

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: P963946

Luminaire Tested: **NAV-SB3B-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963946
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-SB3B-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14152.2 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

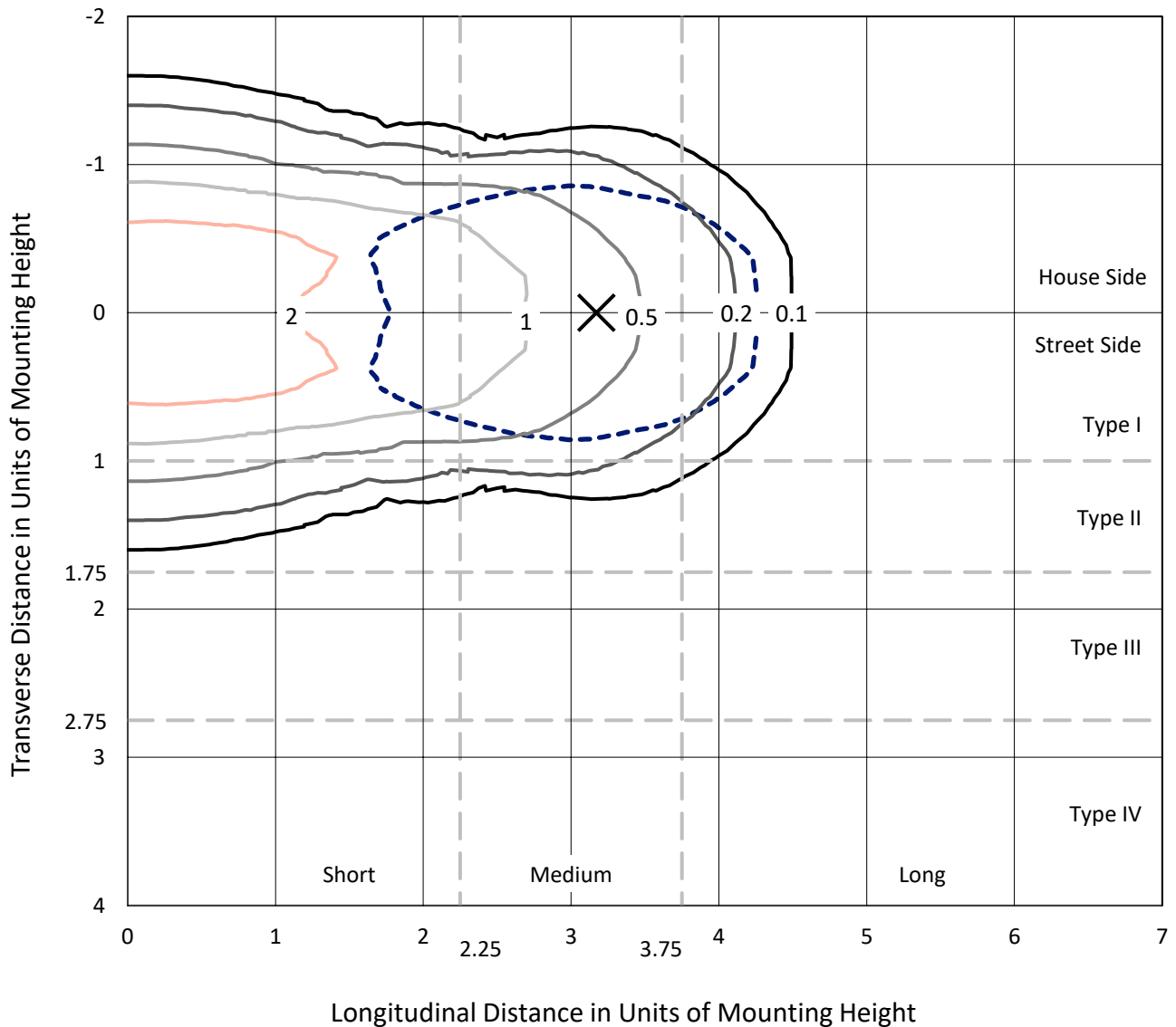
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

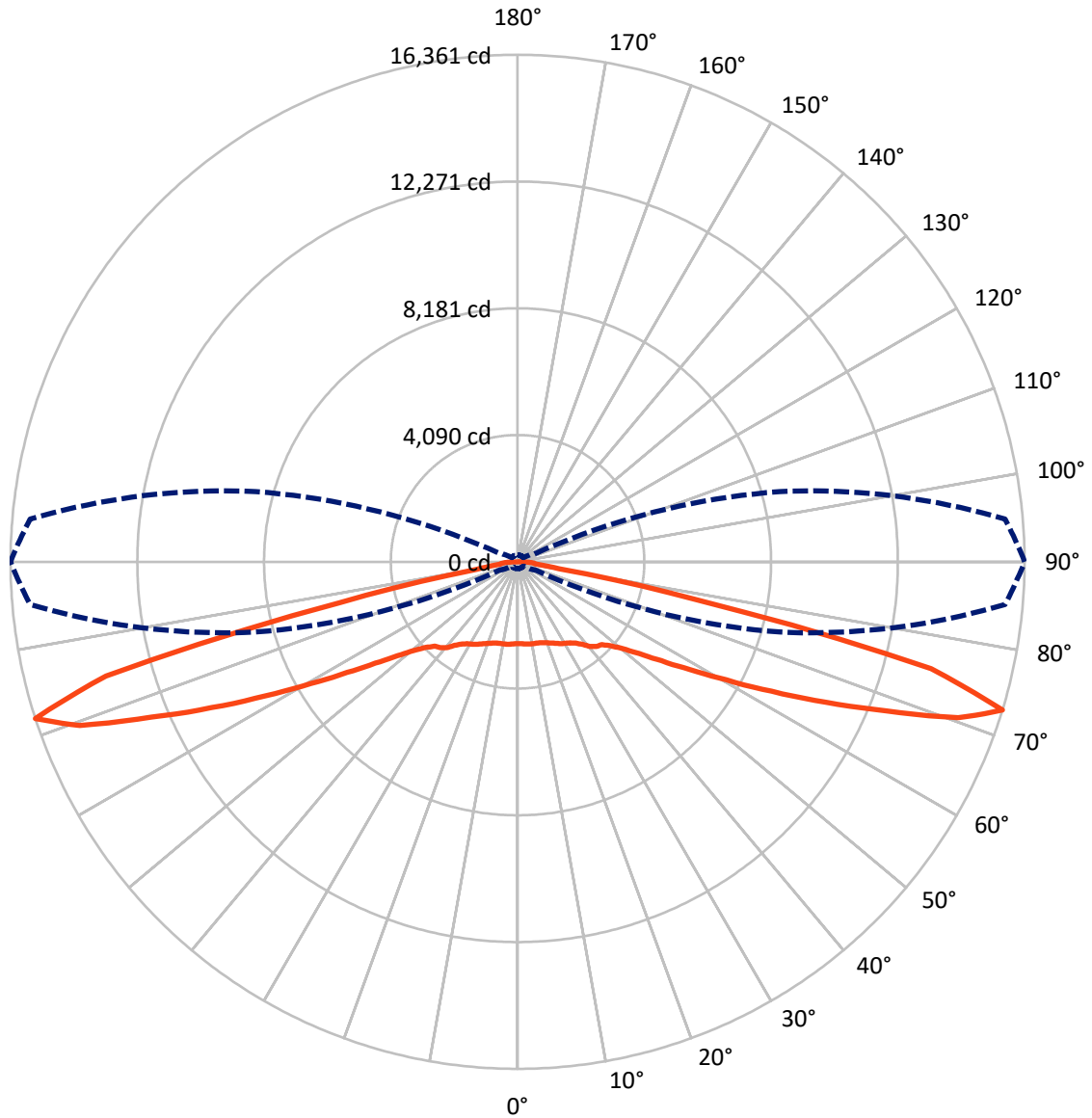
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type 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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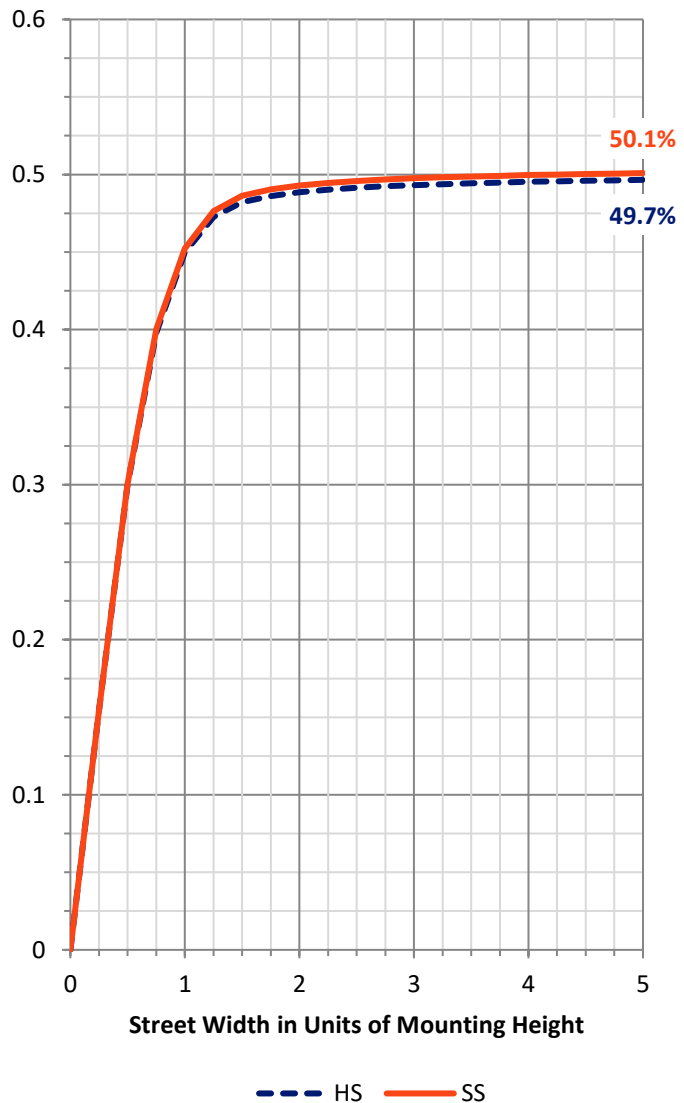
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7076.1	0.0	7076.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7076.1	0.0	7076.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	14152.2	0.0	14152.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	1.8
