

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: P968193

Luminaire Tested: **NAV-SB5B-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968193
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-SB5B-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26752.5 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

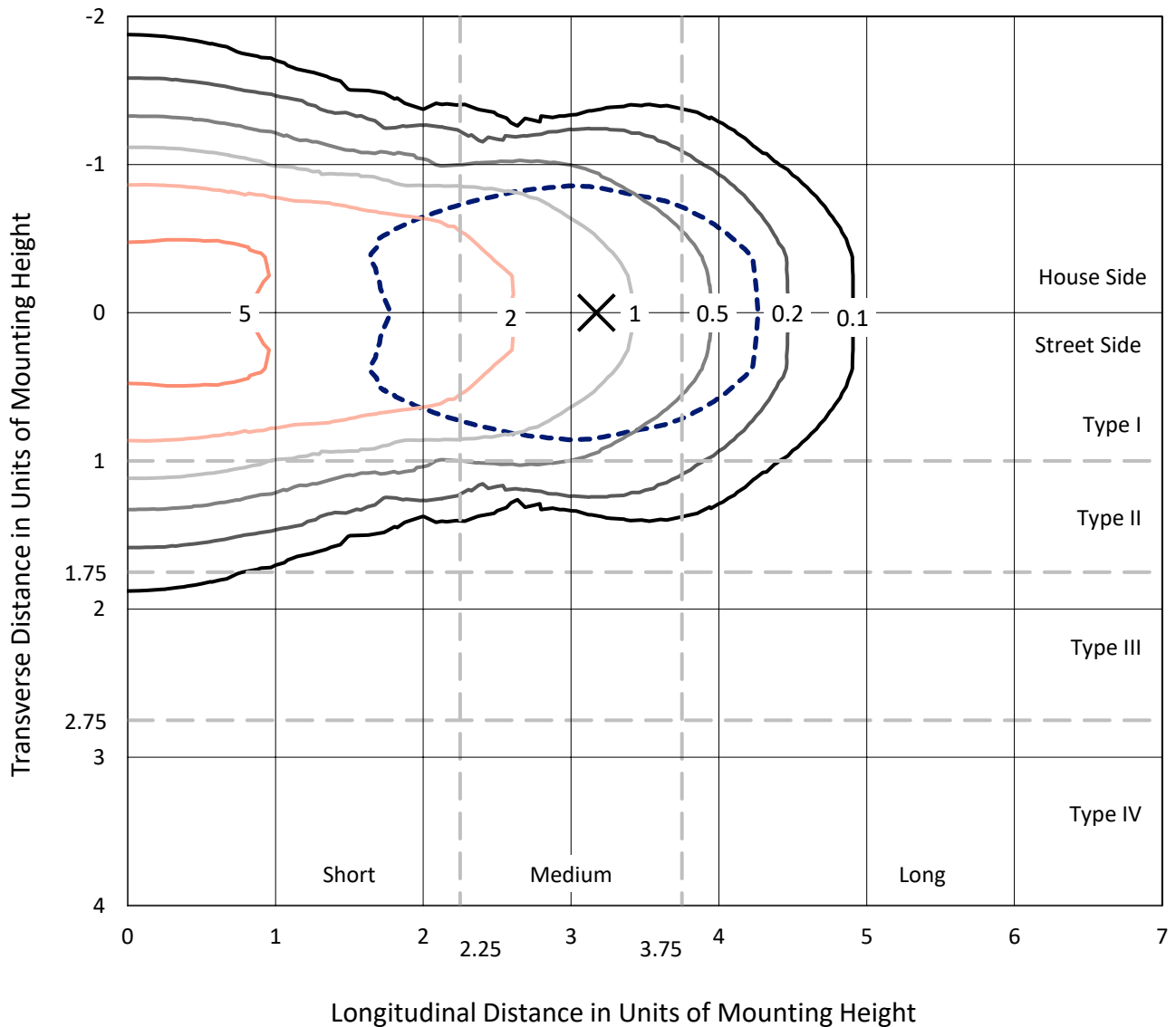
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

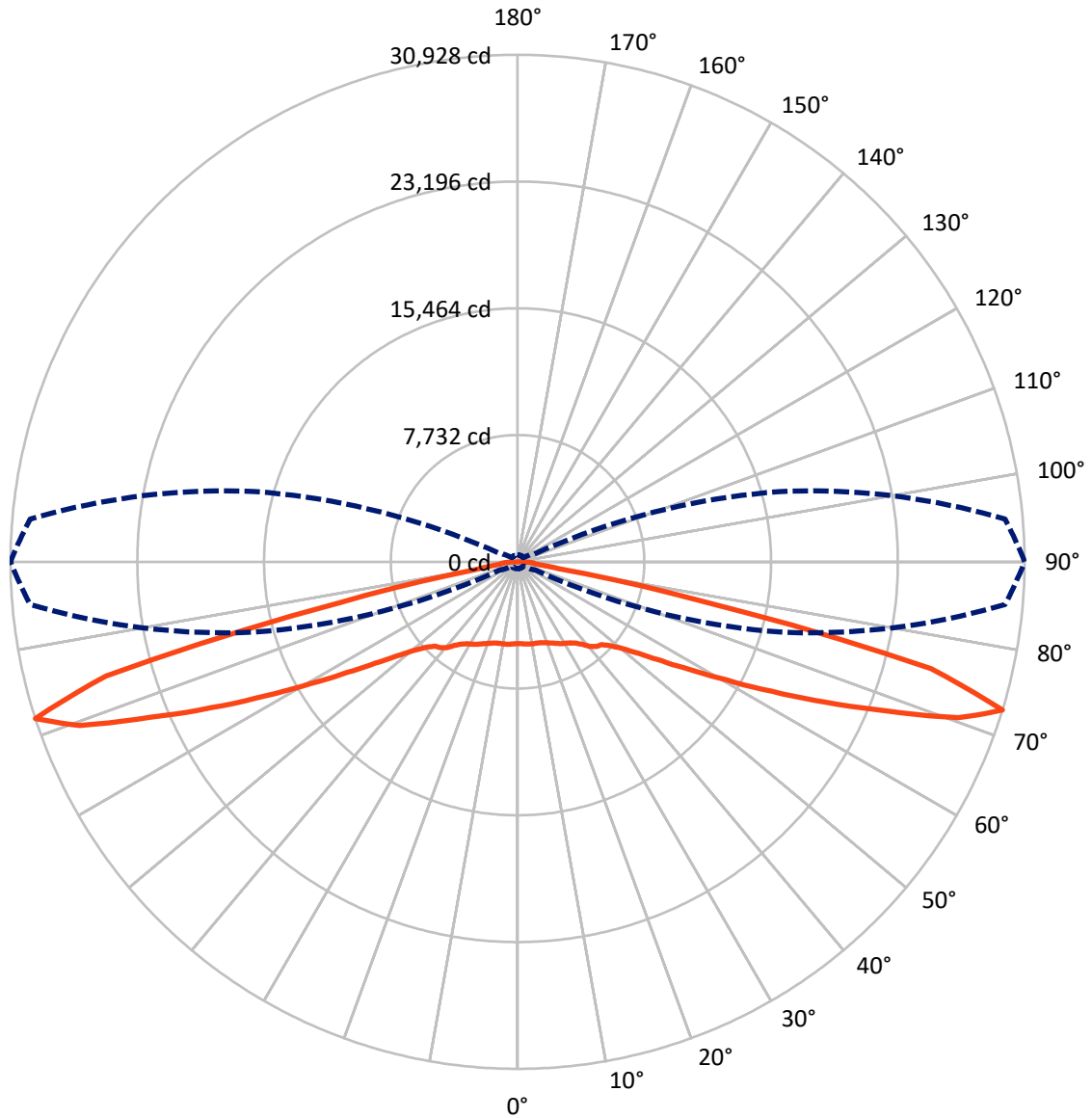
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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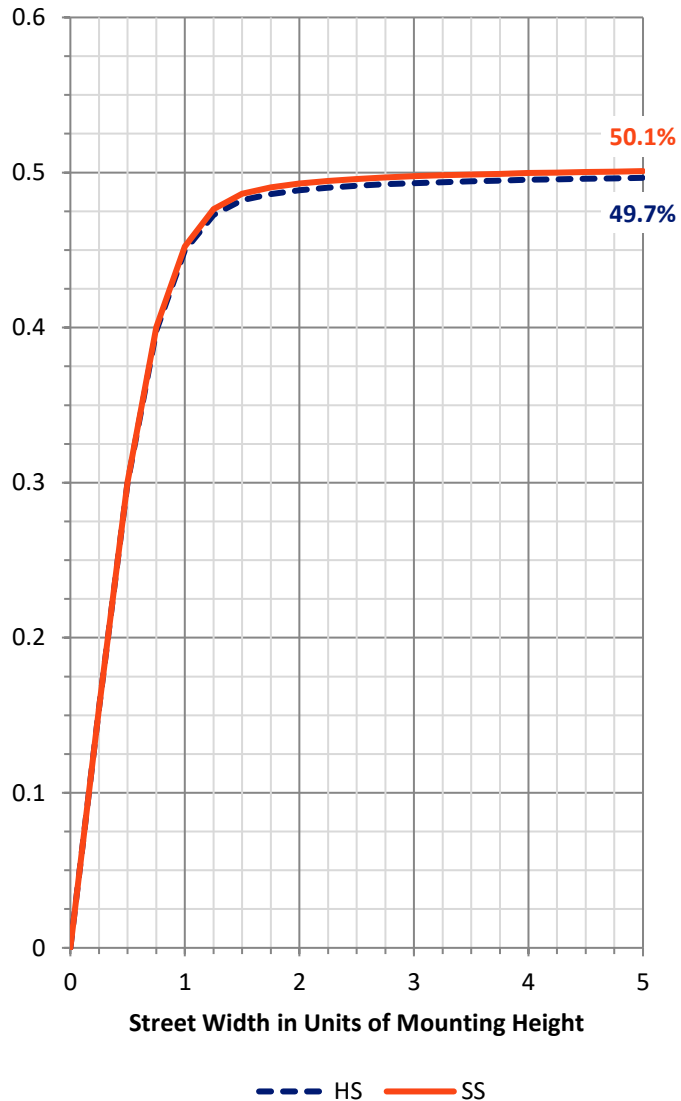
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13376.3	0.0	13376.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13376.3	0.0	13376.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	26752.5	0.0	26752.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.7	1.8
