

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: P968151

Luminaire Tested: **NAV-SB5B-722-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-722-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24801.9 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

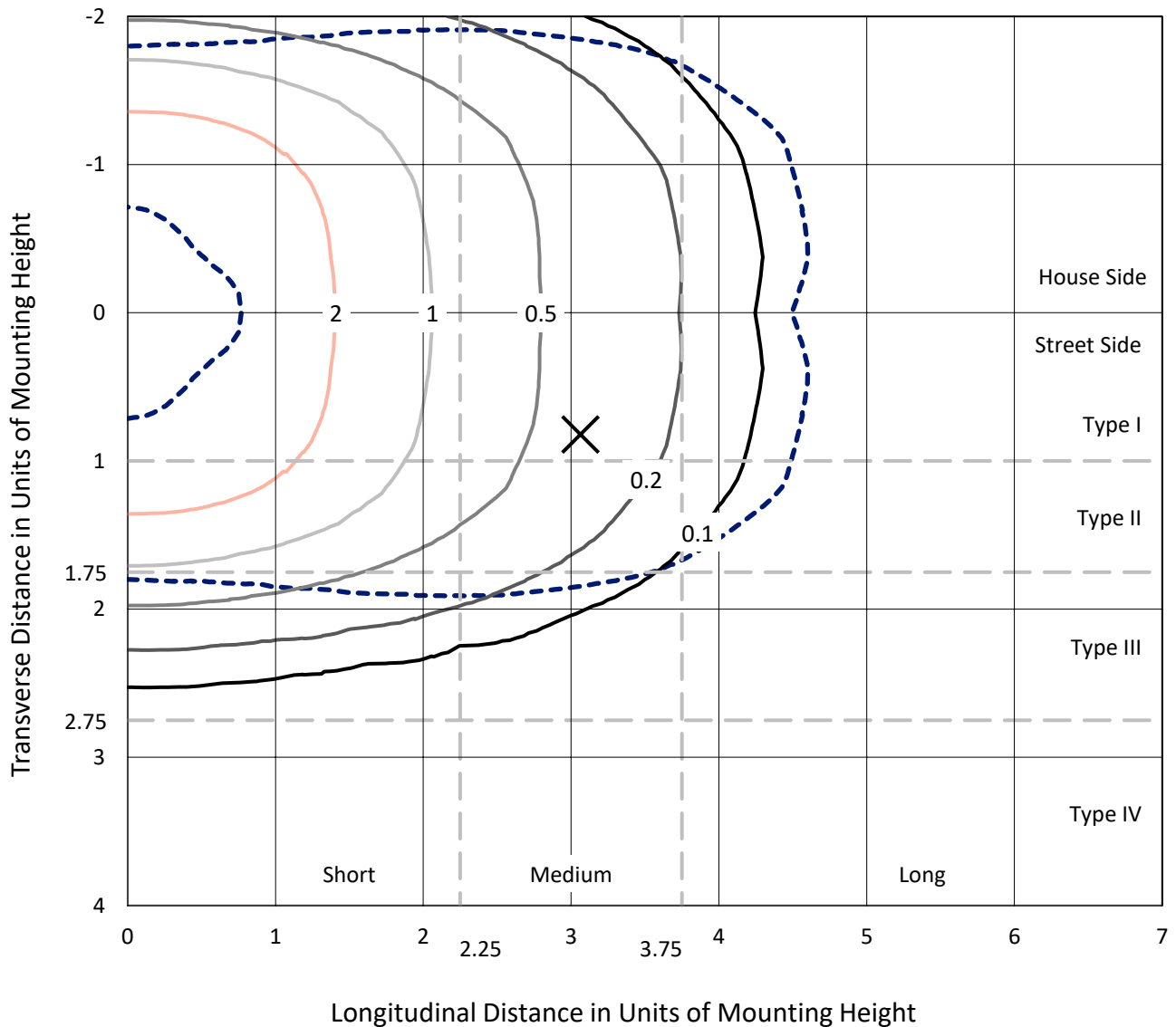
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

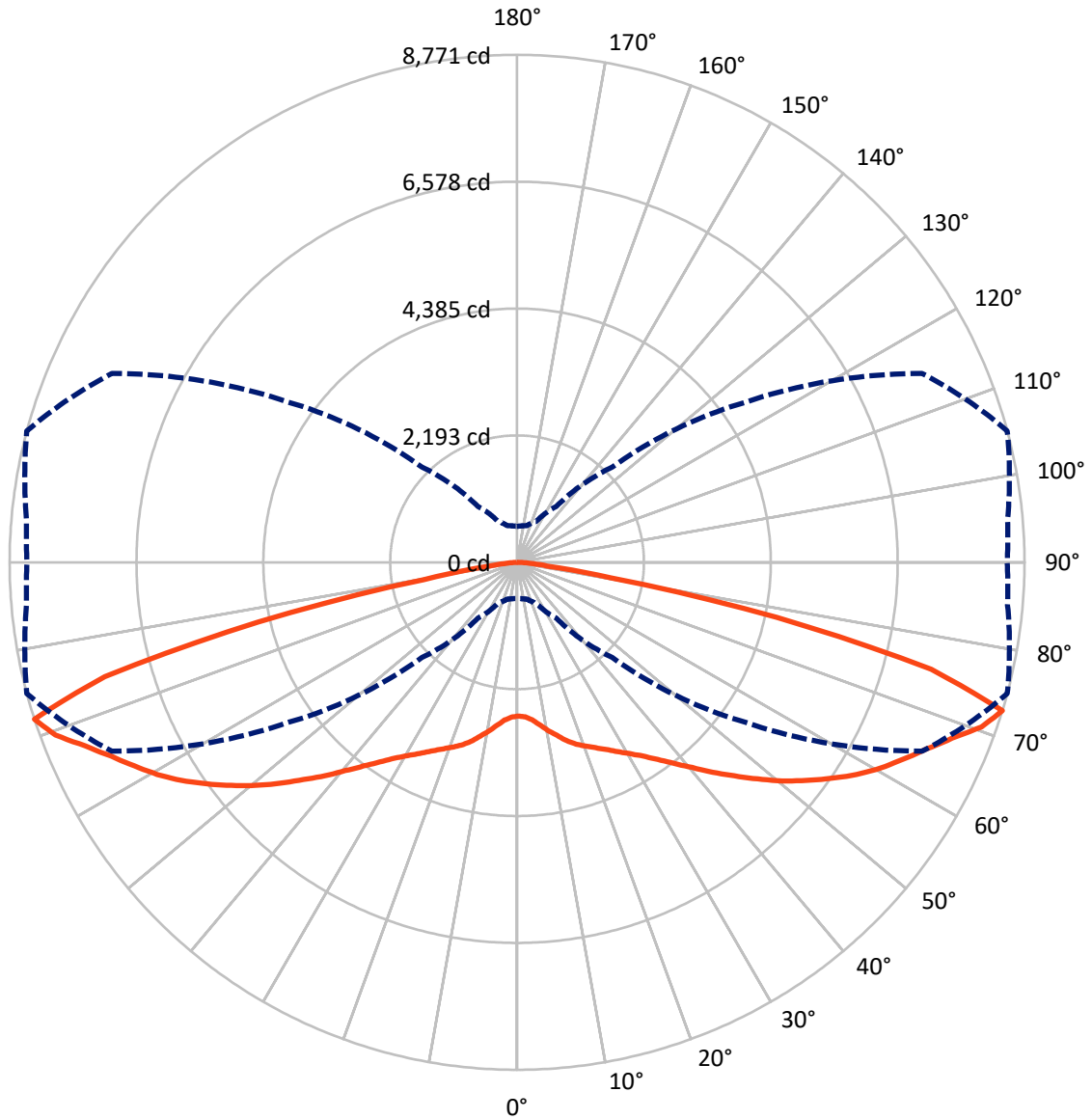
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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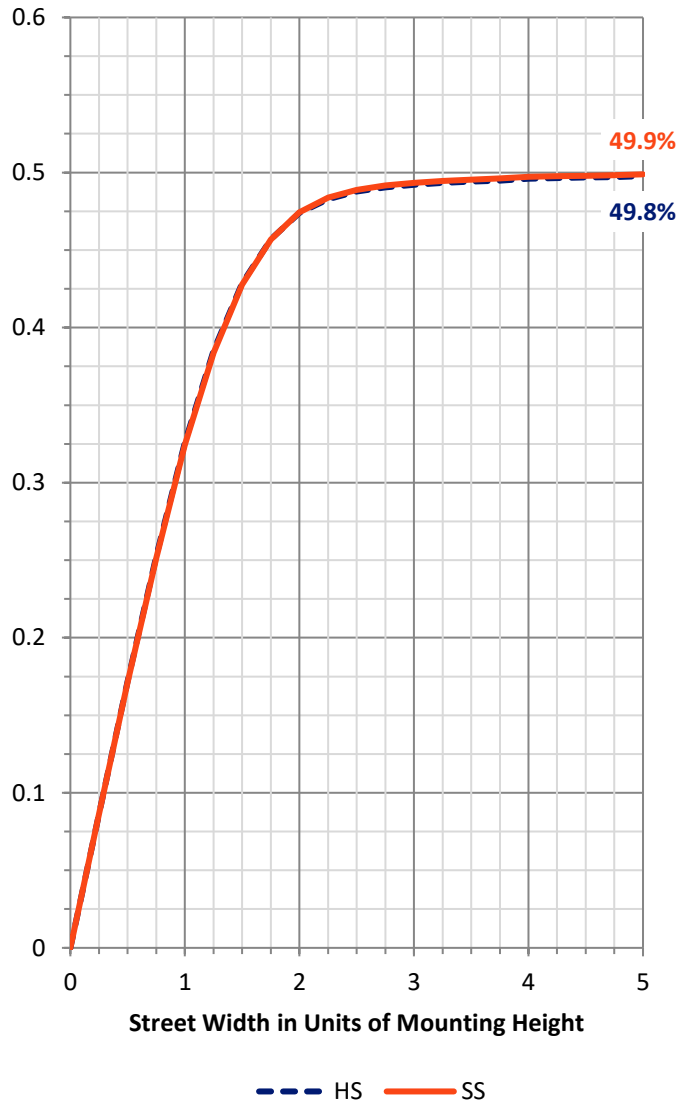
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12401.0	0.0	12401.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12401.0	0.0	12401.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24801.9	0.0	24801.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.3	1.0
10°-20°	858.4	3.5
20°-30°	1658.6	6.7
30°-40°	2800.6	11.3