10°-20°	784.0	5.5
20°-30°	1307.3	9.2
30°-40°	1797.9	12.7
40°-50°	2195.7	15.5
50°-60°	2539.6	17.9
60°-70°	3028.1	21.4
70°-80°	2113.4	14.9
80°-90°	129.8	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°	14152.2	100.0
0°-180°	14152.2	100.0

Coefficient of Utilization

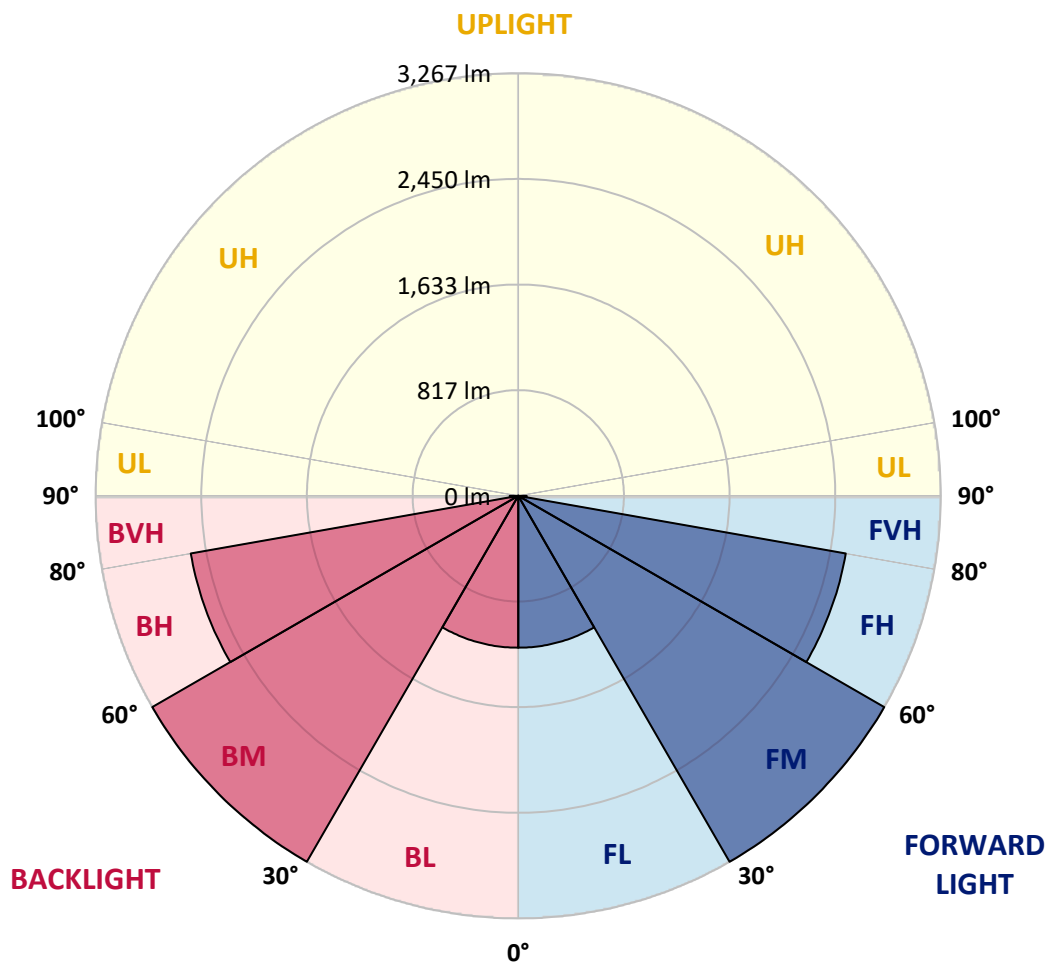


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.8	8.3			
FM (30°-60°)	3266.6	23.1			
FH (60°-80°)	2570.7	18.2			G2/5000
FVH (80°-90°)	64.9	0.5			G1/100
BL (0°-30°)	1173.8	8.3	B3/2500		
BM (30°-60°)	3266.6	23.1	B3/5000		
BH (60°-80°)	2570.7	18.2	B4/5000		G4/5000
BVH (80°-90°)	64.9	0.5			G1/100
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°	2644.5	2644.5	2644.5	2644.5	2644.5	2644.5	2644.5	2644.5	2644.5	2644.5	2644.5
2.5°	2646.8	2649.7	2649.7	2647.5	2652.8	2648.3	2648.3	2646.0	2648.3	2646.0	2646.0
