB3B-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883075
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-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 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: 16448 lumens
Efficiency: N/A
Efficacy: 150.6 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

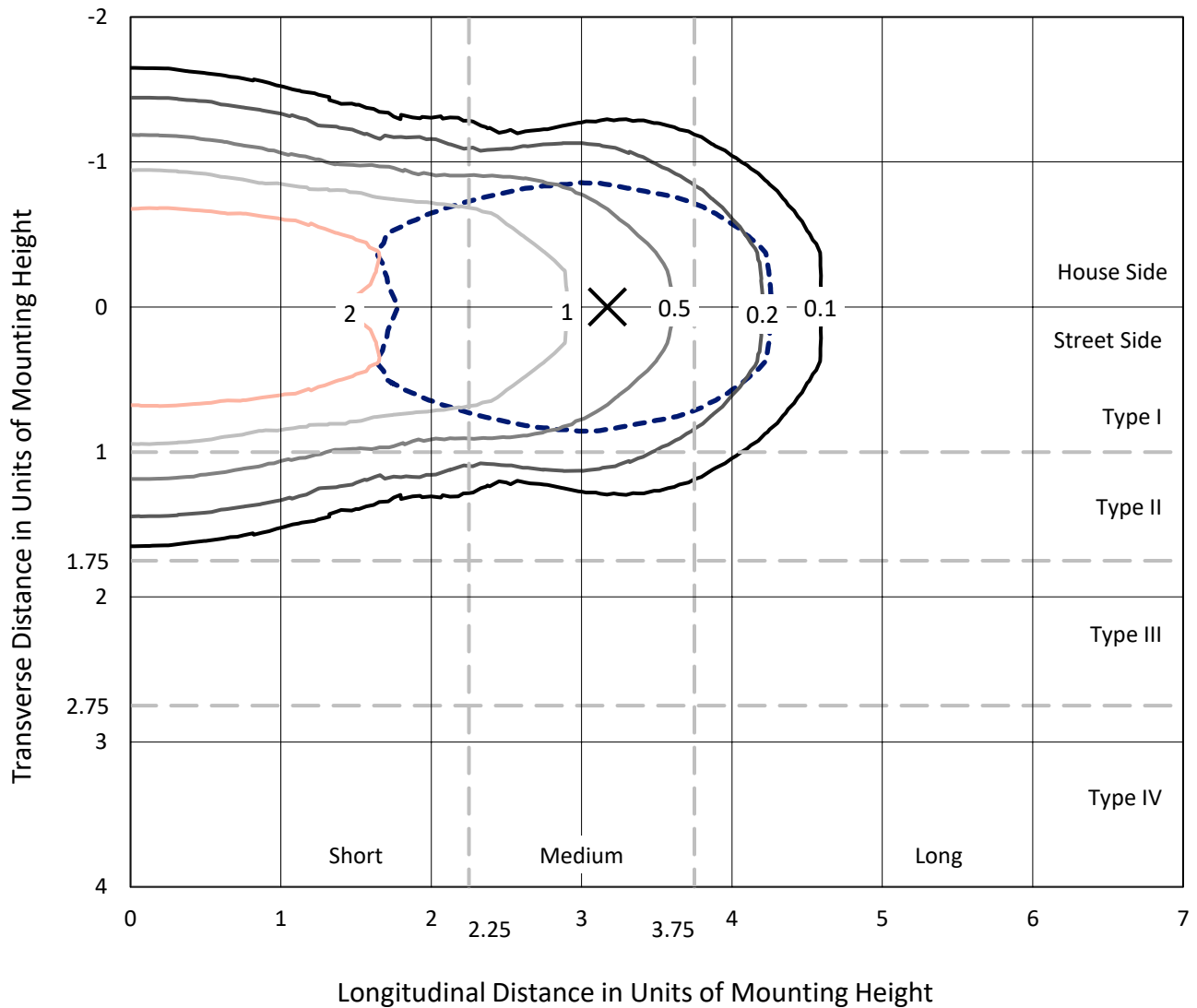
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

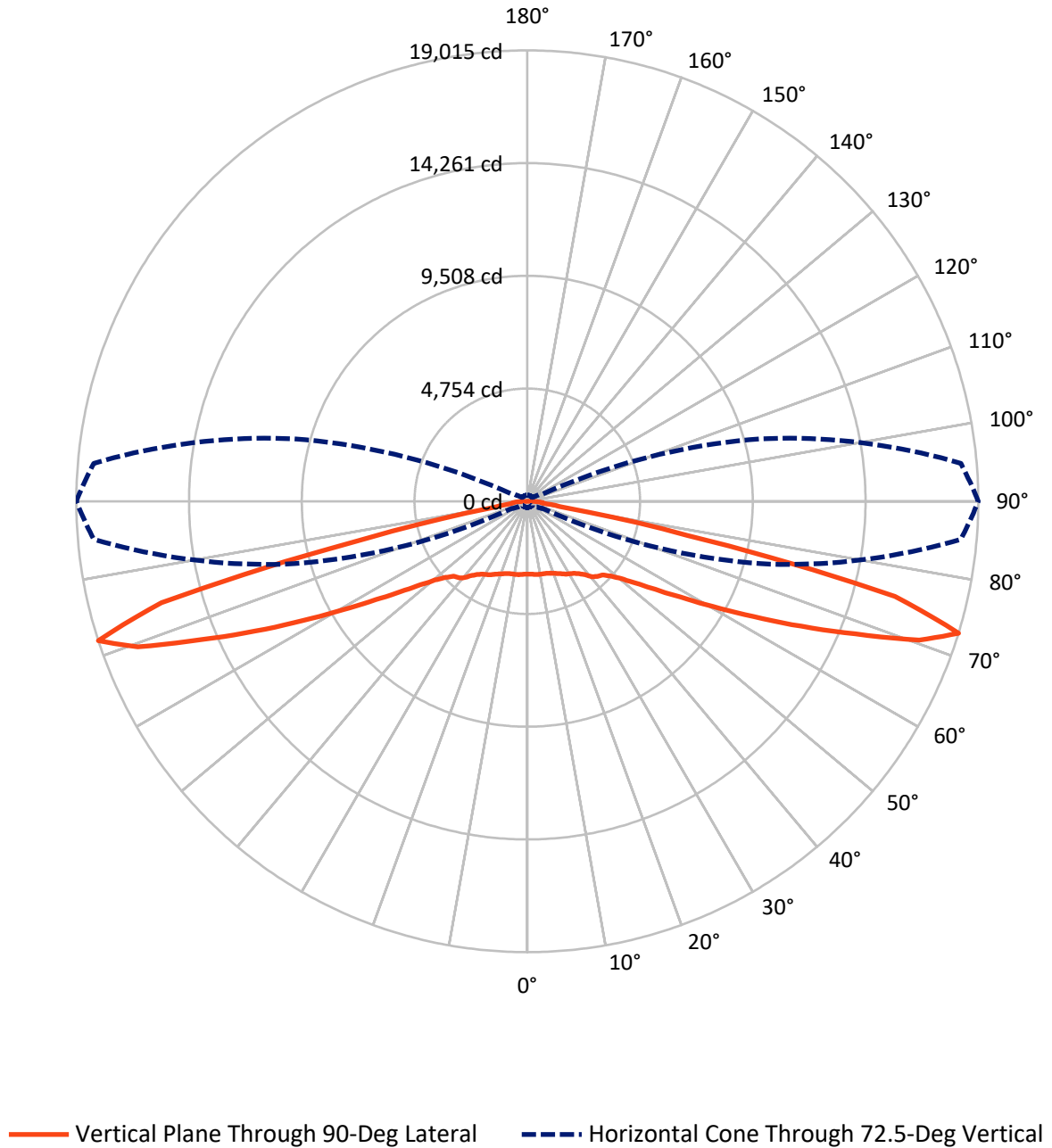
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	8224.0	0.0	8224.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8224.0	0.0	8224.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16448.0	0.0	16448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.0	1.8
10°-20°	911.2	5.5
20°-30°	1519.3	9.2
30°-40°	2089.6	12.7
40°-50°	2551.9	15.5
50°-60°	2951.6	17.9
60°-70°	3519.3	21.4
70°-80°	2456.2	14.9
80°-90°	150.9	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°	16448.0	100.0
0°-180°	16448.0	100.0

Coefficient of Utilization



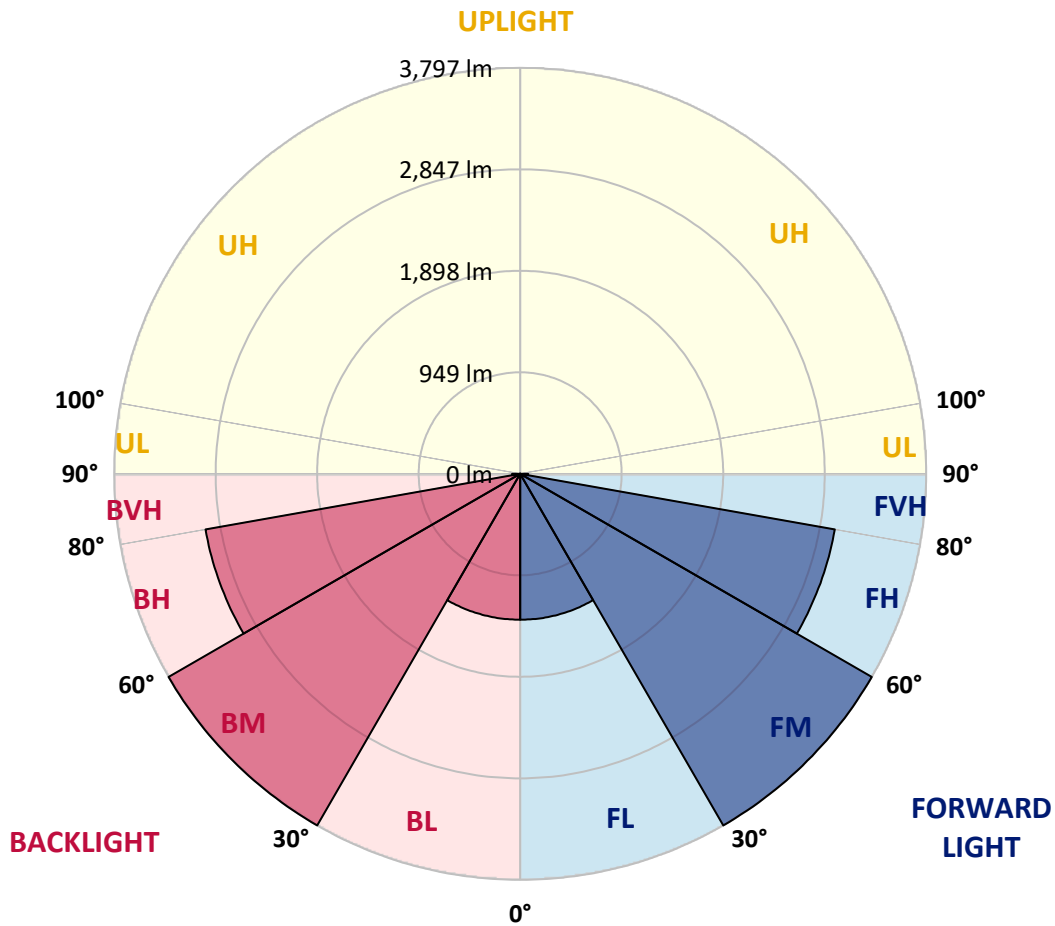