40°-50°	4441.5	17.9
50°-60°	5946.6	24.0
60°-70°	5659.3	22.8
70°-80°	2953.1	11.9
80°-90°	223.5	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°	24801.9	100.0
0°-180°	24801.9	100.0

Coefficient of Utilization

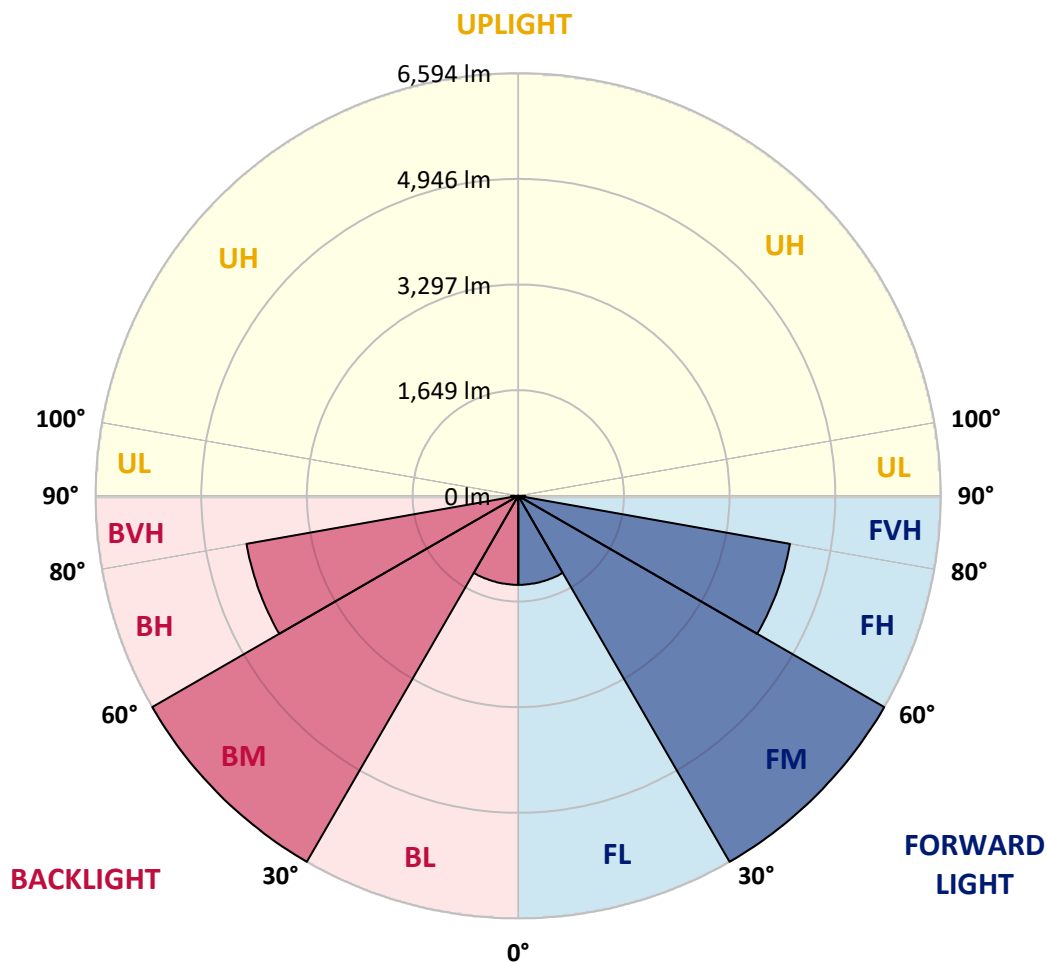


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1388.6	5.6			
FM (30°-60°)	6594.4	26.6			
FH (60°-80°)	4306.2	17.4			G2/5000
FVH (80°-90°)	111.8	0.5			G2/225
BL (0°-30°)	1388.6	5.6	B3/2500		
BM (30°-60°)	6594.4	26.6	B4/8500		
BH (60°-80°)	4306.2	17.4	B4/5000		G4/5000
BVH (80°-90°)	111.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2656.7	2656.7	2656.7	2656.7	2656.7	2656.7	2656.7	2656.7	2656.7	2656.7	2656.7
2.5°	2656.7	2654.2	2656.7	2659.3	2658.0	2658.0	2664.3	2668.2	2675.8	2674.4	2673.2
5°	2639.0	2637.7	2647.9	2659.3	2668.2	2683.3	2702.3	2716.2	2734.0	2737.8	2737.8