10°-20°	1482.1	5.5
20°-30°	2471.2	9.2
30°-40°	3398.7	12.7
40°-50°	4150.7	15.5
50°-60°	4800.7	17.9
60°-70°	5724.1	21.4
70°-80°	3995.0	14.9
80°-90°	245.4	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°	26752.5	100.0
0°-180°	26752.5	100.0

Coefficient of Utilization

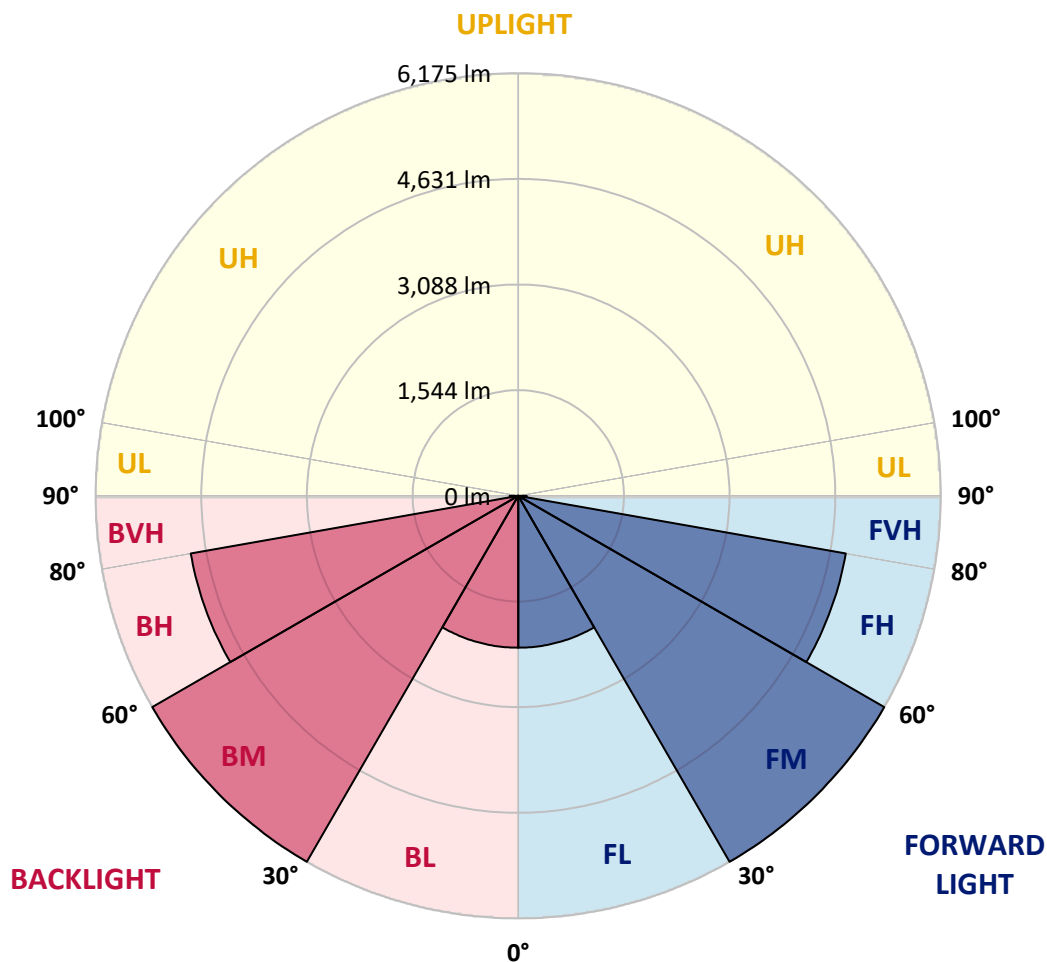


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2219.0	8.3			
FM (30°-60°)	6175.0	23.1			
FH (60°-80°)	4859.5	18.2			G2/5000
FVH (80°-90°)	122.7	0.5			G2/225
BL (0°-30°)	2219.0	8.3	B3/2500		
BM (30°-60°)	6175.0	23.1	B4/8500		
BH (60°-80°)	4859.5	18.2	B4/5000		G4/5000
BVH (80°-90°)	122.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4999.0	4999.0	4999.0	4999.0	4999.0	4999.0	4999.0	4999.0	4999.0	4999.0	4999.0
2.5°	5003.2	5009.0	5009.0	5004.7	5014.6	5006.1	5006.1	5001.8	5006.1	5001.8	5001.8
5°	5028.9	5035.9	5038.8	5037.4	5050.2	5043.1	5043.1	5037.4	5038.8	5034.5	5034.5