5°	2660.3	2664.1	2665.5	2664.8	2671.6	2667.8	2667.8	2664.8	2665.5	2663.3	2663.3
7.5°	2685.8	2691.1	2694.1	2697.9	2707.6	2703.1	2700.2	2691.1	2687.3	2681.3	2681.3
10°	2694.1	2700.2	2709.9	2729.5	2752.0	2752.7	2743.7	2721.2	2704.0	2690.3	2688.1
12.5°	2668.6	2676.8	2697.1	2737.0	2787.4	2807.7	2793.4	2755.8	2722.0	2697.9	2694.1
15°	2636.2	2645.2	2676.1	2736.2	2810.7	2858.1	2856.6	2807.0	2752.7	2715.2	2709.2
17.5°	2585.8	2594.9	2639.2	2723.4	2828.8	2907.0	2928.0	2876.9	2800.9	2750.5	2742.3
20°	2494.8	2503.0	2564.8	2682.8	2834.7	2958.9	3013.8	2968.6	2873.9	2805.4	2792.6
22.5°	2376.8	2389.5	2461.7	2612.9	2820.5	3013.0	3111.6	3080.7	2958.9	2864.1	2846.8
25°	2250.4	2263.9	2348.2	2527.1	2783.6	3052.1	3227.4	3207.8	3055.1	2937.0	2912.9
27.5°	2141.3	2155.6	2247.3	2442.2	2726.5	3067.2	3341.7	3351.4	3171.8	3017.5	2992.0
30°	2055.5	2069.1	2166.8	2373.7	2652.8	3052.1	3441.7	3509.4	3290.6	3087.5	3050.6
