

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: P967108

Luminaire Tested: **NAV-SB4D-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4D-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34162.2 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

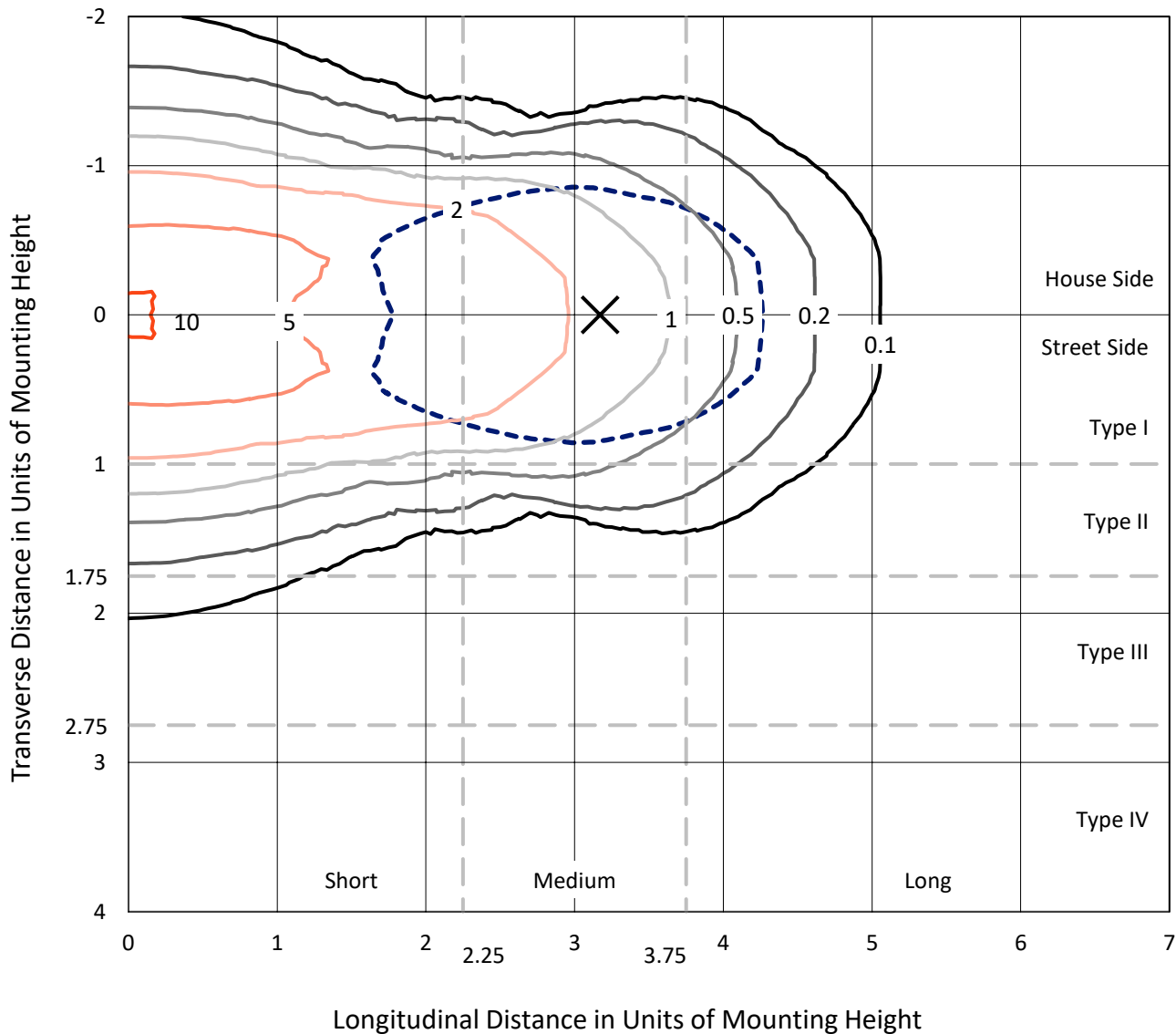
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

