

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: P962582

Luminaire Tested: **NAV-SB2C-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962582
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-SB2C-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13206.1 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

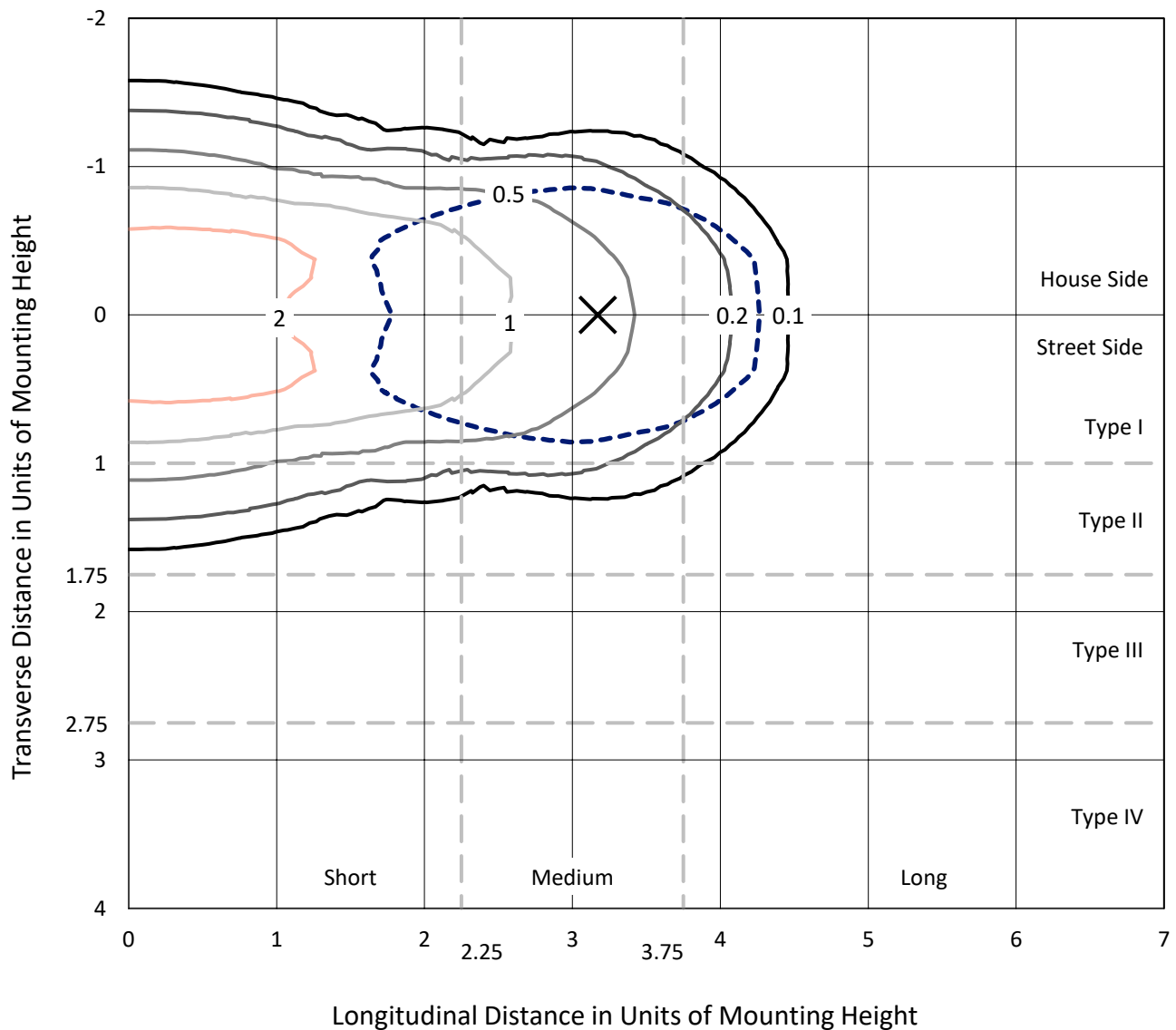
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

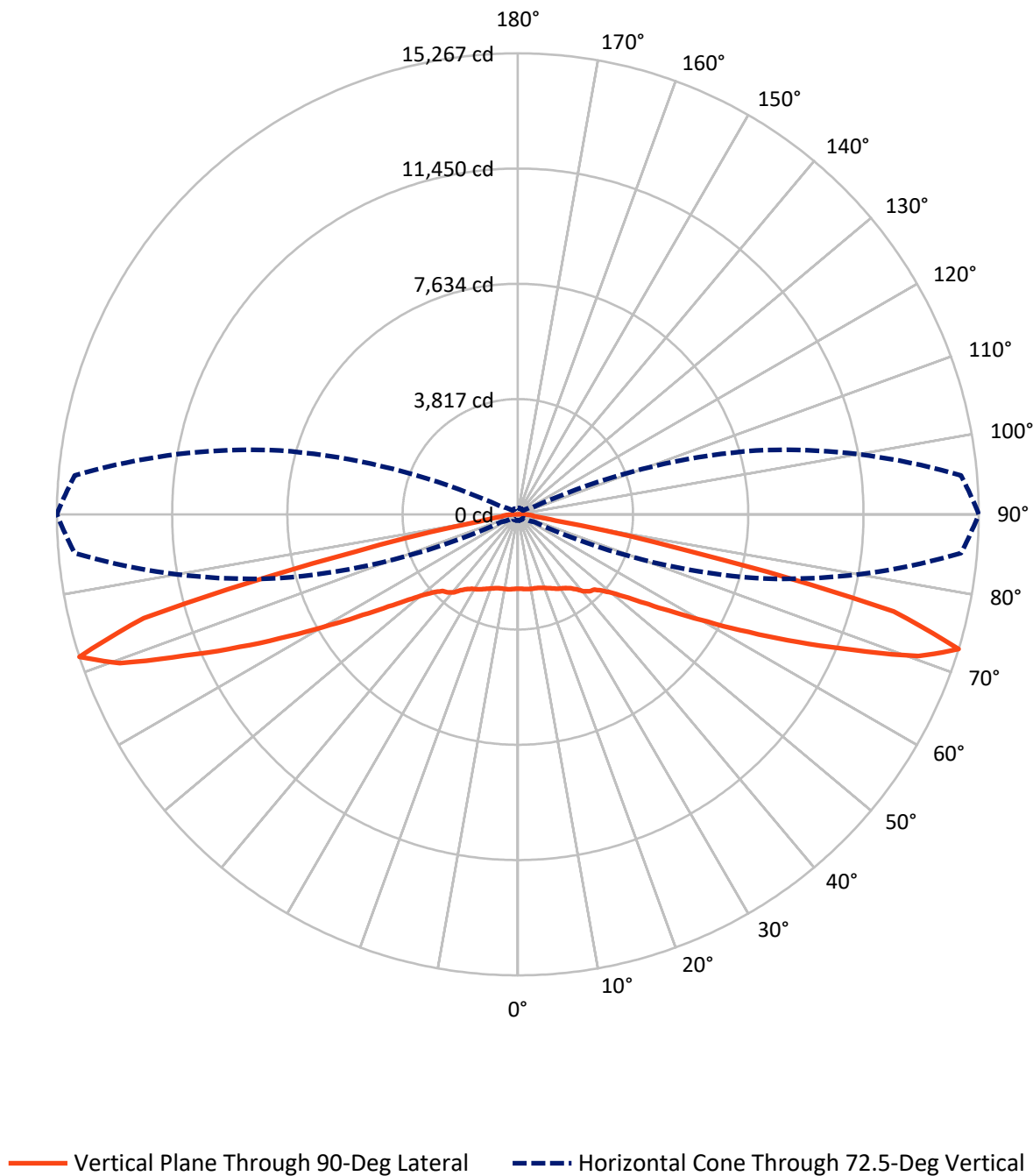
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6603.0	0.0	6603.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6603.0	0.0	6603.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13206.1	0.0	13206.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	1.8
10°-20°	731.6	5.5
20°-30°	1219.9	9.2
30°-40°	1677.7	12.7
40°-50°	2048.9	15.5
50°-60°	2369.8	17.9
60°-70°	2825.6	21.4
70°-80°	1972.1	14.9
80°-90°	121.1	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°	13206.1	100.0
0°-180°	13206.1	100.0

Coefficient of Utilization



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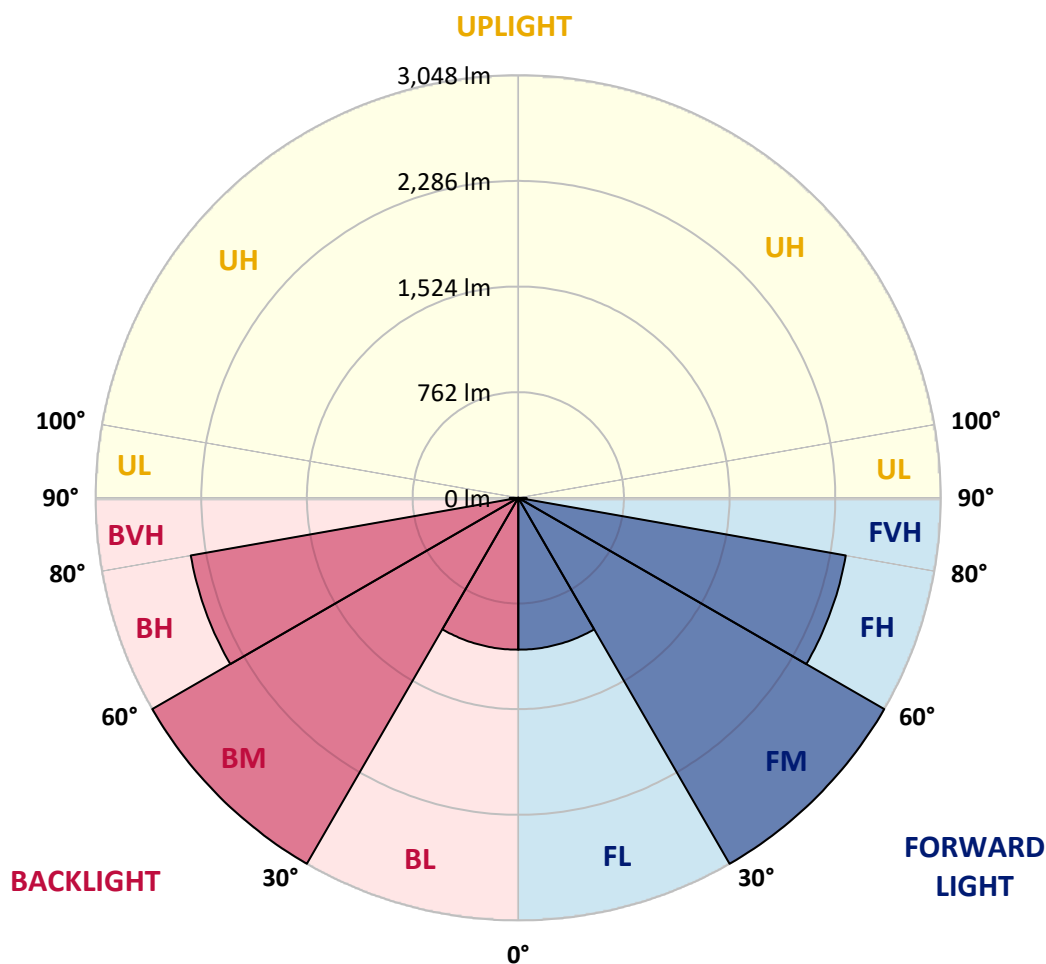
