

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: P969758

Luminaire Tested: **NAV-SB6A-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-727-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27083.6 lumens
Efficiency: N/A
Efficacy: 158.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

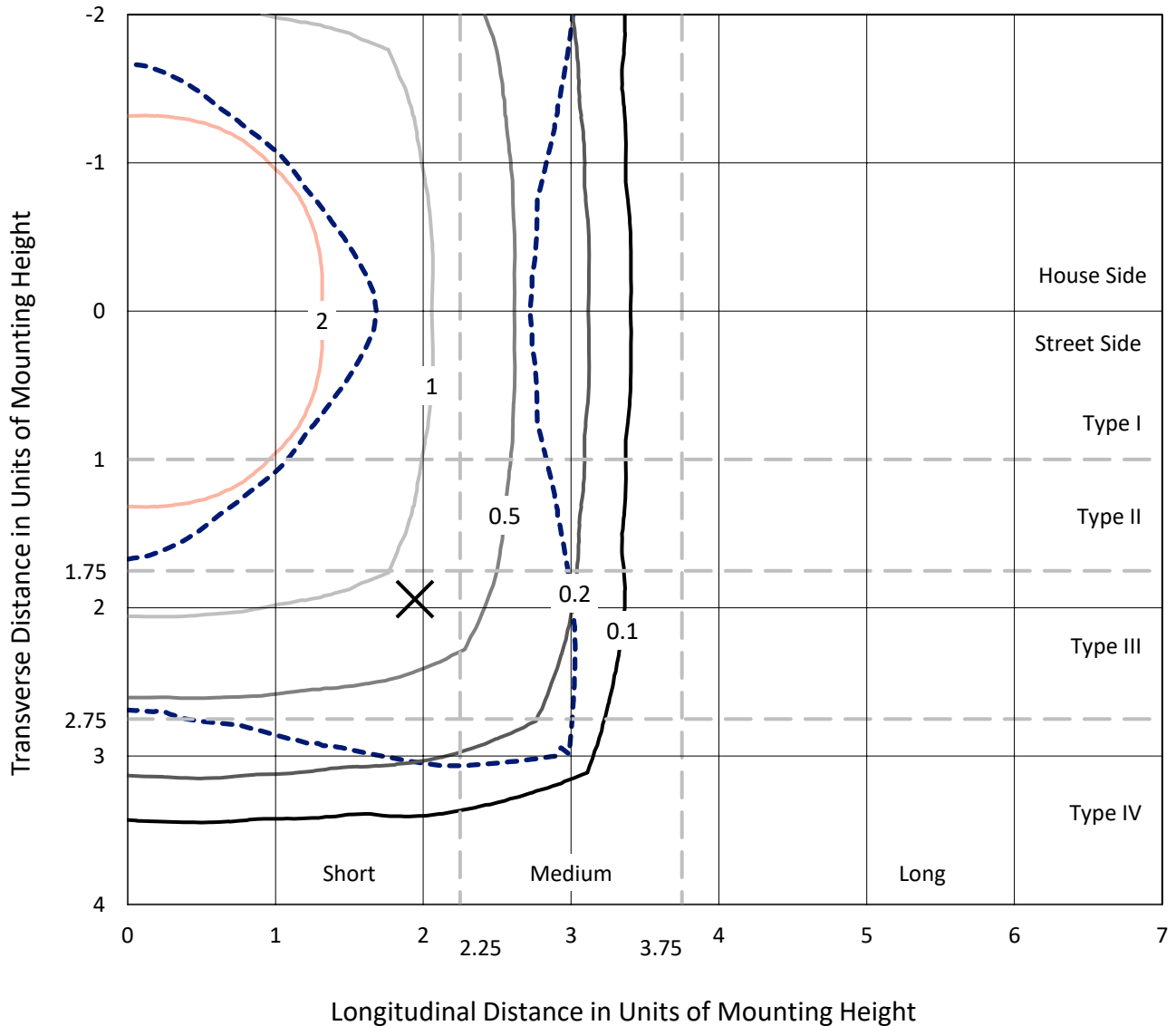
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

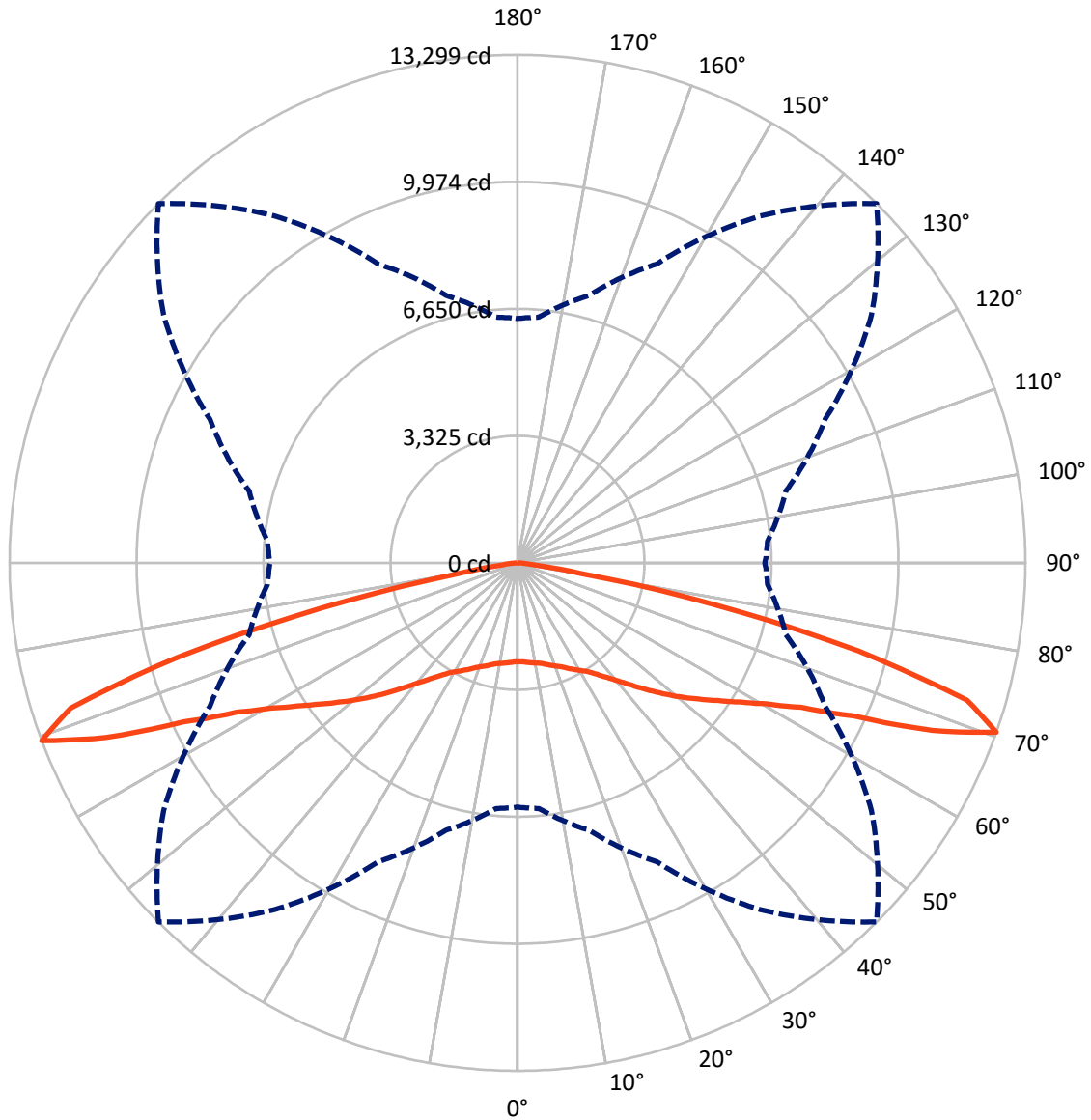
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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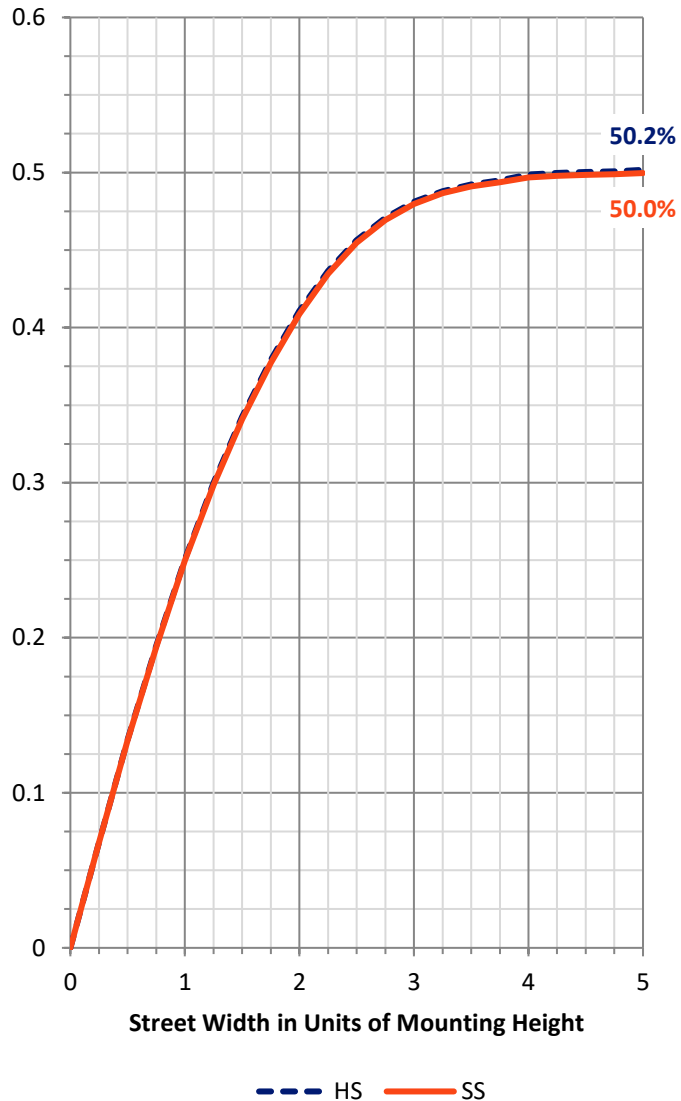
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13541.8	0.0	13541.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13541.8	0.0	13541.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	27083.6	0.0	27083.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.0	0.9
10°-20°	781.5	2.9
