

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: P967868

Luminaire Tested: **NAV-SB5A-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967868
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-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21869.4 lumens
Efficiency: N/A
Efficacy: 154.3 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

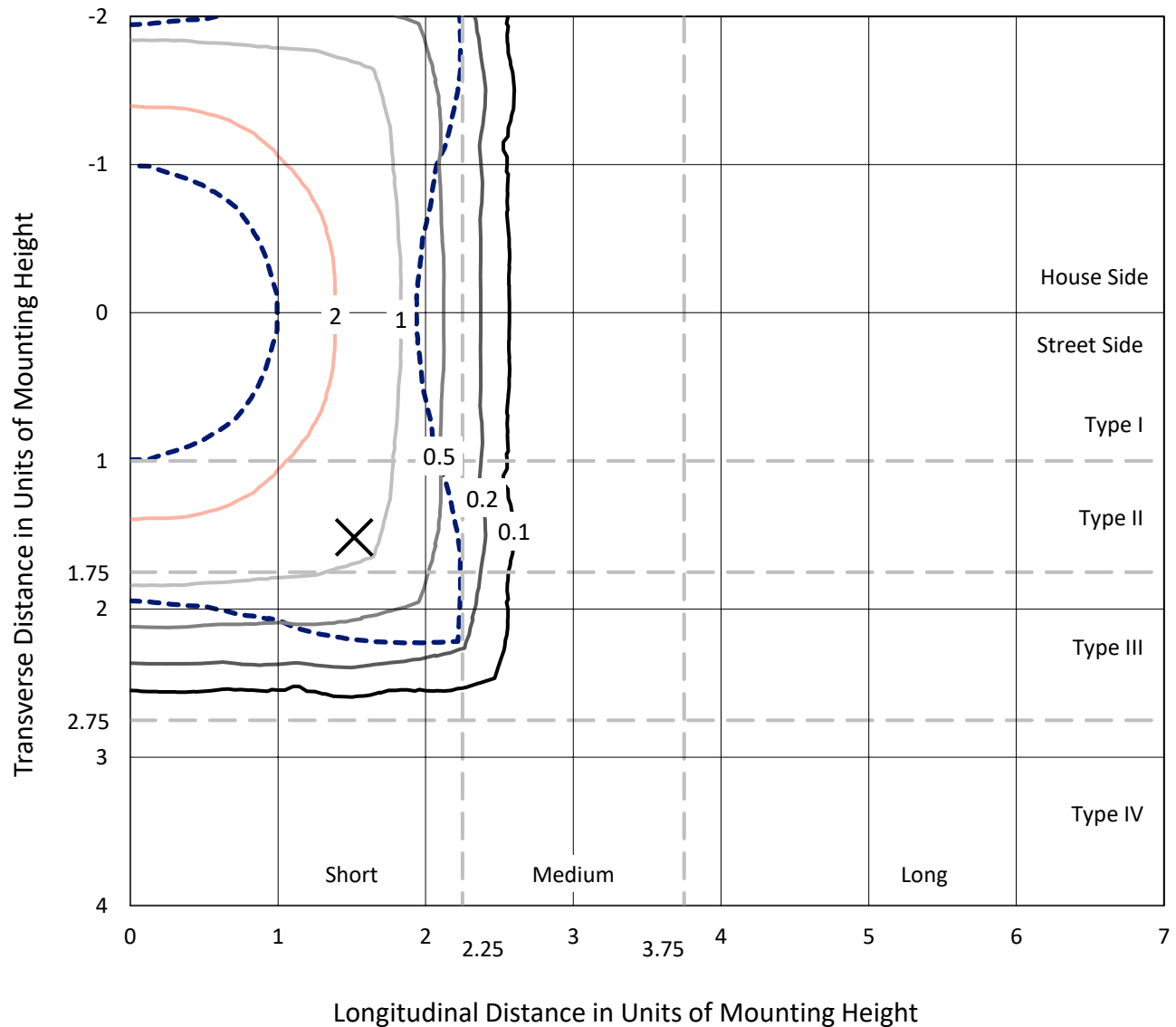


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Iso-Footcandle Lines of Horizontal Illumination

