

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: P962396

Luminaire Tested: **NAV-SB2C-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962396
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-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14086.6 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

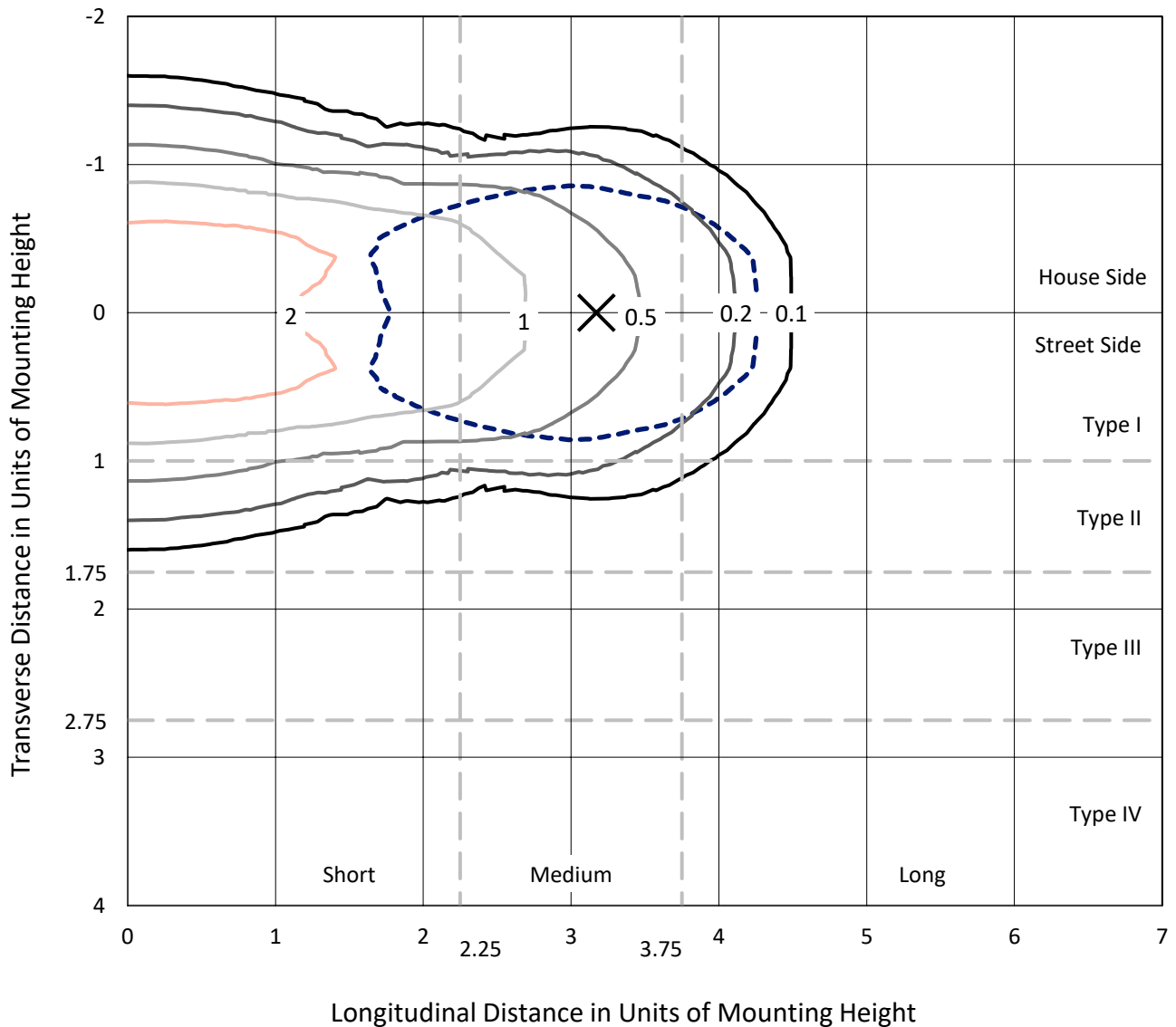
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

