

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: P967651

Luminaire Tested: **NAV-SB5A-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-727-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22574.6 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

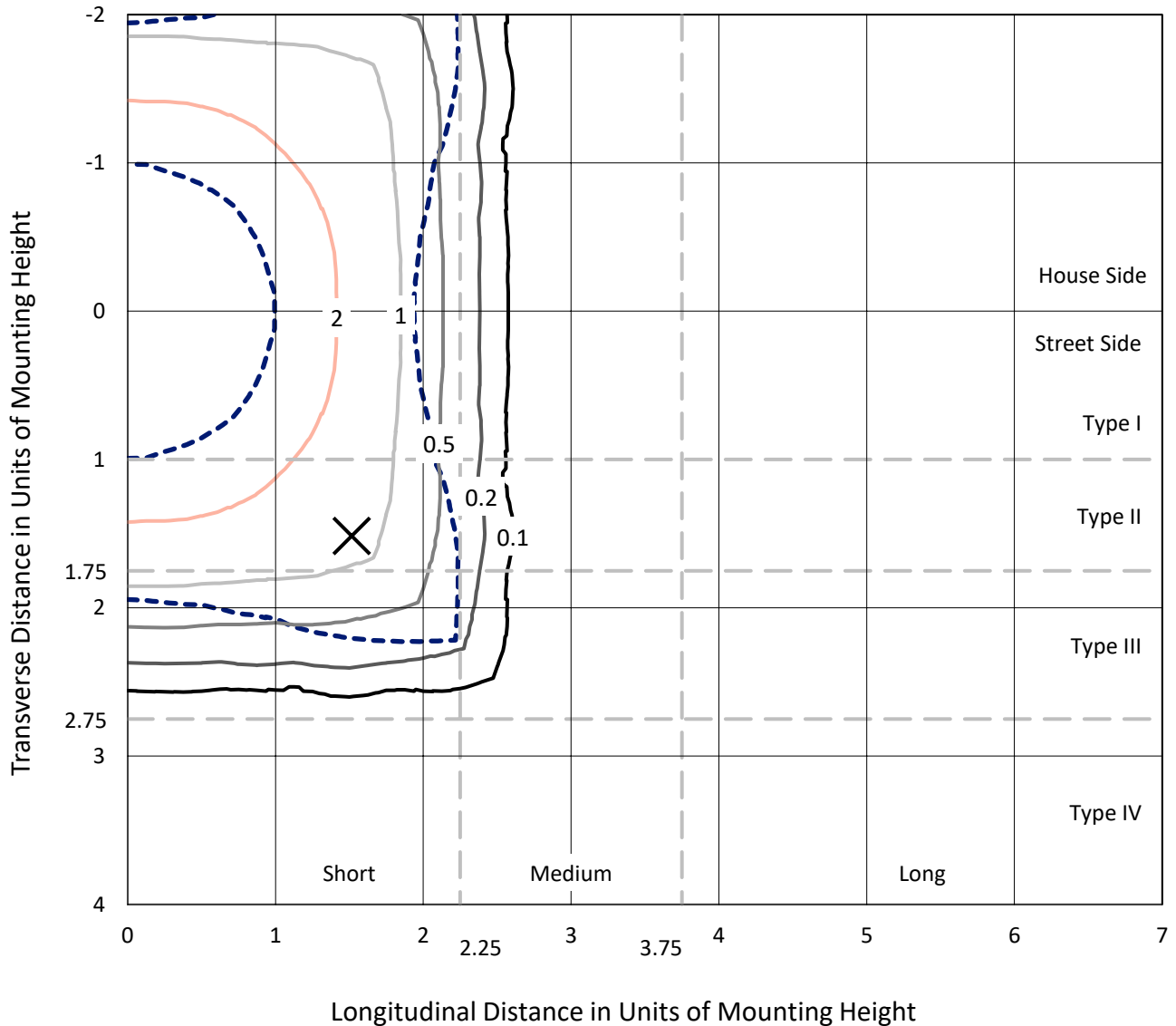
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

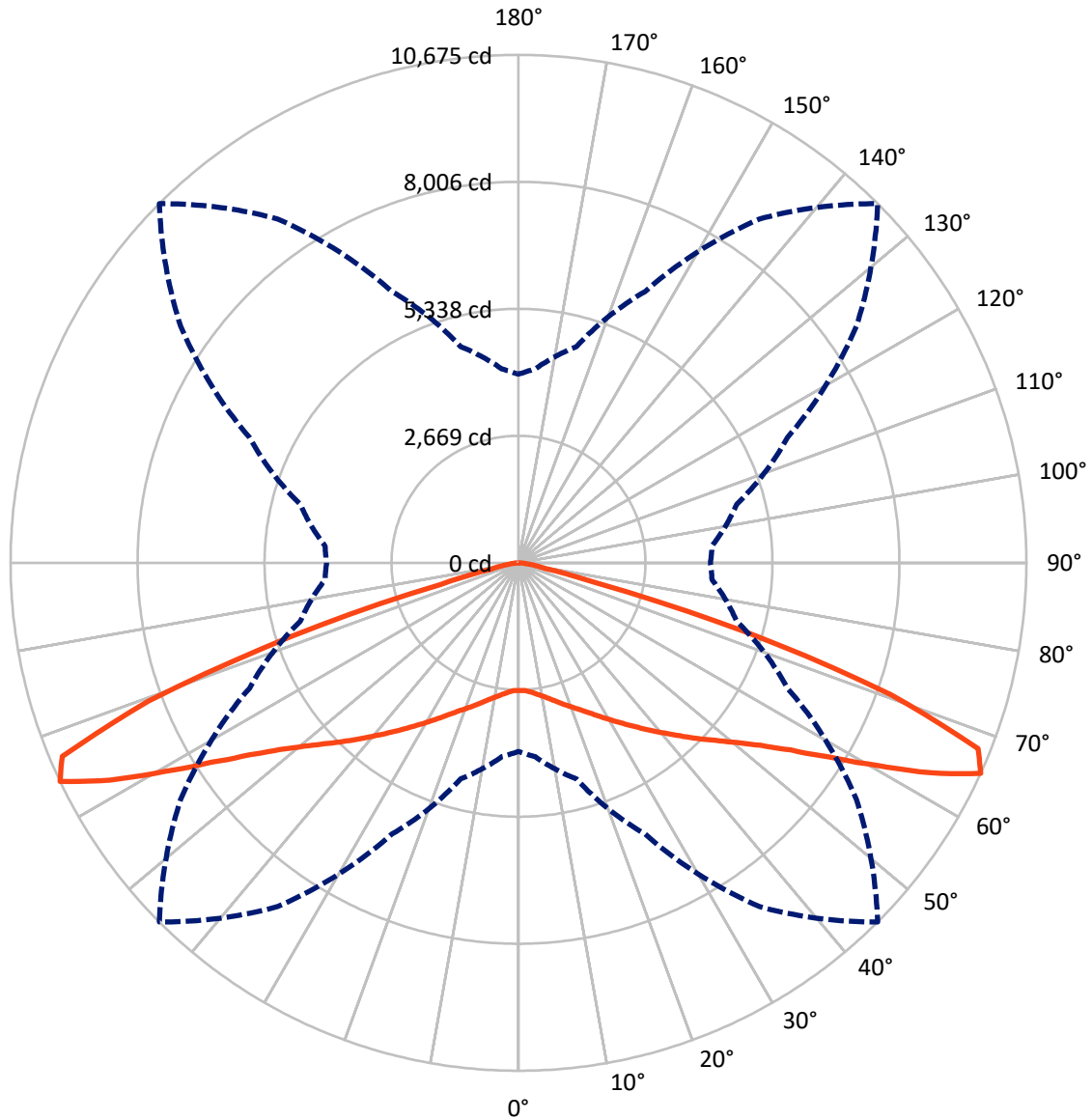
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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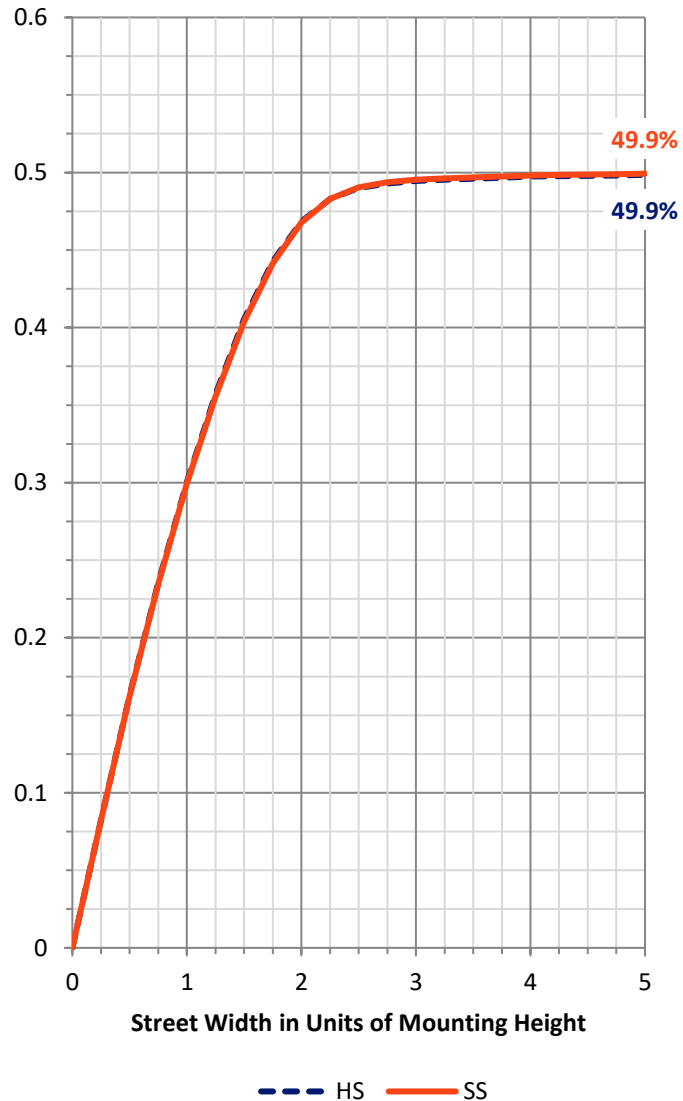
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11287.3	0.0	11287.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11287.3	0.0	11287.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	22574.6	0.0	22574.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.1	1.2
10°-20°	865.2	3.8
20°-30°	1633.6	7.2
