

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: P883105

Luminaire Tested: **NAV-SB3B-750-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883105
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-750-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18014 lumens
Efficiency: N/A
Efficacy: 165.0 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

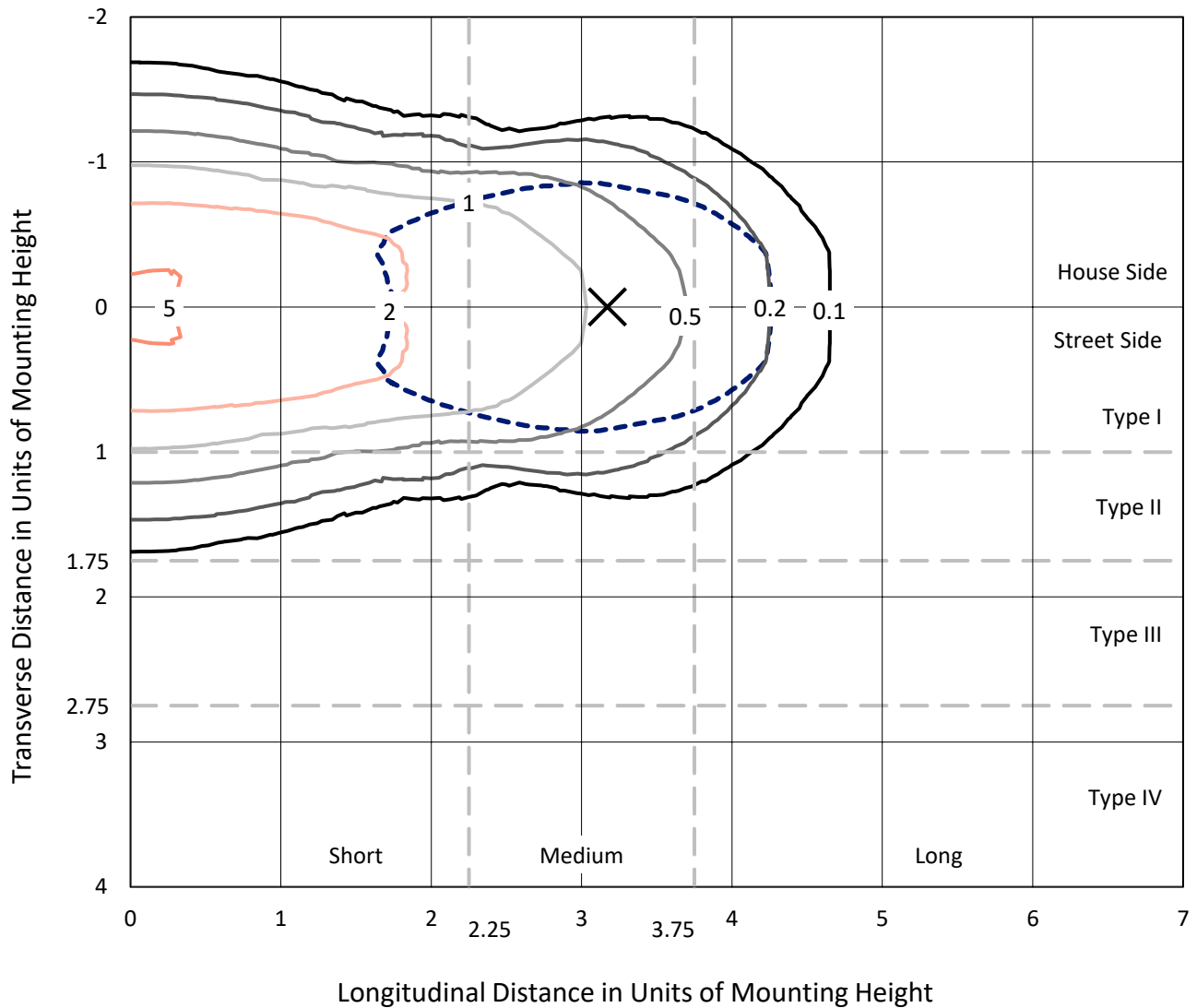
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

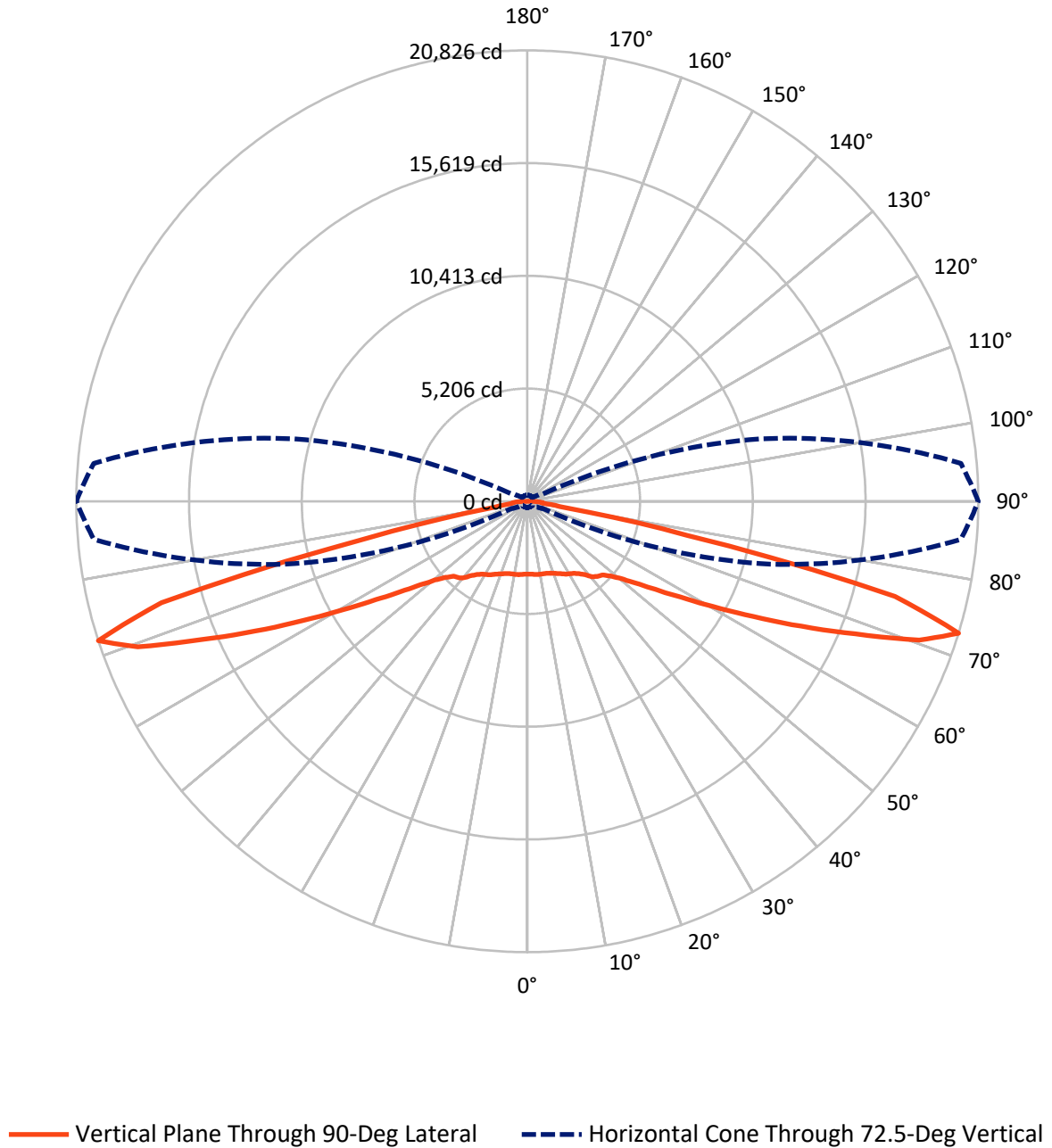
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	9007.0	0.0	9007.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9007.0	0.0	9007.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18014.0	0.0	18014.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	1.8
10°-20°	998.0	5.5
20°-30°	1664.0	9.2
30°-40°	2288.5	12.7
40°-50°	2794.9	15.5
50°-60°	3232.6	17.9
60°-70°	3854.3	21.4
70°-80°	2690.1	14.9
80°-90°	165.2	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°	18014.0	100.0
0°-180°	18014.0	100.0

Coefficient of Utilization



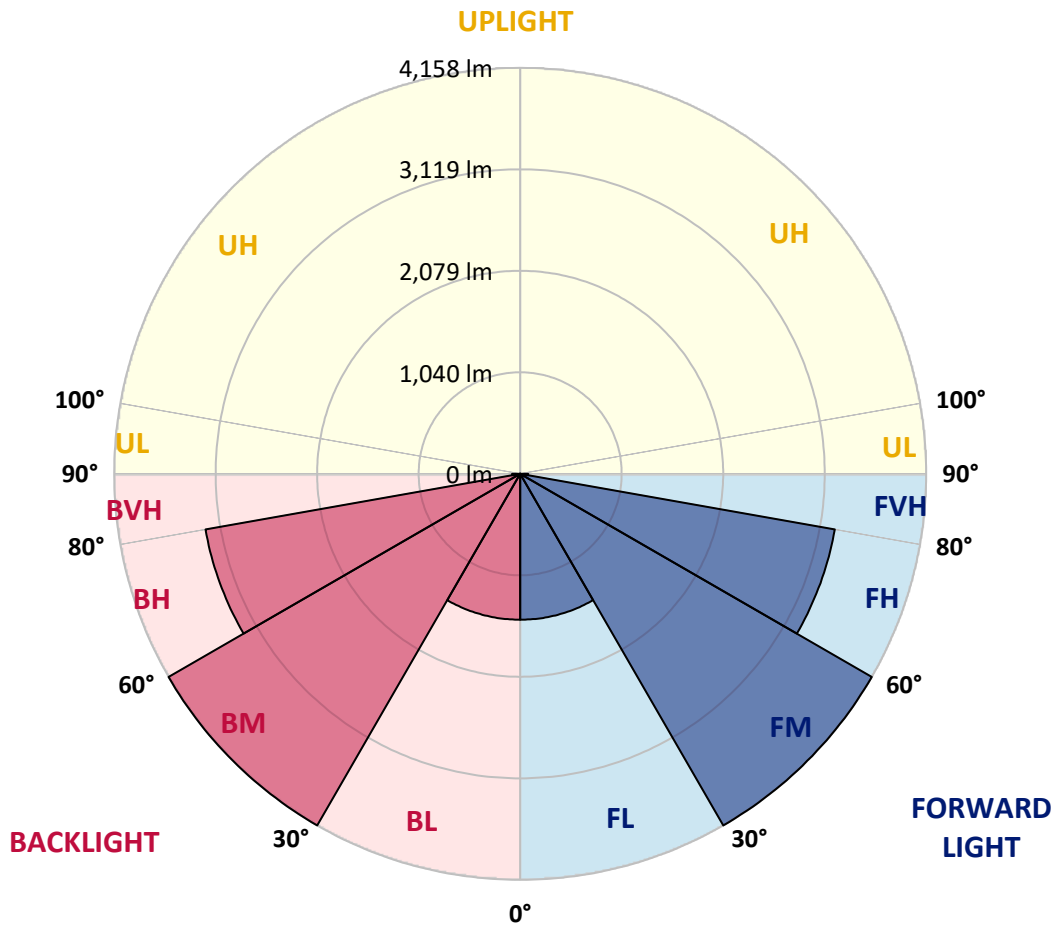