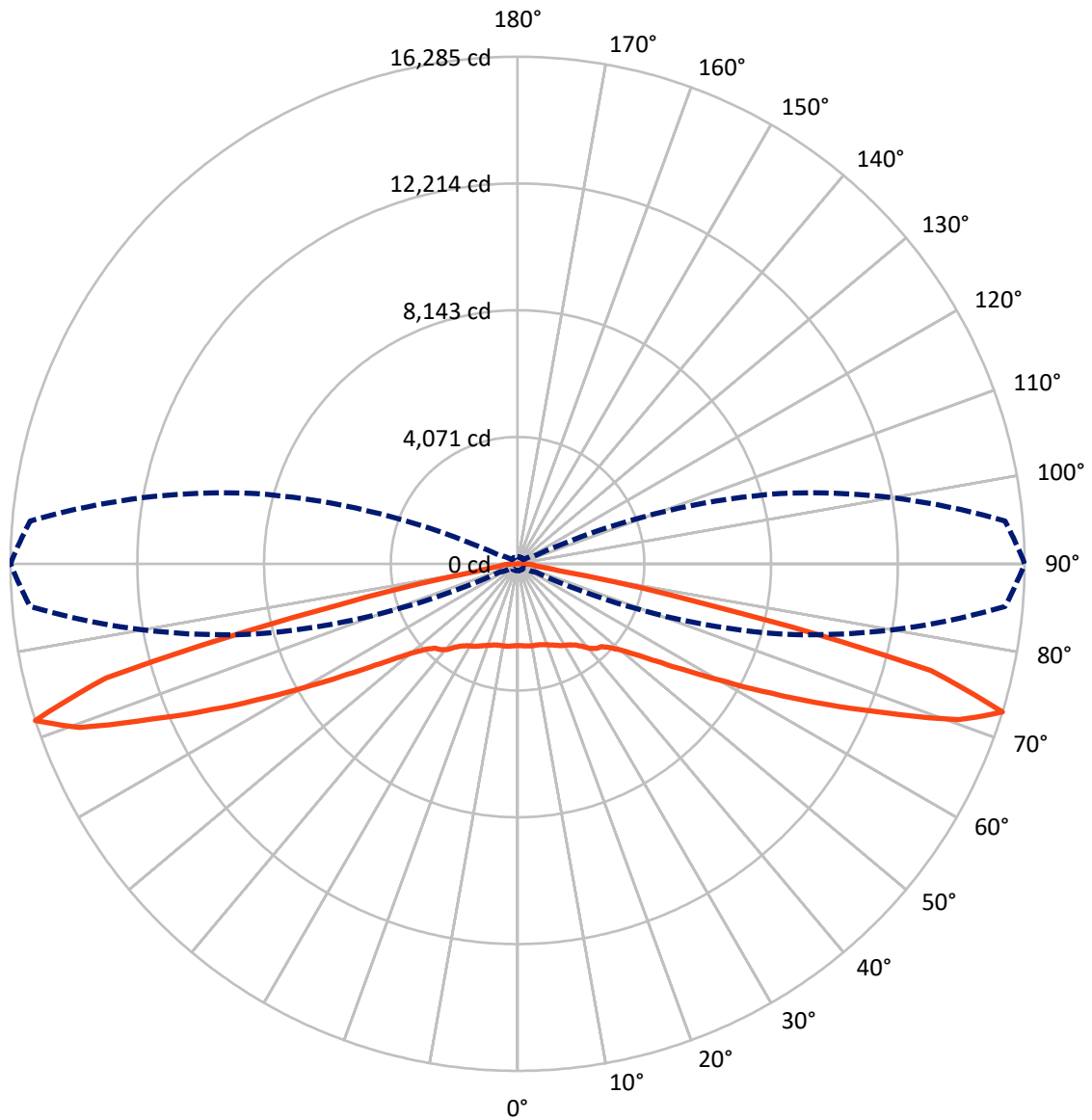
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	7043.3	0.0	7043.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7043.3	0.0	7043.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	14086.6	0.0	14086.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	1.8
10°-20°	780.4	5.5
20°-30°	1301.2	9.2
30°-40°	1789.6	12.7
40°-50°	2185.5	15.5
50°-60°	2527.8	17.9
60°-70°	3014.0	21.4
70°-80°	2103.6	14.9
80°-90°	129.2	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°	14086.6	100.0
0°-180°	14086.6	100.0