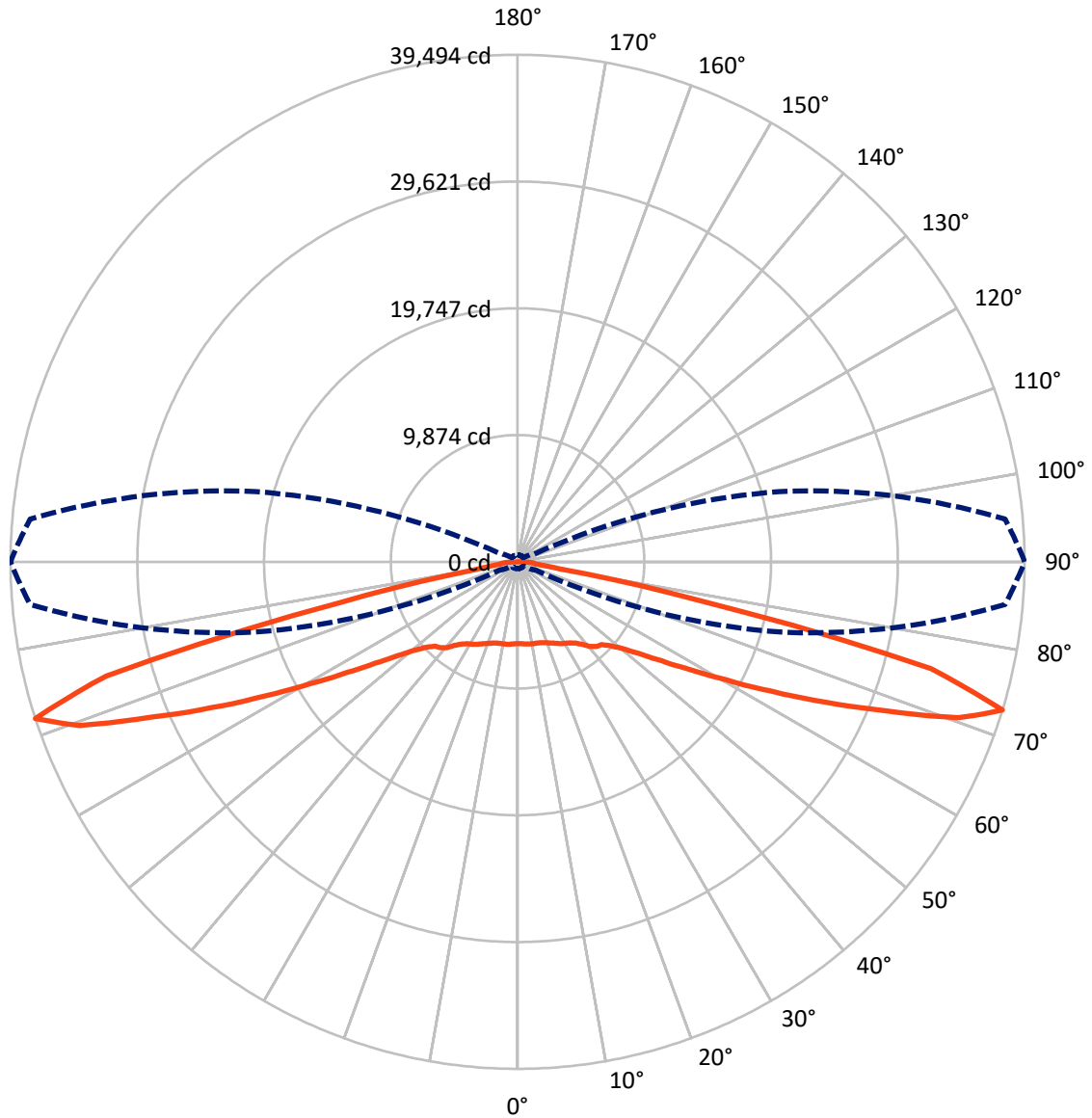
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17081.1	0.0	17081.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17081.1	0.0	17081.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	34162.2	0.0	34162.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.0	1.8
10°-20°	1892.5	5.5
20°-30°	3155.7	9.2
30°-40°	4340.0	12.7
40°-50°	5300.3	15.5
50°-60°	6130.4	17.9
60°-70°	7309.5	21.4
70°-80°	5101.5	14.9
80°-90°	313.3	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°	34162.2	100.0
0°-180°	34162.2	100.0