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1494.2	8.3			
FM (30°-60°)	4158.0	23.1			
FH (60°-80°)	3272.2	18.2			G2/5000
FVH (80°-90°)	82.6	0.5			G1/100
BL (0°-30°)	1494.2	8.3	B3/2500		
BM (30°-60°)	4158.0	23.1	B3/5000		
BH (60°-80°)	3272.2	18.2	B4/5000		G4/5000
BVH (80°-90°)	82.6	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°	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1
2.5°	3369.0	3372.8	3372.8	3369.9	3376.6	3370.9	3370.9	3368.0	3370.9	3368.0	3368.0
5°	3386.2	3391.0	3392.9	3392.0	3400.6	3395.8	3395.8	3392.0	3392.9	3390.0	3390.0
7.5°	3418.8	3425.5	3429.3	3434.1	3446.5	3440.8	3437.0	3425.5	3420.7	3413.0	3413.0
10°	3429.3	3437.0	3449.4	3474.3	3503.0	3504.0	3492.5	3463.8	3441.7	3424.5	3421.6
12.5°	3396.7	3407.3	3433.1	3483.9	3548.0	3573.9	3555.7	3507.8	3464.7	3434.1	3429.3
15°	3355.6	3367.1	3406.3	3482.9	3577.7	3638.0	3636.1	3572.9	3504.0	3456.1	3448.4
17.5°	3291.4	3302.9	3359.4	3466.6	3600.7	3700.2	3727.0	3661.9	3565.2	3501.1	3490.6
20°	3175.6	3186.1	3264.6	3414.9	3608.3	3766.3	3836.2	3778.7	3658.1	3571.0	3554.7
