

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: P884975

Luminaire Tested: **NAV-SB6A-750-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884975
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-SB6A-750-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29039 lumens
Efficiency: N/A
Efficacy: 169.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

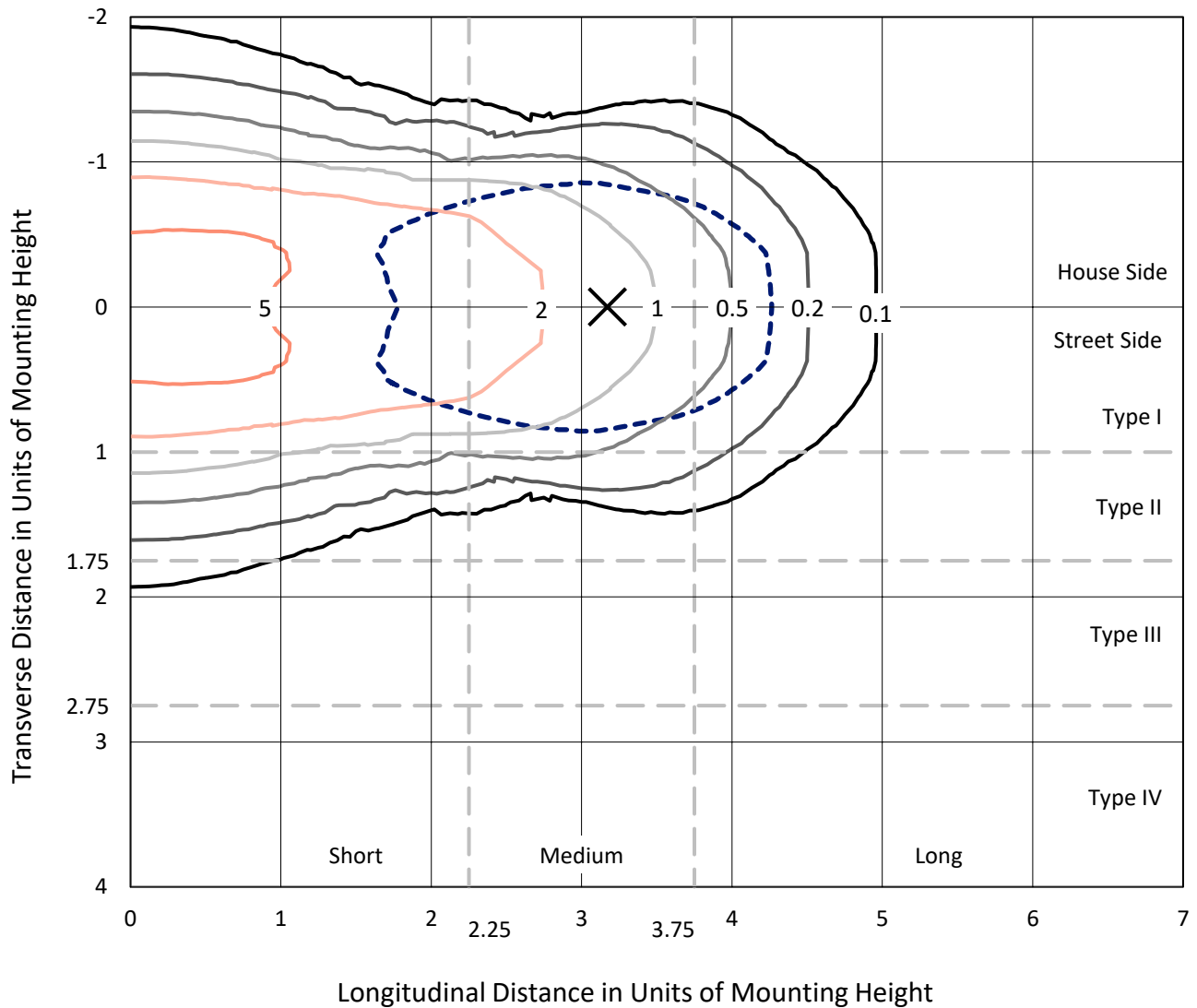
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

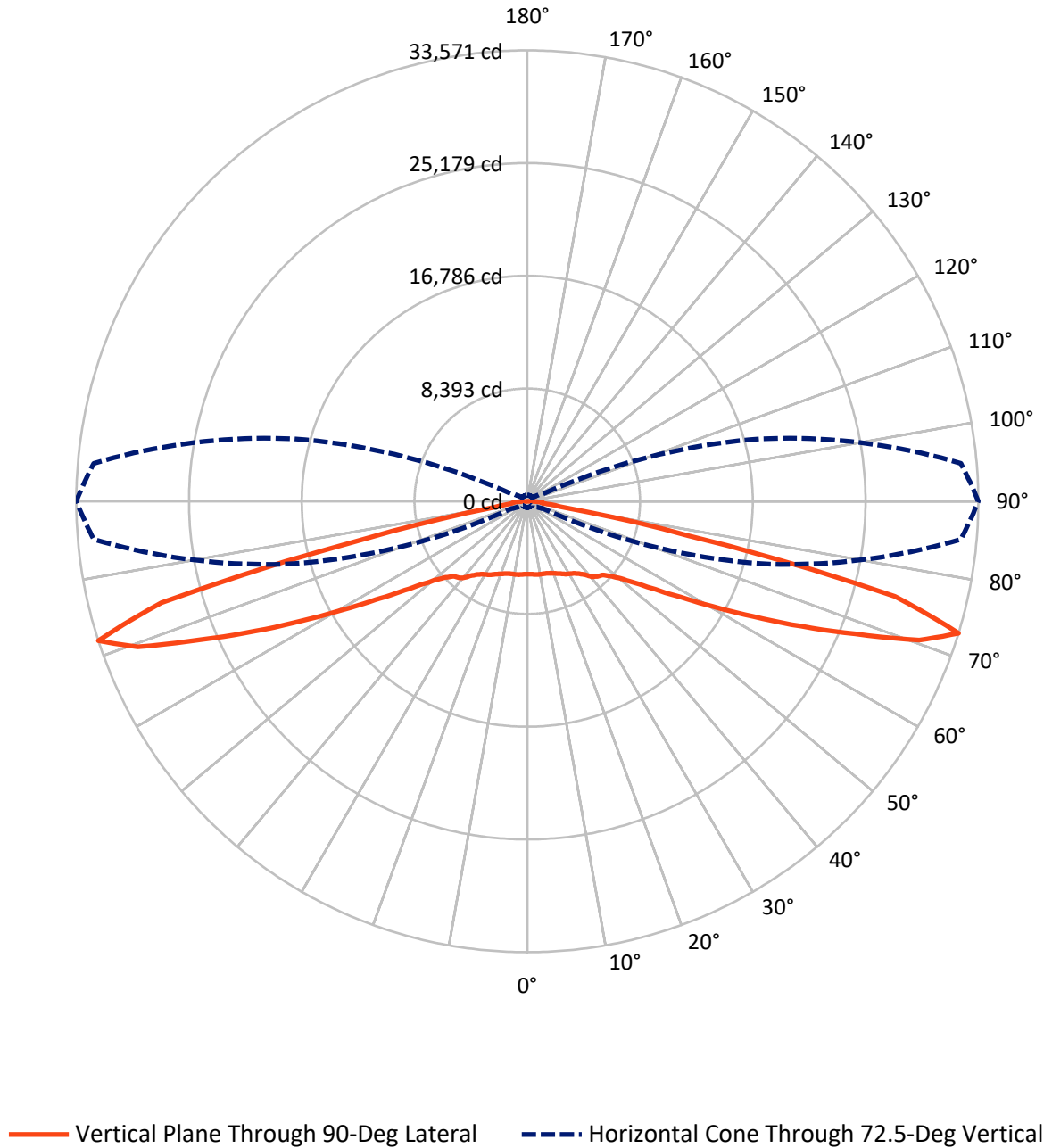
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	14519.5	0.0	14519.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14519.5	0.0	14519.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29039.0	0.0	29039.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.1	1.8
10°-20°	1608.7	5.5
20°-30°	2682.4	9.2
30°-40°	3689.1	12.7
40°-50°	4505.4	15.5
50°-60°	5211.0	17.9
60°-70°	6213.3	21.4
70°-80°	4336.5	14.9
80°-90°	266.4	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°	29039.0	100.0
0°-180°	29039.0	100.0



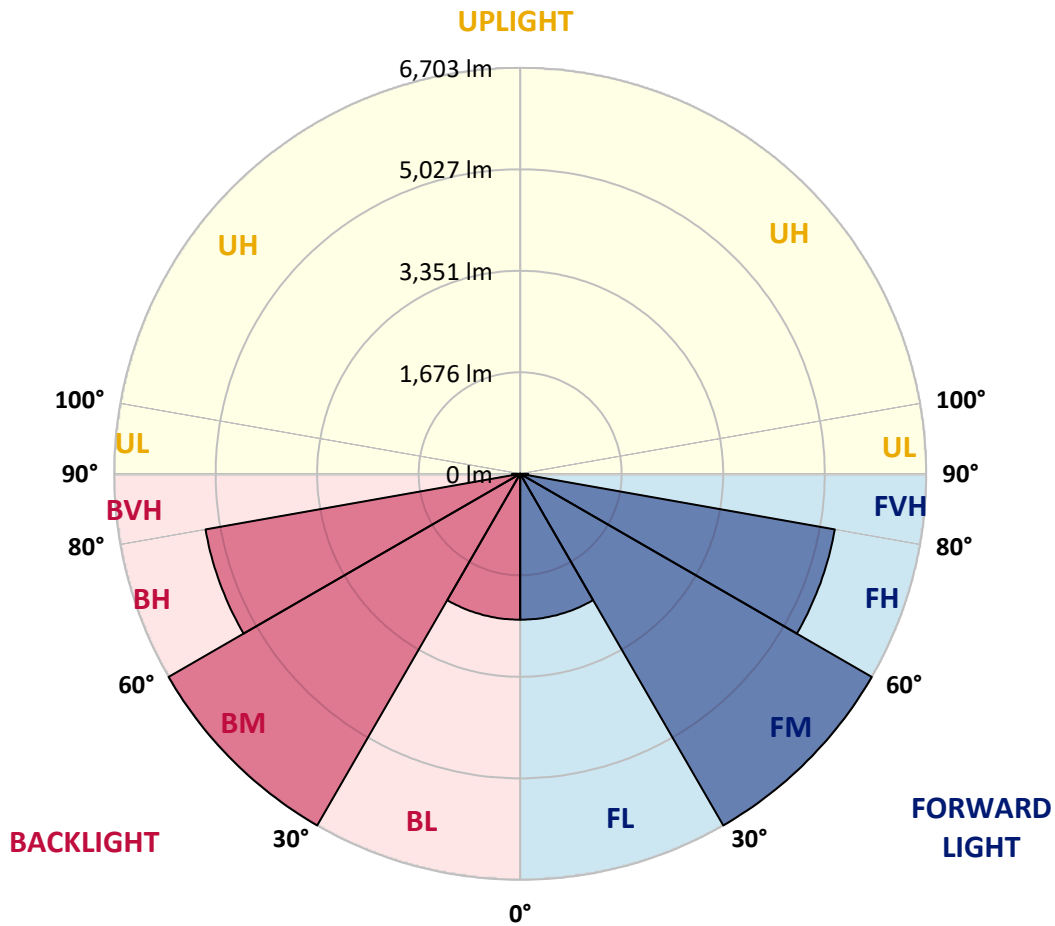