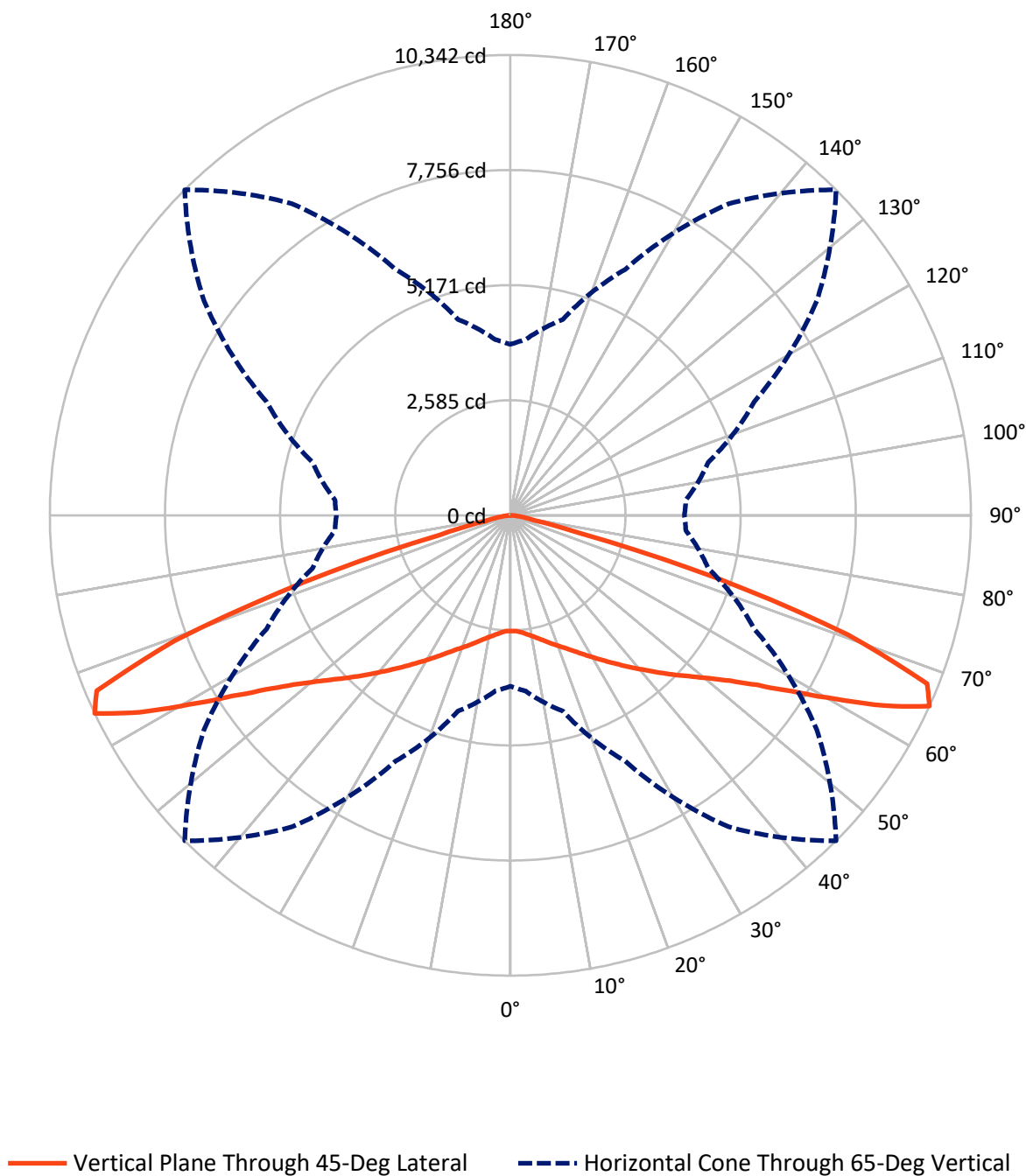
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10934.7	0.0	10934.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10934.7	0.0	10934.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	21869.4	0.0	21869.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.9	1.2
10°-20°	838.2	3.8
20°-30°	1582.5	7.2
30°-40°	2591.3	11.8
40°-50°	4017.9	18.4
50°-60°	5935.2	27.1
60°-70°	5649.8	25.8
70°-80°	911.7	4.2
80°-90°	85.9	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°	21869.4	100.0
0°-180°	21869.4	100.0