Coefficient of Utilization

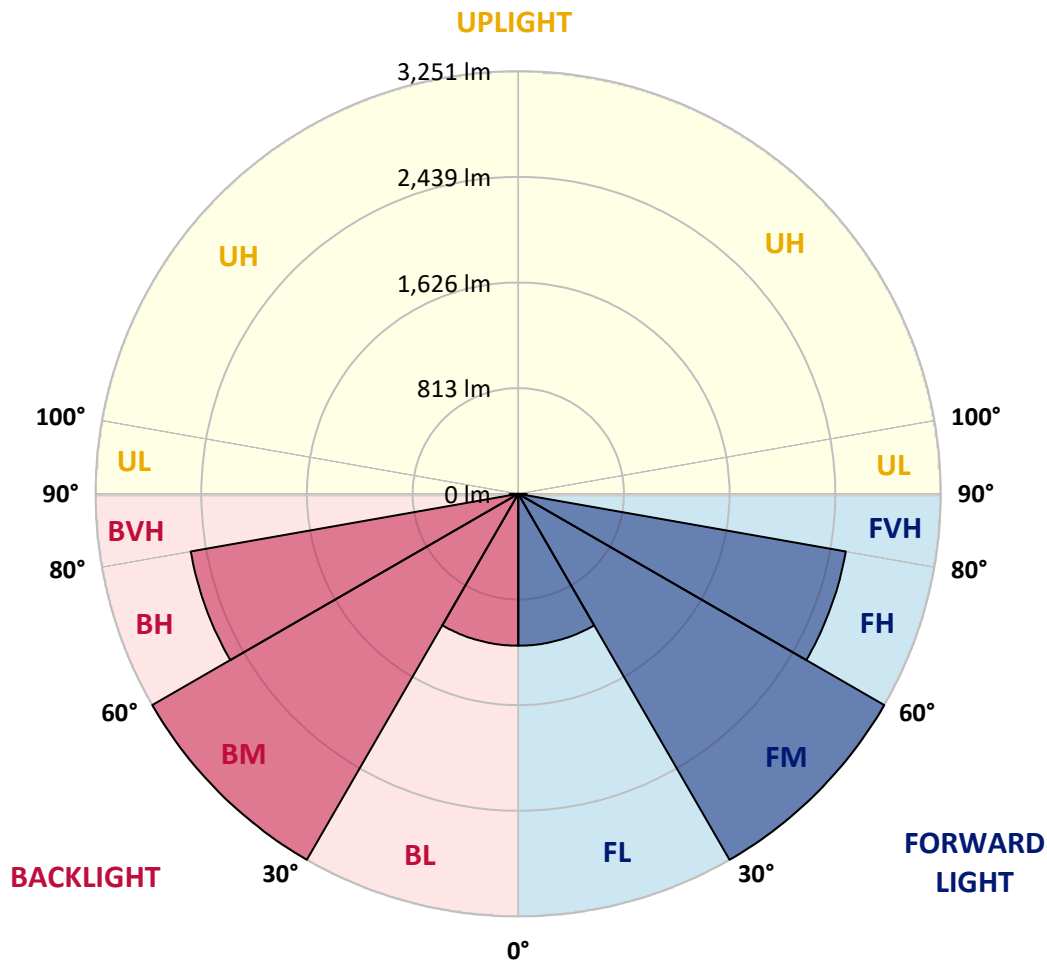


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1168.4	8.3			
FM (30°-60°)	3251.5	23.1			
FH (60°-80°)	2558.8	18.2			G2/5000
FVH (80°-90°)	64.6	0.5			G1/100
BL (0°-30°)	1168.4	8.3	B3/2500		
BM (30°-60°)	3251.5	23.1	B3/5000		
BH (60°-80°)	2558.8	18.2	B4/5000		G4/5000
BVH (80°-90°)	64.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2632.2	2632.2	2632.2	2632.2	2632.2	2632.2	2632.2	2632.2	2632.2	2632.2	2632.2
2.5°	2634.5	2637.4	2637.4	2635.2	2640.5	2636.0	2636.0	2633.7	2636.0	2633.7	2633.7
5°	2648.0	2651.7	2653.2	2652.4	2659.2	2655.5	2655.5	2652.4	2653.2	2651.0	2651.0
7.5°	2673.4	2678.6	2681.6	2685.4	2695.1	2690.6	2687.7	2678.6	2674.9	2668.9	2668.9
10°	2681.6	2687.7	2697.4	2716.9	2739.3	2740.0	2731.0	2708.6	2691.3	2677.9	2675.7
12.5°	2656.2	2664.4	2684.7	2724.3	2774.5	2794.7	2780.4	2743.0	2709.4	2685.4	2681.6
15°	2624.0	2633.0	2663.7	2723.5	2797.6	2844.9	2843.4	2793.9	2740.0	2702.6	2696.6
17.5°	2573.9	2582.8	2627.0	2710.8	2815.7	2893.5	2914.5	2863.5	2787.9	2737.8	2729.6
20°	2483.3	2491.5	2552.9	2670.4	2821.6	2945.1	2999.8	2954.9	2860.6	2792.4	2779.7
22.5°	2365.7	2378.4	2450.3	2600.7	2807.4	2999.0	3097.1	3066.4	2945.1	2850.8	2833.6
25°	2239.9	2253.5	2337.3	2515.5	2770.7	3038.0	3212.5	3193.0	3041.0	2923.4	2899.5
27.5°	2131.4	2145.6	2237.0	2430.9	2713.8	3053.0	3326.2	3336.0	3157.0	3003.6	2978.1
30°	2046.0	2059.5	2156.8	2362.7	2640.5	3038.0	3425.8	3493.2	3275.3	3073.2	3036.5
32.5°	1952.4	1969.6	2072.2	2279.6	2553.6	3002.0	3512.7	3663.1	3412.3	3148.1	3101.6
35°	1834.1	1849.9	1957.7	2165.8	2439.8	2944.4	3585.2	3851.7	3608.4	3261.9	3210.2