20°-30°	1396.7	5.2
30°-40°	2264.1	8.4
40°-50°	3687.8	13.6
50°-60°	5622.6	20.8
60°-70°	8364.6	30.9
70°-80°	4559.0	16.8
80°-90°	155.2	0.6
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°	27083.6	100.0
0°-180°	27083.6	100.0

Coefficient of Utilization



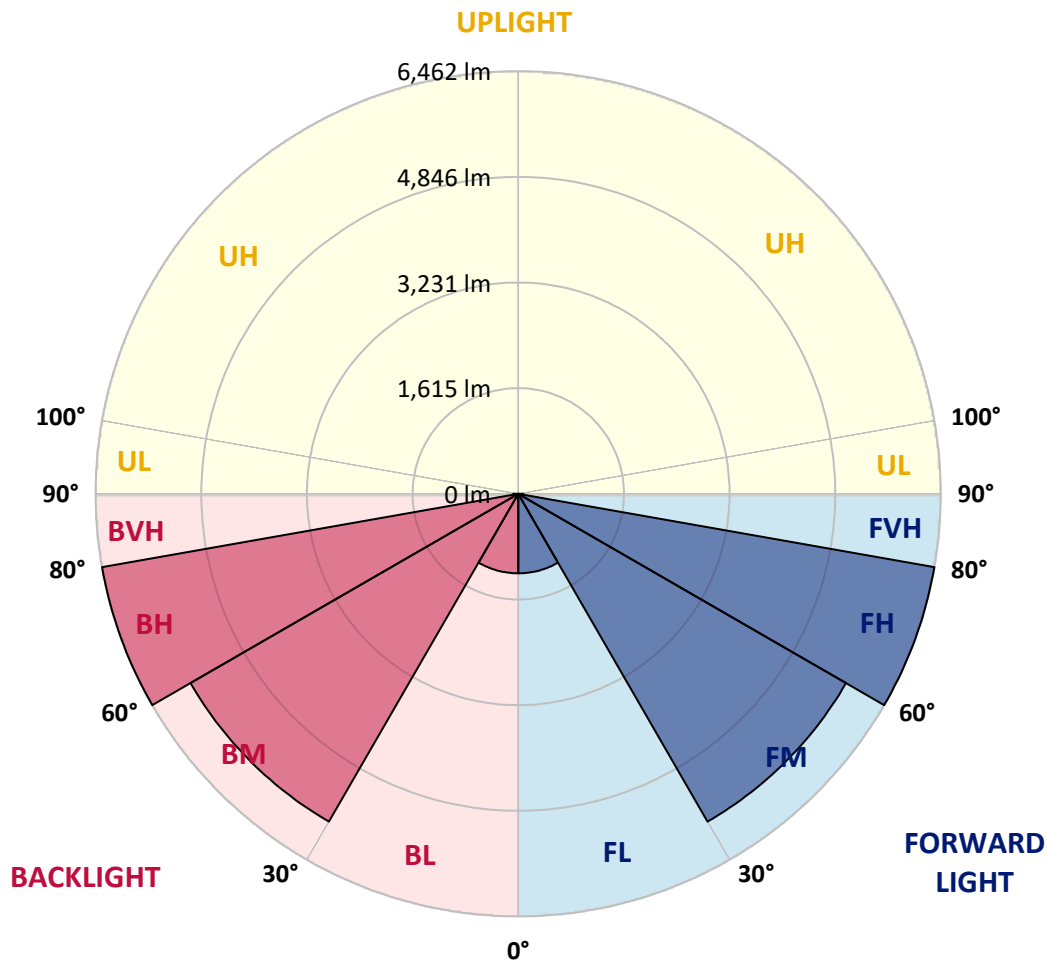
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1215.1	4.5			
FM (30°-60°)	5787.2	21.4			
FH (60°-80°)	6461.8	23.9			G3/7500
FVH (80°-90°)	77.6	0.3			G1/100
BL (0°-30°)	1215.1	4.5	B3/2500		
BM (30°-60°)	5787.2	21.4	B4/8500		
BH (60°-80°)	6461.8	23.9	B5		G3/7500
BVH (80°-90°)	77.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2594.3	2594.3	2594.3	2594.3	2594.3	2594.3	2594.3	2594.3	2594.3	2594.3	2594.3
2.5°	2606.6	2609.2	2603.8	2601.1	2598.4	2594.3	2595.7	2602.5	2607.9	2606.6	2607.9
5°	2628.3	2631.1	2627.0	2625.6	2620.2	2618.8	2618.8	2625.6	2629.6	2627.0	2628.3