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1095.4	8.3			
FM	(30°-60°)	3048.2	23.1			
FH	(60°-80°)	2398.9	18.2			G2/5000
FVH	(80°-90°)	60.6	0.5			G1/100
BL	(0°-30°)	1095.4	8.3	B3/2500		
BM	(30°-60°)	3048.2	23.1	B3/5000		
BH	(60°-80°)	2398.9	18.2	B3/2500		G3/2500
BVH	(80°-90°)	60.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2467.7	2467.7	2467.7	2467.7	2467.7	2467.7	2467.7	2467.7	2467.7	2467.7	2467.7
2.5°	2469.8	2472.6	2472.6	2470.6	2475.4	2471.2	2471.2	2469.1	2471.2	2469.1	2469.1
5°	2482.4	2485.9	2487.4	2486.6	2493.0	2489.4	2489.4	2486.6	2487.4	2485.2	2485.2
7.5°	2506.3	2511.2	2514.0	2517.5	2526.6	2522.4	2519.7	2511.2	2507.7	2502.1	2502.1
10°	2514.0	2519.7	2528.8	2547.0	2568.0	2568.8	2560.3	2539.3	2523.1	2510.5	2508.4
12.5°	2490.1	2497.9	2516.8	2554.0	2601.0	2620.0	2606.7	2571.6	2540.0	2517.5	2514.0
15°	2460.0	2468.4	2497.2	2553.3	2622.8	2667.0	2665.6	2619.3	2568.8	2533.7	2528.1
17.5°	2413.0	2421.4	2462.8	2541.4	2639.7	2712.7	2732.3	2684.6	2613.6	2566.7	2558.9
20°	2328.1	2335.8	2393.3	2503.5	2645.2	2761.0	2812.3	2770.2	2681.8	2617.8	2606.0