30°-40°	2674.9	11.8
40°-50°	4147.4	18.4
50°-60°	6126.6	27.1
60°-70°	5832.0	25.8
70°-80°	941.1	4.2
80°-90°	88.7	0.4
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°	22574.6	100.0
0°-180°	22574.6	100.0

Coefficient of Utilization



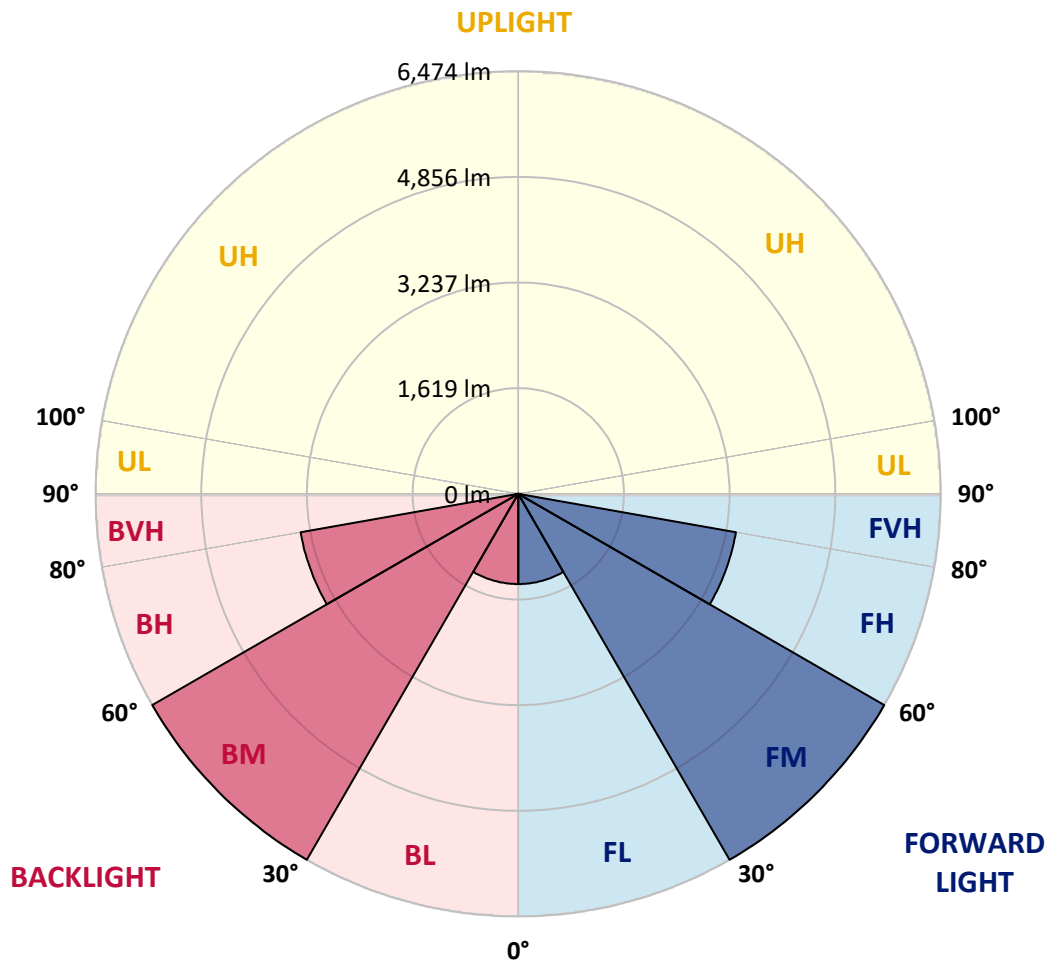
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1381.9	6.1			
FM (30°-60°)	6474.5	28.7			
FH (60°-80°)	3386.5	15.0			G2/5000
FVH (80°-90°)	44.4	0.2			G1/100
BL (0°-30°)	1381.9	6.1	B3/2500		
BM (30°-60°)	6474.5	28.7	B4/8500		
BH (60°-80°)	3386.5	15.0	B4/5000		G2/5000
BVH (80°-90°)	44.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6	2686.6
2.5°	2704.8	2695.6	2702.4	2696.8	2692.3	2687.8	2690.0	2697.9	2701.3	2702.4	2702.4
5°	2741.0	2733.1	2736.4	2736.4	2728.5	2726.3	2727.4	2733.1	2739.8	2739.8	2739.8
7.5°	2799.9	2791.9	2799.9	2795.4	2788.5	2786.3	2785.1	2789.6	2799.9	2799.9	2796.5