32.5°	1961.5	1978.9	2081.9	2290.3	2565.5	3016.1	3529.0	3680.2	3428.2	3162.7	3116.1
35°	1842.7	1858.5	1966.8	2175.9	2451.2	2958.1	3602.0	3869.7	3625.2	3277.0	3225.2
37.5°	1698.3	1713.4	1820.9	2033.0	2337.6	2876.9	3657.6	4083.3	3859.9	3441.7	3372.6
40°	1553.2	1567.4	1668.2	1873.6	2201.5	2773.1	3677.2	4292.4	4129.2	3668.2	3594.5
42.5°	1420.0	1432.8	1525.3	1716.4	2048.8	2640.7	3651.6	4474.4	4370.6	3826.1	3731.3
45°	1297.4	1308.7	1390.7	1569.0	1890.1	2479.8	3574.9	4670.0	4657.9	3938.9	3811.1
47.5°	1157.5	1168.8	1253.8	1426.1	1731.4	2291.0	3444.7	4862.5	5057.3	4194.6	4047.2
50°	986.8	996.6	1083.8	1261.4	1566.7	2090.2	3264.2	5013.7	5561.2	4582.0	4396.9
52.5°	784.4	795.0	880.0	1057.5	1371.1	1874.3	3026.5	5112.2	6143.3	5147.5	4919.7
55°	583.6	591.2	664.9	824.3	1128.9	1628.3	2728.8	5140.1	6803.7	5920.7	5635.7
57.5°	423.4	427.9	475.4	594.2	855.9	1320.7	2366.9	5067.8	7589.7	6912.1	6553.3