22.5°	3025.3	3041.6	3133.5	3325.9	3590.1	3835.2	3960.6	3921.4	3766.3	3645.7	3623.6
25°	2864.4	2881.7	2988.9	3216.8	3543.2	3885.0	4108.1	4083.2	3888.8	3738.5	3707.9
27.5°	2725.6	2743.8	2860.6	3108.6	3470.5	3904.1	4253.6	4266.0	4037.2	3841.0	3808.4
30°	2616.5	2633.7	2758.2	3021.5	3376.6	3885.0	4380.9	4467.1	4188.5	3930.0	3883.1
32.5°	2496.8	2518.8	2650.0	2915.2	3265.6	3839.0	4492.0	4684.4	4363.7	4025.7	3966.4
35°	2345.6	2365.7	2503.5	2769.7	3120.1	3765.3	4584.8	4925.7	4614.5	4171.3	4105.2
37.5°	2161.7	2180.9	2317.8	2587.8	2975.5	3661.9	4655.7	5197.6	4913.2	4380.9	4292.8
40°	1977.0	1995.2	2123.4	2384.8	2802.2	3529.8	4680.6	5463.7	5256.0	4669.1	4575.3
42.5°	1807.5	1823.8	1941.5	2184.7	2607.9	3361.3	4648.0	5695.4	5563.3	4870.1	4749.5
45°	1651.5	1665.8	1770.2	1997.1	2405.9	3156.4	4550.4	5944.3	5929.0	5013.7	4851.0
47.5°	1473.4	1487.7	1595.9	1815.2	2203.9	2916.1	4384.7	6189.4	6437.3	5339.2	5151.6
50°	1256.1	1268.5	1379.6	1605.5	1994.2	2660.5	4155.0	6381.8	7078.8	5832.3	5596.8
52.5°	998.5	1011.9	1120.1	1346.1	1745.3	2385.8	3852.4	6507.2	7819.8	6552.2	6262.1