10°	2871.2	2862.2	2866.7	2864.5	2856.5	2853.1	2852.0	2858.7	2867.8	2866.7	2864.5
12.5°	2949.3	2939.2	2944.8	2938.1	2935.8	2932.4	2932.4	2931.3	2936.9	2932.4	2934.7
15°	3036.6	3029.8	3032.1	3027.5	3030.9	3028.7	3019.5	3015.0	3017.3	3010.5	3011.7
17.5°	3139.7	3123.8	3131.7	3129.4	3129.4	3134.0	3119.3	3113.6	3118.2	3111.4	3117.0
20°	3258.6	3242.7	3246.1	3241.6	3235.9	3240.4	3222.3	3226.9	3230.3	3225.8	3235.9
22.5°	3388.9	3368.5	3367.3	3369.6	3357.1	3358.2	3345.8	3357.1	3363.9	3351.4	3363.9
25°	3522.5	3501.0	3515.6	3510.0	3494.1	3497.6	3488.5	3499.9	3505.5	3489.6	3507.8
27.5°	3664.1	3649.3	3662.9	3666.3	3647.1	3660.7	3647.1	3657.3	3662.9	3639.2	3657.3
30°	3829.4	3814.7	3827.1	3836.3	3813.6	3835.1	3823.8	3830.5	3831.7	3803.4	3820.4
32.5°	4009.5	3986.8	4018.6	4023.1	3998.2	4024.3	4009.5	4018.6	4024.3	3985.7	4011.7