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1364.3	8.3			
FM (30°-60°)	3796.5	23.1			
FH (60°-80°)	2987.8	18.2			G2/5000
FVH (80°-90°)	75.4	0.5			G1/100
BL (0°-30°)	1364.3	8.3	B3/2500		
BM (30°-60°)	3796.5	23.1	B3/5000		
BH (60°-80°)	2987.8	18.2	B4/5000		G4/5000
BVH (80°-90°)	75.4	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°	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5	3073.5
2.5°	3076.1	3079.6	3079.6	3077.0	3083.1	3077.9	3077.9	3075.2	3077.9	3075.2	3075.2
5°	3091.8	3096.2	3098.0	3097.1	3105.0	3100.6	3100.6	3097.1	3098.0	3095.3	3095.3
7.5°	3121.6	3127.7	3131.2	3135.5	3146.9	3141.7	3138.2	3127.7	3123.3	3116.3	3116.3
10°	3131.2	3138.2	3149.5	3172.3	3198.5	3199.4	3188.9	3162.6	3142.5	3126.8	3124.2
12.5°	3101.5	3111.1	3134.7	3181.0	3239.6	3263.2	3246.6	3202.9	3163.5	3135.5	3131.2
15°	3063.9	3074.4	3110.2	3180.1	3266.7	3321.7	3320.0	3262.3	3199.4	3155.7	3148.7
17.5°	3005.3	3015.8	3067.4	3165.3	3287.6	3378.6	3403.0	3343.6	3255.3	3196.7	3187.1
20°	2899.5	2909.1	2980.8	3118.1	3294.6	3438.9	3502.7	3450.2	3340.1	3260.5	3245.7