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2408.6	8.3			
FM (30°-60°)	6702.8	23.1			
FH (60°-80°)	5274.9	18.2			G3/7500
FVH (80°-90°)	133.2	0.5			G2/225
BL (0°-30°)	2408.6	8.3	B3/2500		
BM (30°-60°)	6702.8	23.1	B4/8500		
BH (60°-80°)	5274.9	18.2	B5		G5
BVH (80°-90°)	133.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2	5426.2
2.5°	5430.9	5437.0	5437.0	5432.4	5443.2	5434.0	5434.0	5429.3	5434.0	5429.3	5429.3
5°	5458.7	5466.4	5469.5	5467.9	5481.8	5474.1	5474.1	5467.9	5469.5	5464.8	5464.8
7.5°	5511.1	5521.9	5528.1	5535.8	5555.9	5546.6	5540.4	5521.9	5514.2	5501.9	5501.9
10°	5528.1	5540.4	5560.5	5600.6	5646.9	5648.5	5630.0	5583.7	5548.2	5520.4	5515.8
12.5°	5475.6	5492.6	5534.3	5616.1	5719.5	5761.1	5731.8	5654.7	5585.2	5535.8	5528.1
15°	5409.3	5427.8	5491.1	5614.5	5767.3	5864.5	5861.5	5759.6	5648.5	5571.3	5559.0
17.5°	5305.9	5324.4	5415.4	5588.3	5804.4	5964.9	6008.1	5903.1	5747.3	5643.8	5626.9
20°	5119.1	5136.1	5262.7	5505.0	5816.7	6071.3	6184.0	6091.4	5897.0	5756.5	5730.3
22.5°	4876.8	4903.1	5051.2	5361.4	5787.4	6182.5	6384.6	6321.4	6071.3	5876.9	5841.4