7.5°	5077.2	5087.2	5092.8	5099.9	5118.4	5109.9	5104.2	5087.2	5080.0	5068.6	5068.6
10°	5092.8	5104.2	5122.6	5159.6	5202.3	5203.7	5186.7	5144.0	5111.3	5085.7	5081.4
12.5°	5044.4	5060.1	5098.6	5173.9	5269.1	5307.6	5280.5	5209.5	5145.4	5099.9	5092.8
15°	4983.3	5000.4	5058.7	5172.5	5313.2	5402.8	5399.9	5306.1	5203.7	5132.6	5121.3
17.5°	4888.1	4905.1	4989.1	5148.3	5347.3	5495.2	5535.0	5438.3	5294.7	5199.4	5183.8
20°	4716.0	4731.7	4848.2	5071.5	5358.7	5593.3	5697.1	5611.8	5432.6	5303.2	5279.1
22.5°	4492.9	4517.0	4653.5	4939.3	5331.6	5695.6	5882.0	5823.6	5593.3	5414.2	5381.5
25°	4254.0	4279.6	4438.8	4777.2	5262.0	5769.6	6100.9	6063.9	5775.3	5552.0	5506.6
27.5°	4047.8	4074.8	4248.3	4616.5	5154.0	5798.0	6317.0	6335.4	5995.6	5704.2	5655.8
30°	3885.8	3911.3	4096.1	4487.1	5014.6	5769.6	6506.1	6634.0	6220.3	5836.5	5766.8
32.5°	3708.0	3740.7	3935.5	4329.3	4849.7	5701.4	6671.0	6956.8	6480.5	5978.6	5890.5