22.5°	2217.8	2229.8	2297.1	2438.3	2631.9	2811.6	2903.5	2874.8	2761.0	2672.7	2656.5
25°	2099.9	2112.5	2191.1	2358.2	2597.6	2848.1	3011.7	2993.4	2850.9	2740.7	2718.3
27.5°	1998.1	2011.5	2097.1	2278.9	2544.2	2862.1	3118.4	3127.5	2959.7	2815.8	2792.0
30°	1918.2	1930.8	2022.0	2215.0	2475.4	2848.1	3211.6	3274.9	3070.6	2881.1	2846.7
32.5°	1830.4	1846.5	1942.7	2137.1	2394.0	2814.4	3293.1	3434.2	3199.0	2951.3	2907.7
35°	1719.5	1734.3	1835.4	2030.4	2287.3	2760.3	3361.2	3611.0	3382.9	3058.0	3009.5
37.5°	1584.8	1598.8	1699.1	1897.1	2181.3	2684.6	3413.0	3810.3	3601.8	3211.6	3147.1
40°	1449.4	1462.7	1556.7	1748.3	2054.3	2587.7	3431.3	4005.5	3853.2	3422.9	3354.1
42.5°	1325.1	1337.0	1423.3	1601.7	1911.8	2464.2	3407.5	4175.3	4078.5	3570.3	3481.8
45°	1210.7	1221.2	1297.8	1464.0	1763.7	2314.0	3335.9	4357.8	4346.5	3675.5	3556.2
47.5°	1080.1	1090.7	1169.9	1330.7	1615.6	2137.8	3214.5	4537.5	4719.2	3914.2	3776.6
50°	920.9	930.0	1011.4	1177.0	1462.0	1950.5	3046.0	4678.5	5189.5	4275.7	4103.0
52.5°	732.1	741.9	821.1	986.8	1279.5	1749.0	2824.3	4770.5	5732.7	4803.5	4590.8