Coefficient of Utilization

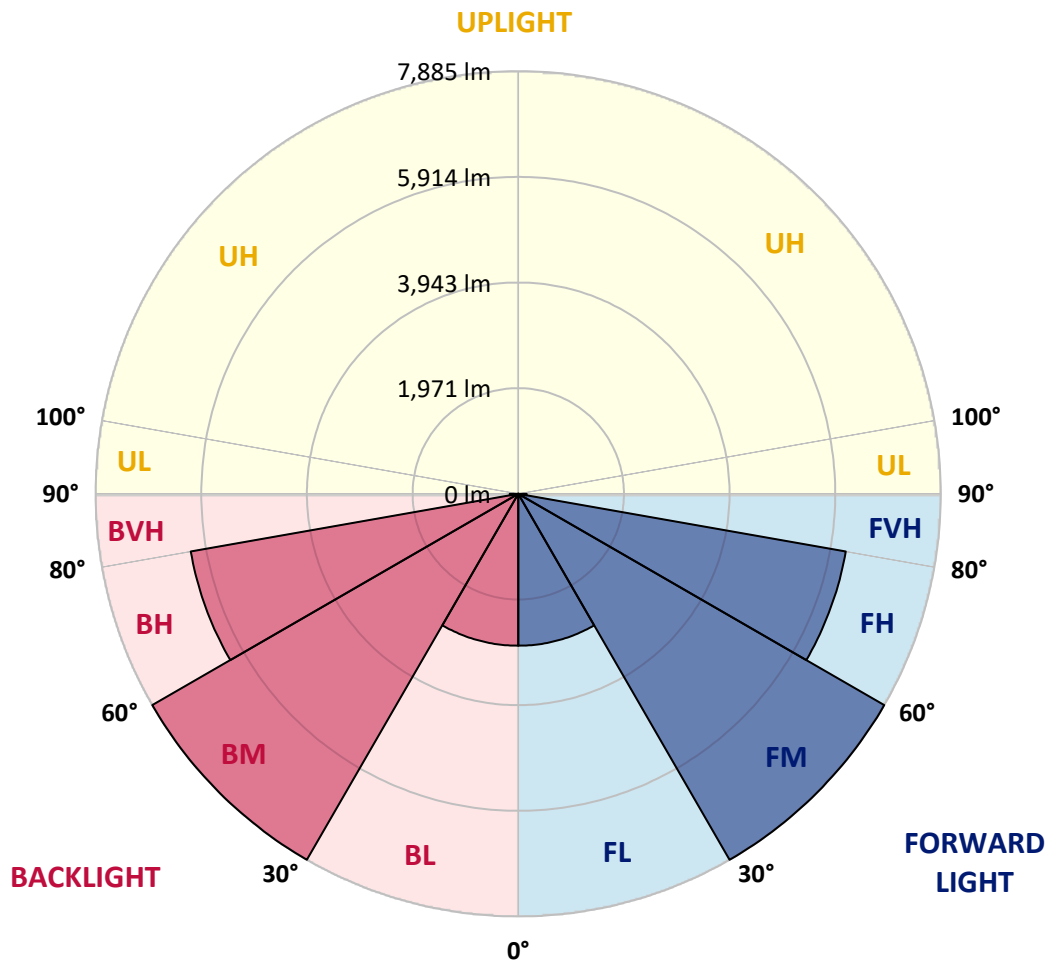


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2833.6	8.3			
FM (30°-60°)	7885.4	23.1			
FH (60°-80°)	6205.5	18.2			G3/7500
FVH (80°-90°)	156.7	0.5			G2/225
BL (0°-30°)	2833.6	8.3	B4/5000		
BM (30°-60°)	7885.4	23.1	B4/8500		
BH (60°-80°)	6205.5	18.2	B5		G5
BVH (80°-90°)	156.7	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°	6383.6	6383.6	6383.6	6383.6	6383.6	6383.6	6383.6	6383.6	6383.6	6383.6	6383.6
2.5°	6389.0	6396.3	6396.3	6390.9	6403.6	6392.6	6392.6	6387.2	6392.6	6387.2	6387.2
5°	6421.7	6430.7	6434.4	6432.6	6448.9	6439.9	6439.9	6432.6	6434.4	6429.0	6429.0
7.5°	6483.4	6496.1	6503.4	6512.4	6536.1	6525.2	6518.0	6496.1	6487.0	6472.6	6472.6
10°	6503.4	6518.0	6541.5	6588.7	6643.2	6645.0	6623.2	6568.7	6527.0	6494.3	6488.9
12.5°	6441.7	6461.6	6510.7	6606.8	6728.5	6777.5	6743.1	6652.2	6570.6	6512.4	6503.4
15°	6363.6	6385.3	6459.9	6605.1	6784.8	6899.2	6895.6	6775.8	6645.0	6554.3	6539.7
17.5°	6241.9	6263.8	6370.9	6574.2	6828.3	7017.3	7068.1	6944.6	6761.2	6639.5	6619.6
20°	6022.3	6042.3	6191.1	6476.2	6842.9	7142.5	7275.0	7166.1	6937.3	6772.1	6741.2
22.5°	5737.2	5768.1	5942.4	6307.3	6808.5	7273.2	7511.1	7436.6	7142.5	6913.7	6872.0
25°	5432.2	5464.9	5668.2	6100.4	6719.5	7367.6	7790.6	7743.5	7374.9	7089.8	7031.7
27.5°	5169.0	5203.4	5424.9	5895.2	6581.4	7403.9	8066.6	8090.2	7656.3	7284.1	7222.4
30°	4962.0	4994.6	5230.7	5730.0	6403.6	7367.6	8308.0	8471.5	7943.1	7453.0	7364.0
32.5°	4735.0	4776.8	5025.5	5528.4	6192.9	7280.5	8518.7	8883.6	8275.4	7634.5	7522.0
35°	4448.2	4486.3	4747.7	5252.5	5917.0	7140.7	8694.8	9341.1	8751.0	7910.4	7785.2
37.5°	4099.6	4135.9	4395.5	4907.5	5642.8	6944.6	8829.1	9856.8	9317.6	8308.0	8141.1