60°	343.0	344.5	358.7	411.4	594.9	973.2	1930.0	4819.7	8442.6	8190.0	7737.9
62.5°	311.4	311.4	315.2	329.4	402.4	642.4	1401.2	4305.2	9357.2	9804.7	9199.3
65°	289.6	289.6	291.1	297.9	317.4	409.2	884.5	3467.3	10128.1	11696.4	10930.7
67.5°	270.0	270.8	270.0	272.2	283.5	302.4	512.9	2394.8	10543.4	13656.4	12829.8
70°	249.7	251.2	247.4	247.4	256.5	257.3	321.1	1313.2	10198.9	15299.0	15081.6
72.5°	225.6	227.9	221.9	220.4	227.1	224.2	241.4	630.3	8756.3	15789.4	16361.0
75°	204.6	207.6	194.0	190.2	190.2	188.0	196.3	323.4	5683.1	12880.2	13776.7
77.5°	185.7	191.8	169.9	158.0	155.0	148.2	160.2	197.8	2485.8	6047.1	5921.5
80°	153.4	161.7	139.9	125.6	120.3	112.9	126.4	138.4	739.3	1404.2	1344.8
82.5°	114.3	118.1	99.3	89.5	85.0	79.7	94.8	96.2	240.7	497.1	561.8
85°	73.0	74.4	60.9	52.7	50.4	48.2	60.2	52.7	91.7	365.5	531.1
87.5°	25.5	29.3	23.3	21.0	22.5	18.8	27.8	15.8	25.5	258.0	319.7
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)