25°	4617.6	4645.3	4818.2	5185.5	5711.8	6262.7	6622.3	6582.2	6268.9	6026.6	5977.2
27.5°	4393.8	4423.1	4611.4	5011.1	5594.5	6293.6	6856.9	6876.9	6508.1	6191.7	6139.2
30°	4217.8	4245.6	4446.2	4870.7	5443.2	6262.7	7062.1	7201.0	6751.9	6335.2	6259.6
32.5°	4024.9	4060.4	4271.9	4699.3	5264.2	6188.6	7241.2	7551.4	7034.4	6489.6	6393.9
35°	3781.1	3813.5	4035.7	4464.8	5029.6	6069.8	7390.9	7940.3	7438.7	6724.2	6617.7
37.5°	3484.8	3515.6	3736.3	4171.5	4796.6	5903.1	7505.1	8378.6	7920.2	7062.1	6920.2
40°	3186.9	3216.2	3423.0	3844.4	4517.2	5690.1	7545.2	8807.6	8472.7	7526.7	7375.4
42.5°	2913.8	2940.0	3129.8	3521.8	4203.9	5418.5	7492.7	9181.1	8968.1	7850.8	7656.3
45°	2662.2	2685.3	2853.6	3219.3	3878.3	5088.3	7335.3	9582.4	9557.7	8082.3	7819.9
47.5°	2375.1	2398.3	2572.7	2926.1	3552.7	4700.9	7068.3	9977.4	10377.2	8607.0	8304.5
50°	2024.8	2044.9	2223.9	2588.1	3214.7	4288.8	6697.9	10287.6	11411.2	9401.8	9022.1
52.5°	1609.7	1631.3	1805.7	2169.9	2813.4	3845.9	6210.2	10489.8	12605.7	10562.3	10094.7
55°	1197.6	1213.0	1364.3	1691.5	2316.5	3341.2	5599.1	10546.9	13960.7	12148.9	11563.9