35°	3483.4	3513.2	3718.0	4113.2	4633.6	5591.9	6808.9	7315.1	6852.9	6194.7	6096.6
37.5°	3210.4	3238.8	3442.2	3843.0	4418.9	5438.3	6914.1	7718.9	7296.6	6506.1	6375.3
40°	2936.0	2963.0	3153.5	3541.7	4161.6	5242.2	6951.1	8114.1	7805.6	6934.0	6794.7
42.5°	2684.4	2708.5	2883.3	3244.5	3873.0	4991.9	6902.8	8458.2	8262.0	7232.6	7053.4
45°	2452.6	2473.9	2628.9	2965.8	3572.9	4687.6	6757.7	8827.8	8805.1	7445.9	7204.2
47.5°	2188.2	2209.5	2370.1	2695.7	3272.9	4330.7	6511.7	9191.8	9560.1	7929.3	7650.6
50°	1865.4	1883.8	2048.8	2384.4	2961.5	3951.2	6170.5	9477.6	10512.7	8661.5	8311.7
52.5°	1483.0	1502.9	1663.5	1999.1	2591.9	3543.1	5721.2	9663.9	11613.1	9730.6	9299.9
55°	1103.3	1117.6	1256.9	1558.3	2134.0	3078.2	5158.2	9716.5	12861.5	11192.3	10653.4
57.5°	800.4	809.0	898.6	1123.2	1618.0	2496.7	4474.3	9580.0	14347.2	13066.2	12387.9
60°	648.3	651.2	678.1	777.7	1124.6	1839.8	3648.3	9110.8	15959.6	15481.8	14627.3