Coefficient of Utilization



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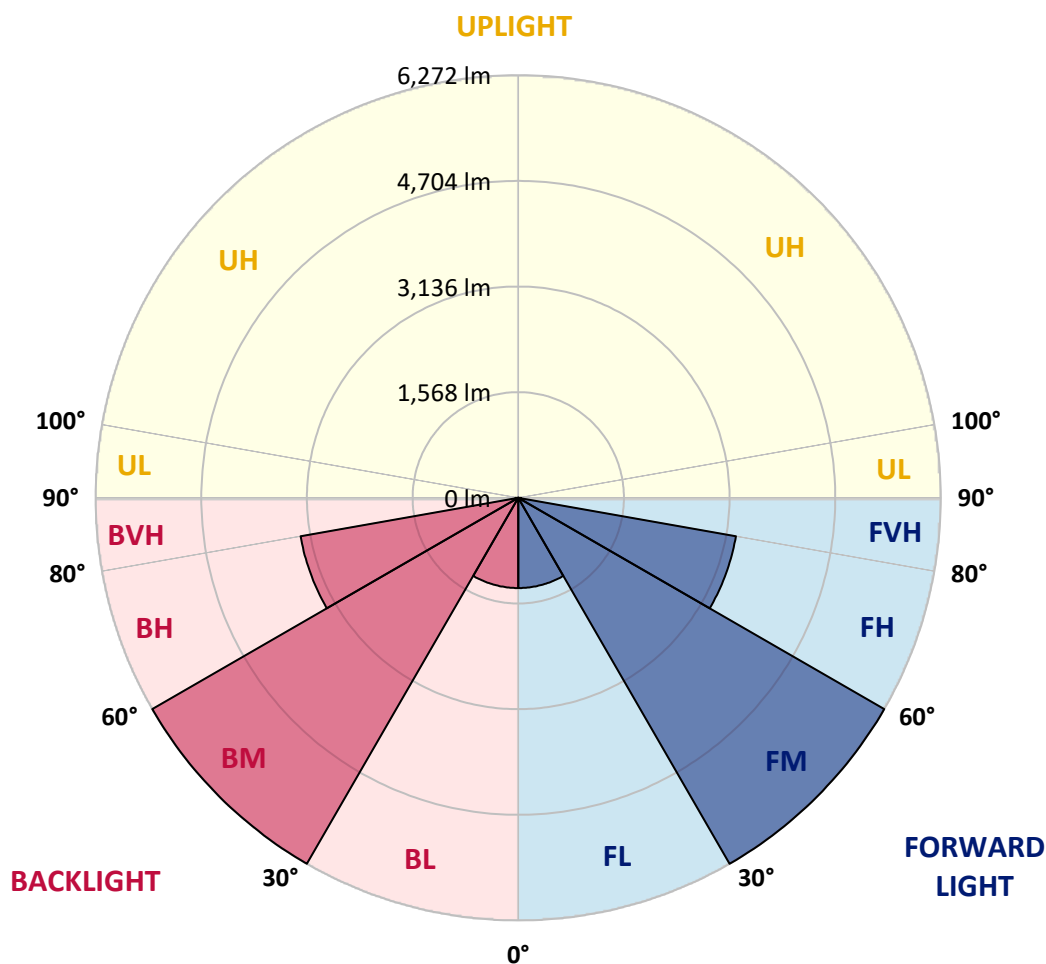
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1338.8	6.1			
FM	(30°-60°)	6272.2	28.7			
FH	(60°-80°)	3280.7	15.0			G2/5000
FVH	(80°-90°)	43.0	0.2			G1/100
BL	(0°-30°)	1338.8	6.1	B3/2500		
BM	(30°-60°)	6272.2	28.7	B4/8500		
BH	(60°-80°)	3280.7	15.0	B4/5000		G2/5000
BVH	(80°-90°)	43.0	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°	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7	2602.7
2.5°	2620.2	2611.5	2618.1	2612.5	2608.1	2603.8	2606.0	2613.6	2616.9	2618.1	2618.1
5°	2655.4	2647.7	2651.0	2651.0	2643.3	2641.1	2642.1	2647.7	2654.2	2654.2	2654.2
7.5°	2712.4	2704.8	2712.4	2708.0	2701.4	2699.2	2698.1	2702.5	2712.4	2712.4	2709.1
10°	2781.5	2772.7	2777.1	2775.0	2767.3	2764.0	2762.9	2769.4	2778.3	2777.1	2775.0
12.5°	2857.3	2847.3	2852.9	2846.2	2844.1	2840.8	2840.8	2839.7	2845.2	2840.8	2842.9
15°	2941.7	2935.2	2937.3	2932.9	2936.2	2934.1	2925.2	2920.8	2923.1	2916.5	2917.6
17.5°	3041.6	3026.2	3033.9	3031.7	3031.7	3036.0	3021.8	3016.4	3020.8	3014.1	3019.6
20°	3156.8	3141.4	3144.7	3140.3	3134.9	3139.3	3121.6	3126.0	3129.3	3124.9	3134.9
22.5°	3283.0	3263.2	3262.2	3264.3	3252.2	3253.4	3241.3	3252.2	3258.8	3246.8	3258.8
25°	3412.4	3391.6	3405.9	3400.3	3385.1	3388.3	3379.5	3390.5	3396.0	3380.7	3398.2
27.5°	3549.6	3535.3	3548.6	3551.8	3533.2	3546.3	3533.2	3543.0	3548.6	3525.5	3543.0
30°	3709.8	3695.5	3707.6	3716.3	3694.4	3715.3	3704.3	3710.9	3712.0	3684.6	3701.1
32.5°	3884.2	3862.3	3893.1	3897.5	3873.3	3898.5	3884.2	3893.1	3898.5	3861.2	3886.5
35°	4097.1	4069.7	4104.8	4099.3	4078.5	4099.3	4086.2	4099.3	4112.5	4067.5	4095.0