7.5°	2630.1	2626.4	2644.1	2664.3	2692.2	2730.2	2766.9	2804.9	2835.3	2845.4	2848.0
10°	2636.5	2637.7	2661.8	2699.7	2744.1	2797.3	2849.2	2913.8	2956.8	2967.0	2977.1
12.5°	2665.6	2663.1	2703.5	2764.3	2825.1	2892.2	2953.0	3024.0	3070.8	3094.9	3105.0
15°	2718.8	2713.7	2770.7	2860.6	2949.2	3027.7	3077.2	3144.3	3198.7	3229.1	3240.5
17.5°	2782.1	2784.6	2859.3	2975.9	3092.3	3181.0	3227.8	3262.1	3303.8	3330.4	3343.0
20°	2893.6	2898.6	2982.1	3120.2	3253.1	3354.5	3392.4	3379.8	3391.2	3411.4	3426.7
22.5°	3042.9	3045.5	3139.2	3288.6	3427.9	3539.3	3564.6	3512.8	3481.1	3495.0	3505.2
25°	3216.4	3233.0	3326.6	3479.9	3623.0	3729.3	3740.7	3662.2	3583.7	3587.5	3593.8
27.5°	3427.9	3443.1	3538.1	3690.0	3835.7	3928.1	3926.9	3821.7	3706.5	3677.4	3686.2
30°	3657.1	3673.6	3771.1	3928.1	4063.6	4144.7	4127.0	4001.6	3837.0	3782.5	3788.8
32.5°	3929.3	3939.5	4038.3	4195.3	4320.7	4385.3	4348.6	4194.0	3988.9	3926.9	3942.0