37.5°	1690.4	1705.4	1812.5	2023.6	2326.8	2863.5	3640.6	4064.3	3842.0	3425.8	3356.9
40°	1545.9	1560.2	1660.5	1864.9	2191.2	2760.2	3660.1	4272.5	4110.0	3651.2	3577.8
42.5°	1413.5	1426.2	1518.2	1708.4	2039.3	2628.5	3634.6	4453.6	4350.4	3808.4	3714.0
45°	1291.4	1302.7	1384.3	1561.7	1881.4	2468.3	3558.3	4648.3	4636.4	3920.6	3793.3
47.5°	1152.2	1163.4	1247.9	1419.4	1723.3	2280.3	3428.8	4839.9	5033.9	4175.1	4028.5
50°	982.3	992.0	1078.8	1255.5	1559.4	2080.4	3249.1	4990.4	5535.4	4560.7	4376.5
52.5°	780.8	791.3	875.9	1052.6	1364.8	1865.6	3012.6	5088.5	6114.9	5123.7	4896.8
55°	581.0	588.5	661.8	820.5	1123.7	1620.8	2716.0	5116.2	6772.2	5893.3	5609.6
57.5°	421.5	426.0	473.1	591.4	852.0	1314.7	2356.0	5044.3	7554.6	6880.0	6522.9
60°	341.4	342.9	357.1	409.5	592.1	968.7	1921.1	4797.3	8403.5	8151.9	7702.1
62.5°	310.0	310.0	313.6	327.9	400.6	639.3	1394.7	4285.2	9313.9	9759.3	9156.6
65°	288.2	288.2	289.8	296.4	315.9	407.2	880.4	3451.3	10081.2	11642.2	10880.0
67.5°	268.8	269.5	268.8	271.0	282.3	300.9	510.6	2383.6	10494.5	13593.1	12770.4
70°	248.6	250.0	246.3	246.3	255.3	256.0	319.7	1307.1	10151.6	15228.1	15011.7
72.5°	224.6	226.8	220.9	219.4	226.1	223.1	240.4	627.4	8715.7	15716.2	16285.2
75°	203.7	206.6	193.1	189.4	189.4	187.2	195.4	322.0	5656.8	12820.5	13712.9
77.5°	184.9	190.9	169.2	157.2	154.3	147.5	159.5	196.9	2474.2	6019.1	5894.1
80°	152.7	160.9	139.3	125.0	119.8	112.3	125.8	137.8	735.9	1397.7	1338.5
82.5°	113.8	117.6	98.8	89.1	84.6	79.3	94.3	95.8	239.5	494.9	559.2
85°	72.6	74.1	60.7	52.4	50.1	47.9	59.9	52.4	91.3	363.9	528.5
87.5°	25.4	29.2	23.2	21.0	22.4	18.8	27.7	15.7	25.4	256.8	318.2
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)