37.5°	4326.4	4297.9	4335.2	4325.4	4305.6	4319.9	4312.2	4321.0	4341.8	4293.5	4323.1
40°	4578.8	4543.7	4594.2	4576.6	4558.0	4555.8	4560.1	4565.7	4593.1	4539.3	4556.8
42.5°	4848.8	4811.5	4887.2	4859.7	4833.4	4815.9	4830.1	4841.1	4867.4	4807.0	4838.9
45°	5157.1	5114.2	5213.0	5180.1	5138.4	5102.2	5125.2	5141.7	5180.1	5107.7	5145.0
47.5°	5497.2	5448.9	5554.3	5544.4	5476.4	5397.3	5450.0	5497.2	5525.8	5437.9	5467.6
50°	5829.7	5792.4	5930.6	5942.7	5859.3	5748.5	5822.0	5893.3	5901.0	5785.8	5800.1
52.5°	6141.3	6104.0	6304.8	6380.5	6305.9	6174.2	6252.1	6324.6	6266.4	6117.2	6121.6
55°	6390.4	6359.6	6615.4	6810.6	6835.8	6727.3	6773.3	6771.2	6580.2	6350.9	6358.6
57.5°	6450.7	6446.3	6768.9	7182.6	7445.9	7459.1	7368.0	7135.4	6724.0	6415.6	6395.9
60°	6176.4	6203.8	6647.1	7376.8	8079.0	8371.0	7977.0	7313.2	6560.4	6132.6	6082.0
62.5°	5355.7	5428.1	5962.4	7139.8	8590.4	9419.9	8465.3	7043.3	5888.9	5330.4	5297.5
65°	3838.2	3964.4	4554.7	6093.0	8544.3	10341.5	8395.1	6043.6	4598.6	3954.4	3907.3
67.5°	1741.4	1869.7	2371.1	4171.8	7427.3	10091.4	7409.7	4215.6	2489.6	1876.3	1848.9
70°	630.9	652.8	814.2	1670.0	4746.7	8040.6	4949.7	1682.1	865.7	695.7	686.9
72.5°	381.8	385.1	419.1	598.0	1649.1	4881.7	1719.4	617.8	427.9	379.7	386.2
75°	242.5	240.3	298.5	365.4	584.9	1647.0	613.4	365.4	297.4	271.0	273.3
77.5°	174.5	180.0	213.9	273.3	368.7	558.5	362.1	261.2	213.9	175.6	178.9
80°	130.6	133.9	155.8	212.9	258.9	347.8	230.4	193.1	161.3	109.7	113.1
82.5°	94.4	94.4	102.1	154.7	158.1	187.7	125.0	136.0	106.4	77.9	77.9
85°	56.0	54.8	63.7	92.1	82.3	69.1	57.1	83.4	66.9	48.3	47.2
87.5°	19.8	20.8	19.8	26.3	21.9	18.7	17.5	23.1	18.7	16.5	15.4
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)