35°	4258.7	4273.8	4347.2	4495.4	4605.6	4658.7	4596.7	4414.4	4183.9	4114.2	4124.4
37.5°	4634.7	4624.6	4708.1	4839.8	4931.1	4964.0	4879.1	4662.6	4406.8	4324.5	4339.6
40°	5027.3	5022.2	5113.4	5240.0	5289.4	5309.7	5184.2	4947.5	4663.9	4575.2	4604.3
42.5°	5383.1	5379.3	5502.1	5642.7	5702.2	5679.4	5521.2	5250.2	4961.4	4860.1	4885.5
45°	5668.0	5662.9	5813.7	6011.2	6127.7	6089.7	5876.9	5584.4	5262.8	5157.7	5181.8
47.5°	5887.1	5889.6	6051.7	6296.2	6500.0	6514.0	6240.4	5925.1	5594.6	5475.5	5511.0
50°	6045.3	6053.0	6226.5	6497.5	6776.1	6898.9	6611.5	6274.6	5937.7	5803.5	5844.0
52.5°	6084.6	6098.5	6307.5	6625.4	6953.3	7187.6	6988.8	6610.1	6263.2	6135.3	6168.2
55°	5875.7	5903.6	6168.2	6615.2	7062.2	7377.5	7320.6	6950.8	6591.2	6459.4	6496.2
57.5°	5395.8	5435.1	5744.0	6327.7	7038.2	7508.0	7577.6	7277.5	6919.2	6792.5	6821.7
60°	4723.4	4770.2	5066.6	5703.5	6698.8	7556.1	7758.7	7595.4	7220.5	7097.7	7124.3