7.5°	2652.8	2656.9	2650.0	2648.7	2646.0	2643.3	2641.9	2648.7	2652.8	2652.8	2652.8
10°	2675.9	2680.0	2674.5	2670.4	2667.8	2667.8	2665.0	2670.4	2677.3	2675.9	2675.9
12.5°	2700.4	2703.1	2697.7	2694.9	2694.9	2699.0	2694.9	2697.7	2703.1	2700.4	2699.0
15°	2730.3	2731.6	2730.3	2734.4	2741.2	2754.8	2742.5	2739.8	2742.5	2735.7	2735.7
17.5°	2771.1	2773.9	2779.3	2788.7	2798.2	2822.7	2801.0	2794.3	2794.3	2780.6	2780.6
20°	2821.4	2825.5	2833.6	2849.9	2862.2	2885.3	2863.5	2854.0	2849.9	2832.3	2832.3
22.5°	2874.4	2881.3	2893.5	2915.2	2936.9	2958.8	2936.9	2920.6	2908.4	2885.3	2883.9
25°	2935.6	2943.8	2962.8	2998.1	3028.1	3059.3	3033.5	3000.9	2976.4	2943.8	2942.4
27.5°	3022.6	3032.2	3055.2	3098.8	3136.8	3164.1	3139.6	3097.4	3063.4	3024.0	3022.6
30°	3145.0	3154.5	3181.7	3227.9	3253.8	3271.5	3255.2	3222.5	3181.7	3136.8	3136.8
32.5°	3302.8	3315.0	3344.9	3388.4	3393.9	3396.5	3391.1	3374.8	3344.9	3290.5	3291.9