55°	742.9	752.5	846.3	1049.3	1437.0	2072.7	3473.3	6542.7	8660.4	7536.4	7173.6
57.5°	539.0	544.7	605.1	756.3	1089.5	1681.1	3012.8	6450.7	9660.8	8798.2	8341.5
60°	436.6	438.5	456.7	523.7	757.3	1238.8	2456.6	6134.8	10746.5	10424.8	9849.4
62.5°	396.4	396.4	401.1	419.3	512.2	817.6	1783.6	5480.0	11910.6	12480.2	11709.6
65°	368.6	368.6	370.5	379.1	404.0	520.8	1125.9	4413.5	12891.9	14888.0	13913.4
67.5°	343.7	344.7	343.7	346.6	360.9	384.9	652.9	3048.3	13420.4	17382.9	16330.8
70°	317.8	319.8	315.0	315.0	326.5	327.4	408.8	1671.6	12981.9	19473.8	19197.1
72.5°	287.2	290.1	282.4	280.5	289.1	285.3	307.3	802.3	11145.7	20098.0	20825.6
75°	260.4	264.2	247.0	242.2	242.2	239.3	249.9	411.7	7233.9	16394.9	17536.1
77.5°	236.5	244.1	216.4	201.0	197.2	188.6	203.9	251.8	3164.1	7697.2	7537.4
80°	195.3	205.8	178.1	159.9	153.2	143.6	160.8	176.2	941.1	1787.4	1711.8
82.5°	145.5	150.3	126.4	113.9	108.2	101.5	120.6	122.5	306.4	632.8	715.2
85°	92.9	94.8	77.5	67.0	64.1	61.3	76.6	67.0	116.8	465.3	675.9
87.5°	32.6	37.3	29.7	26.8	28.7	23.9	35.4	20.1	32.6	328.4	406.9
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)