

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: P963450

Luminaire Tested: **NAV-SB3A-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963450
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-SB3A-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12658.7 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

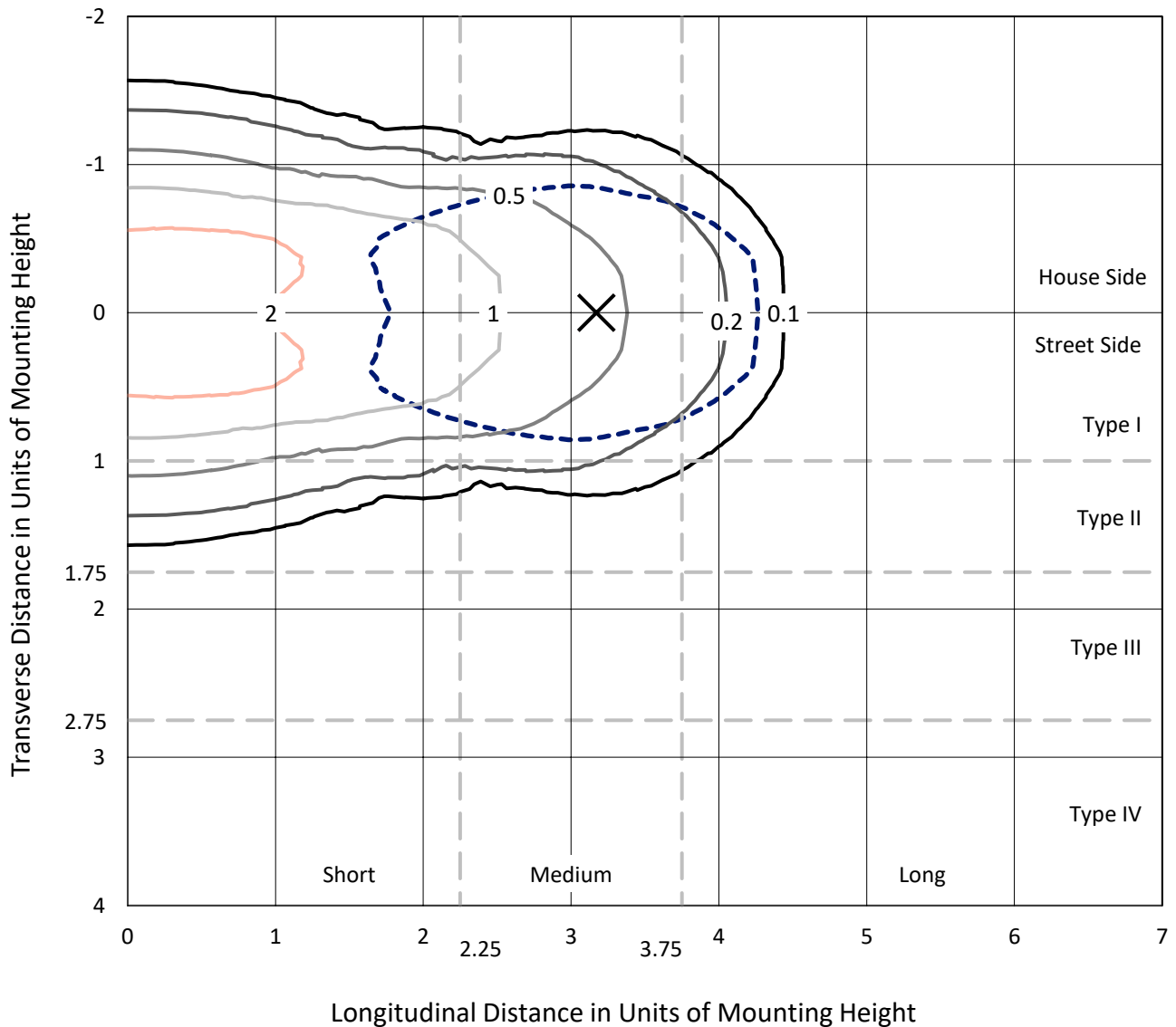
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