35°	3502.6	3516.2	3550.2	3585.6	3580.1	3585.6	3577.4	3571.9	3550.2	3487.7	3487.7
37.5°	3747.4	3763.7	3799.1	3826.2	3812.6	3805.8	3807.2	3808.6	3796.3	3727.0	3727.0
40°	4031.5	4053.3	4079.1	4107.7	4084.5	4064.1	4077.8	4088.6	4077.8	4007.0	4007.0
42.5°	4323.9	4355.1	4382.4	4423.2	4404.1	4378.3	4397.4	4409.5	4386.4	4310.3	4315.8
45°	4648.9	4678.7	4714.1	4775.3	4761.7	4734.5	4761.7	4764.4	4724.9	4635.3	4644.8
47.5°	4984.7	5015.9	5069.0	5150.6	5145.2	5115.3	5150.6	5131.6	5081.2	4973.8	4967.0
50°	5302.8	5346.4	5428.0	5542.2	5553.0	5516.3	5563.9	5527.2	5443.0	5308.3	5305.6
52.5°	5602.0	5648.3	5777.4	5932.4	5971.9	5924.3	5988.2	5924.3	5797.8	5625.1	5608.8
55°	5916.1	5967.8	6121.4	6324.0	6402.9	6367.5	6427.4	6330.8	6151.3	5941.9	5913.3
57.5°	6285.9	6317.2	6500.8	6741.4	6874.7	6882.9	6910.0	6746.9	6529.4	6291.3	6258.8
60°	6687.1	6730.6	6930.4	7218.7	7429.4	7497.5	7468.9	7226.9	6974.0	6700.6	6657.2