57.5°	868.9	878.1	975.4	1219.2	1756.3	2710.0	4856.8	10398.8	15573.4	14182.9	13446.8
60°	703.7	706.8	736.2	844.2	1220.8	1997.0	3960.1	9889.5	17323.5	16805.0	15877.5
62.5°	638.9	638.9	646.6	676.0	825.7	1318.0	2875.2	8833.9	19200.2	20118.5	18876.1
65°	594.2	594.2	597.3	611.1	651.3	839.6	1814.9	7114.6	20782.1	23999.9	22428.8
67.5°	554.0	555.6	554.0	558.7	581.8	620.4	1052.5	4913.9	21634.0	28021.7	26325.6
70°	512.4	515.5	507.7	507.7	526.3	527.8	659.0	2694.6	20927.2	31392.3	30946.3
72.5°	463.0	467.6	455.3	452.2	466.1	459.9	495.4	1293.3	17967.1	32398.5	33571.4
75°	419.8	426.0	398.2	390.5	390.5	385.8	402.8	663.6	11661.2	26429.0	28268.6
77.5°	381.2	393.5	348.8	324.1	317.9	304.0	328.7	405.9	5100.6	12408.1	12150.4
80°	314.8	331.8	287.1	257.7	246.9	231.5	259.3	284.0	1517.1	2881.3	2759.4
82.5°	234.6	242.3	203.7	183.7	174.4	163.6	194.5	197.5	493.9	1020.1	1152.8
85°	149.7	152.8	125.0	108.0	103.4	98.8	123.5	108.0	188.3	750.0	1089.6
87.5°	52.5	60.2	47.8	43.2	46.3	38.6	57.1	32.4	52.5	529.4	655.9
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)