35°	4229.3	4201.0	4237.1	4231.5	4210.0	4231.5	4217.9	4231.5	4245.1	4198.7	4227.0
37.5°	4465.9	4436.5	4475.0	4464.8	4444.4	4459.2	4451.3	4460.3	4481.8	4432.0	4462.5
40°	4726.5	4690.2	4742.4	4724.2	4705.0	4702.7	4707.2	4712.8	4741.2	4685.7	4703.8
42.5°	5005.1	4966.6	5044.7	5016.5	4989.3	4971.1	4985.8	4997.2	5024.3	4962.0	4994.9
45°	5323.3	5279.2	5381.1	5347.1	5304.1	5266.8	5290.5	5307.6	5347.1	5272.4	5310.9
47.5°	5674.5	5624.7	5733.3	5723.2	5653.0	5571.4	5625.8	5674.5	5703.9	5613.3	5643.9
50°	6017.7	5979.1	6121.9	6134.3	6048.2	5933.8	6009.8	6083.4	6091.3	5972.4	5987.1
52.5°	6339.3	6300.9	6508.1	6586.2	6509.3	6373.3	6453.7	6528.5	6468.5	6314.4	6318.9
55°	6596.5	6564.7	6828.7	7030.3	7056.3	6944.2	6991.7	6989.5	6792.4	6555.7	6563.6
57.5°	6658.7	6654.2	6987.2	7414.2	7686.1	7699.6	7605.6	7365.5	6940.8	6622.5	6602.1
60°	6375.6	6403.9	6861.5	7614.7	8339.6	8640.9	8234.2	7549.0	6772.0	6330.3	6278.2