22.5°	2762.3	2777.1	2861.1	3036.8	3278.0	3501.8	3616.3	3580.5	3438.9	3328.7	3308.6
25°	2615.4	2631.2	2729.1	2937.1	3235.2	3547.3	3750.9	3728.2	3550.8	3413.5	3385.6
27.5°	2488.7	2505.3	2611.9	2838.3	3168.8	3564.8	3883.8	3895.2	3686.3	3507.1	3477.3
30°	2389.0	2404.8	2518.4	2758.8	3083.1	3547.3	4000.1	4078.7	3824.4	3588.4	3545.5
32.5°	2279.8	2299.9	2419.6	2661.8	2981.7	3505.3	4101.5	4277.2	3984.3	3675.8	3621.6
35°	2141.6	2160.0	2285.9	2528.9	2848.8	3438.0	4186.3	4497.5	4213.4	3808.6	3748.3
37.5°	1973.8	1991.3	2116.3	2362.8	2716.8	3343.6	4251.0	4745.7	4486.1	4000.1	3919.7
40°	1805.1	1821.7	1938.8	2177.5	2558.6	3223.0	4273.7	4988.7	4799.0	4263.2	4177.5
42.5°	1650.4	1665.2	1772.8	1994.8	2381.2	3069.1	4244.0	5200.3	5079.6	4446.8	4336.6
45°	1507.9	1521.0	1616.3	1823.5	2196.7	2882.0	4154.8	5427.5	5413.6	4577.9	4429.3
47.5°	1345.3	1358.4	1457.2	1657.4	2012.3	2662.6	4003.6	5651.3	5877.7	4875.1	4703.8
50°	1146.9	1158.2	1259.6	1465.9	1820.8	2429.2	3793.8	5827.0	6463.4	5325.3	5110.2
52.5°	911.7	924.0	1022.7	1229.0	1593.6	2178.4	3517.5	5941.5	7140.0	5982.6	5717.8