62.5°	3709.1	3769.8	4124.4	4871.5	5982.1	7331.9	7913.2	7882.9	7491.5	7338.3	7356.0
65°	2379.4	2444.0	2817.5	3700.1	5026.0	6645.6	7961.3	8162.7	7777.7	7563.7	7590.3
67.5°	1434.7	1463.9	1648.7	2242.6	3673.6	5611.1	7553.5	8473.0	8112.1	7846.1	7866.4
70°	918.1	934.5	1044.7	1316.9	2076.8	4094.0	6543.1	8531.2	8517.2	8136.0	8133.6
72.5°	623.0	628.1	657.2	780.0	1175.2	2326.2	4825.9	7723.3	8770.5	8509.7	8469.2
75°	455.9	483.7	530.5	552.1	667.4	1162.5	2765.7	5426.1	7391.5	7505.5	7229.4
77.5°	339.4	340.6	405.2	430.5	476.1	619.2	1170.0	3029.0	4589.1	4818.3	4297.8
80°	287.4	272.2	271.0	347.0	358.3	386.2	523.0	1046.0	1643.7	996.6	753.5
82.5°	239.3	222.8	201.3	271.0	244.4	236.8	226.6	425.5	523.0	257.1	219.0
85°	167.2	159.6	152.0	177.3	139.3	119.0	108.9	198.8	220.4	108.9	96.2
87.5°	72.2	74.7	76.0	78.5	58.2	41.8	41.8	55.8	55.8	43.0	31.7
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)