62.5°	5528.3	5603.2	6154.7	7370.1	8867.4	9723.7	8738.2	7270.3	6078.9	5502.3	5468.4
65°	3961.9	4092.2	4701.6	6289.5	8819.8	10675.1	8665.8	6238.6	4746.9	4082.0	4033.3
67.5°	1797.4	1930.0	2447.6	4306.2	7666.8	10416.8	7648.7	4351.5	2570.0	1936.8	1908.4
70°	651.3	673.9	840.4	1723.8	4899.8	8299.9	5109.3	1736.4	893.7	718.1	709.0
72.5°	394.1	397.6	432.7	617.3	1702.3	5039.1	1774.8	637.7	441.8	391.9	398.7
75°	250.3	248.0	308.1	377.2	603.7	1700.1	633.1	377.2	307.0	279.7	282.0
77.5°	180.1	185.7	220.9	282.0	380.6	576.5	373.8	269.6	220.9	181.2	184.6
80°	134.8	138.2	160.8	219.8	267.3	359.1	237.9	199.4	166.5	113.3	116.6
82.5°	97.4	97.4	105.4	159.7	163.1	193.7	129.1	140.4	109.9	80.5	80.5
85°	57.8	56.7	65.7	95.1	85.0	71.3	58.9	86.1	69.1	49.8	48.7
87.5°	20.4	21.5	20.4	27.2	22.7	19.3	18.1	23.8	19.3	17.0	15.9
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)