40°	3749.1	3783.7	4026.9	4522.6	5314.2	6694.1	8876.4	10361.5	9967.5	8854.6	8676.6
42.5°	3427.8	3458.7	3682.0	4143.2	4945.6	6374.5	8814.6	10800.8	10550.3	9235.9	9007.1
45°	3131.9	3159.2	3357.0	3787.3	4562.6	5986.0	8629.5	11272.9	11243.8	9508.2	9199.6
47.5°	2794.1	2821.4	3026.5	3442.4	4179.4	5530.3	8315.3	11737.7	12208.0	10125.5	9769.6
50°	2382.0	2405.7	2616.2	3044.8	3781.8	5045.5	7879.6	12102.7	13424.4	11060.5	10613.9
52.5°	1893.7	1919.1	2124.2	2552.7	3309.8	4524.5	7305.9	12340.5	14829.6	12425.8	11875.6
55°	1408.9	1427.0	1604.9	1989.8	2725.2	3930.8	6587.0	12407.6	16423.7	14292.2	13604.1
57.5°	1022.1	1033.1	1147.5	1434.3	2066.1	3188.2	5713.7	12233.4	18321.0	16685.2	15819.1
60°	827.9	831.6	866.0	993.1	1436.1	2349.4	4658.7	11634.3	20379.9	19769.8	18678.7
62.5°	751.6	751.6	760.8	795.2	971.3	1550.5	3382.4	10392.4	22587.6	23667.9	22206.3
65°	698.9	698.9	702.6	718.9	766.2	987.7	2135.1	8369.8	24448.6	28234.0	26385.8
67.5°	651.8	653.6	651.8	657.2	684.5	729.9	1238.2	5780.8	25450.7	32965.4	30970.2
70°	602.8	606.4	597.4	597.4	619.1	620.9	775.2	3170.0	24619.3	36930.6	36406.0
72.5°	544.7	550.1	535.6	532.0	548.3	541.0	582.8	1521.4	21136.9	38114.4	39494.3
75°	493.8	501.1	468.4	459.3	459.3	453.9	473.9	780.7	13718.5	31091.7	33255.9
77.5°	448.4	463.0	410.3	381.3	374.0	357.6	386.7	477.5	6000.5	14597.2	14294.0
80°	370.3	390.3	337.7	303.2	290.5	272.3	305.0	334.0	1784.7	3389.7	3246.3
82.5°	275.9	285.1	239.6	216.1	205.2	192.5	228.8	232.4	581.0	1200.1	1356.3
85°	176.1	179.8	147.1	127.1	121.7	116.2	145.2	127.1	221.5	882.3	1281.8
87.5°	61.7	70.8	56.3	50.8	54.4	45.4	67.1	38.1	61.7	622.8	771.6
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)