62.5°	588.7	588.7	595.7	622.8	760.7	1214.2	2648.8	8138.3	17688.4	18534.4	17389.8
65°	547.3	547.3	550.2	563.0	600.0	773.5	1672.0	6554.5	19145.8	22110.2	20662.8
67.5°	510.4	511.9	510.4	514.7	536.0	571.5	969.6	4526.9	19930.5	25815.3	24252.7
70°	472.0	474.9	467.8	467.8	484.8	486.3	607.1	2482.4	19279.3	28920.5	28509.6
72.5°	426.5	430.8	419.4	416.6	429.4	423.7	456.4	1191.5	16552.4	29847.5	30928.0
75°	386.7	392.4	366.8	359.7	359.7	355.5	371.0	611.4	10743.0	24348.1	26042.8
77.5°	351.2	362.5	321.3	298.6	292.8	280.1	302.9	373.9	4699.0	11431.1	11193.7
80°	290.1	305.7	264.4	237.4	227.4	213.3	238.8	261.6	1397.6	2654.4	2542.1
82.5°	216.1	223.2	187.7	169.2	160.6	150.7	179.2	181.9	455.0	939.8	1062.1
85°	137.9	140.7	115.2	99.5	95.2	91.0	113.8	99.5	173.4	691.0	1003.8
87.5°	48.4	55.5	44.1	39.8	42.6	35.6	52.6	29.8	48.4	487.7	604.2
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)