55°	544.7	551.7	620.4	769.3	1053.5	1519.5	2546.3	4796.4	6349.0	5525.0	5259.0
57.5°	395.1	399.3	443.5	554.4	798.7	1232.5	2208.7	4729.0	7082.3	6450.0	6115.3
60°	320.0	321.4	334.8	383.9	555.1	908.2	1800.9	4497.5	7878.3	7642.4	7220.6
62.5°	290.6	290.6	294.1	307.4	375.5	599.4	1307.6	4017.4	8731.7	9149.3	8584.3
65°	270.2	270.2	271.6	278.0	296.2	381.8	825.3	3235.5	9451.1	10914.4	10200.0
67.5°	251.9	252.7	251.9	254.1	264.6	282.2	478.7	2234.7	9838.5	12743.4	11972.1
70°	233.0	234.4	230.9	230.9	239.3	240.1	299.7	1225.4	9517.0	14276.3	14073.5
72.5°	210.5	212.7	207.0	205.6	212.0	209.1	225.3	588.1	8170.9	14733.9	15267.3
75°	190.9	193.7	181.1	177.5	177.5	175.5	183.2	301.8	5303.1	12019.2	12855.8
77.5°	173.3	179.0	158.6	147.4	144.6	138.3	149.4	184.6	2319.6	5642.8	5525.7
80°	143.2	150.9	130.6	117.2	112.3	105.3	117.9	129.1	689.9	1310.4	1254.9
82.5°	106.7	110.2	92.7	83.5	79.3	74.4	88.5	89.8	224.6	463.9	524.3
85°	68.1	69.5	56.9	49.1	47.0	44.9	56.2	49.1	85.6	341.1	495.5
87.5°	23.9	27.4	21.7	19.7	21.0	17.5	25.9	14.8	23.9	240.8	298.3
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)