62.5°	7201.0	7248.6	7487.9	7833.3	8166.4	8335.0	8223.6	7872.7	7560.0	7232.3	7175.2
65°	7626.6	7679.6	8112.1	8728.0	9334.4	9672.9	9392.9	8747.0	8184.1	7721.8	7645.7
67.5°	7318.0	7383.2	8061.7	9193.0	10700.9	11711.1	10752.6	9331.7	8229.0	7602.1	7508.3
70°	6396.1	6457.3	7248.6	8631.4	11085.7	13299.3	11316.8	8885.7	7274.4	6572.8	6479.0
72.5°	4246.4	4443.6	5244.4	6903.3	9898.7	12306.8	9996.6	6763.2	4865.1	4236.8	4099.5
75°	1408.7	1566.4	2113.0	3578.8	6629.9	9203.9	6311.7	3166.7	1673.8	1204.7	1139.4
77.5°	354.9	409.3	564.3	1023.9	2644.6	5240.3	2380.9	836.2	455.5	318.2	284.1
80°	172.7	190.3	271.9	341.3	662.2	1665.6	621.4	320.9	214.8	165.8	152.3
82.5°	95.2	96.6	153.6	193.1	246.1	431.0	255.6	187.7	123.7	100.7	100.7
85°	58.4	57.1	81.6	103.3	103.3	153.6	122.4	103.3	70.7	62.5	65.3
87.5°	23.2	23.2	29.9	32.6	28.6	39.5	31.3	34.0	27.2	25.8	27.2
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)