55°	678.3	687.1	772.7	958.1	1312.1	1892.5	3171.4	5973.9	7907.5	6881.2	6549.9
57.5°	492.1	497.4	552.5	690.6	994.8	1535.0	2750.9	5890.0	8821.0	8033.4	7616.4
60°	398.6	400.4	417.0	478.2	691.4	1131.1	2243.0	5601.5	9812.2	9518.5	8993.2
62.5°	361.9	361.9	366.3	382.9	467.7	746.5	1628.5	5003.6	10875.2	11395.3	10691.6
65°	336.5	336.5	338.3	346.2	368.9	475.5	1028.0	4029.8	11771.2	13593.8	12703.9
67.5°	313.8	314.7	313.8	316.4	329.6	351.4	596.2	2783.3	12253.7	15871.8	14911.1
70°	290.2	292.0	287.6	287.6	298.1	299.0	373.3	1526.3	11853.4	17780.9	17528.3
72.5°	262.2	264.9	257.9	256.1	264.0	260.5	280.6	732.5	10176.8	18350.9	19015.2
75°	237.8	241.3	225.5	221.2	221.2	218.5	228.2	375.9	6605.0	14969.7	16011.7
77.5°	215.9	222.9	197.6	183.6	180.1	172.2	186.2	229.9	2889.0	7028.1	6882.1
80°	178.3	187.9	162.6	146.0	139.9	131.1	146.9	160.8	859.3	1632.0	1563.0
82.5°	132.9	137.2	115.4	104.0	98.8	92.7	110.1	111.9	279.7	577.8	653.0
85°	84.8	86.5	70.8	61.2	58.6	55.9	69.9	61.2	106.6	424.8	617.1
87.5°	29.7	34.1	27.1	24.5	26.2	21.9	32.3	18.4	29.7	299.8	371.5
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)