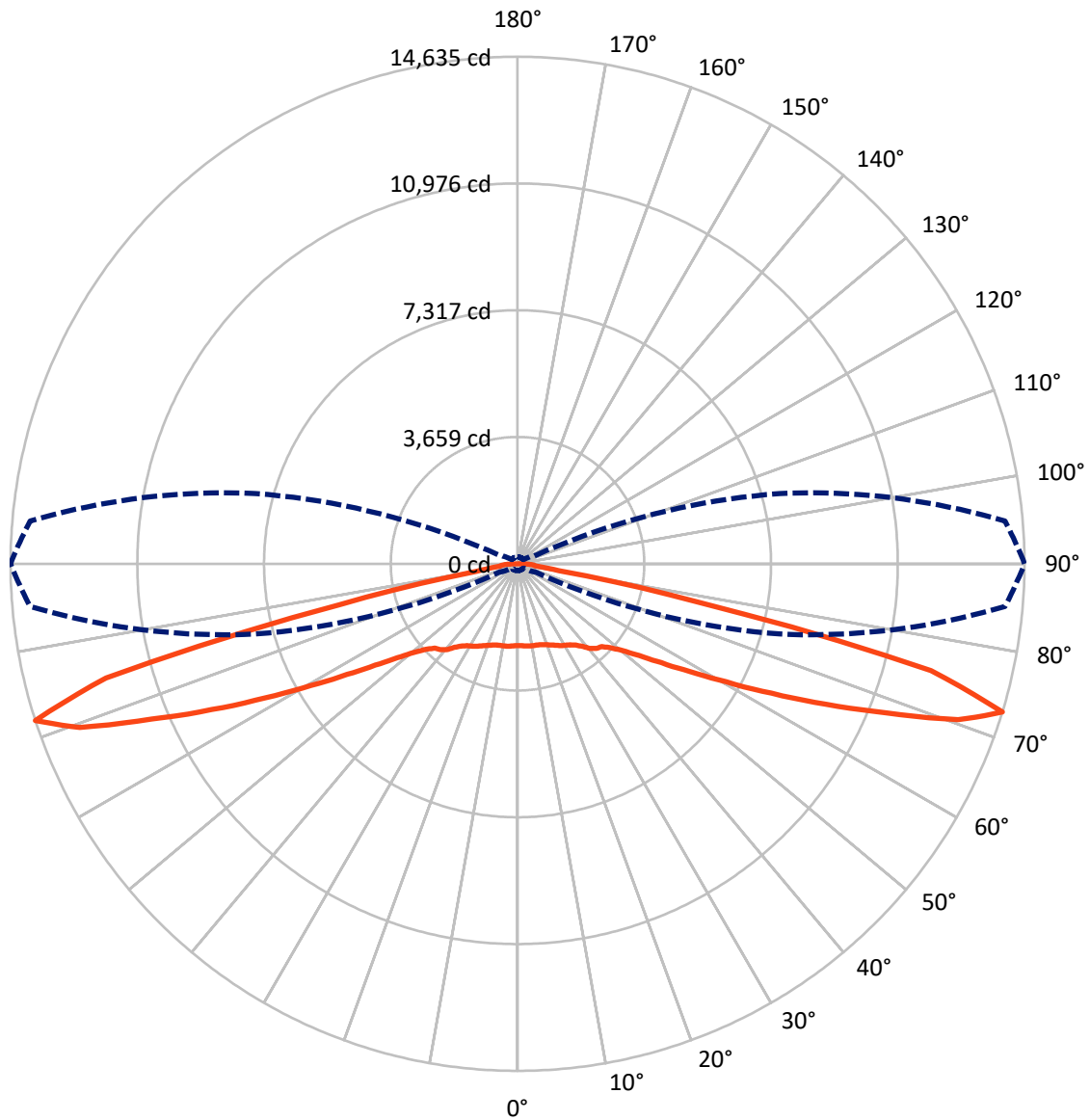
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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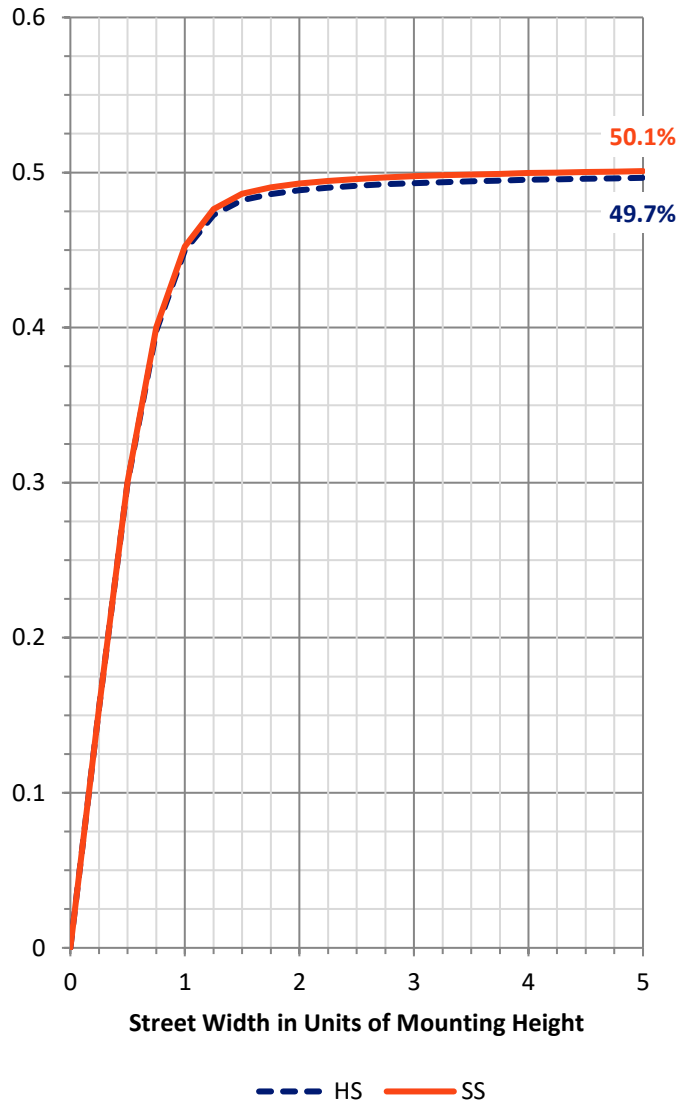
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6329.4	0.0	6329.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6329.4	0.0	6329.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	12658.7	0.0	12658.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.4	1.8
10°-20°	701.3	5.5
20°-30°	1169.3	9.2
30°-40°	1608.2	12.7
40°-50°	1964.0	15.5
50°-60°	2271.6	17.9
60°-70°	2708.5	21.4
70°-80°	1890.4	14.9
80°-90°	116.1	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°	12658.7	100.0
0°-180°	12658.7	100.0

Coefficient of Utilization



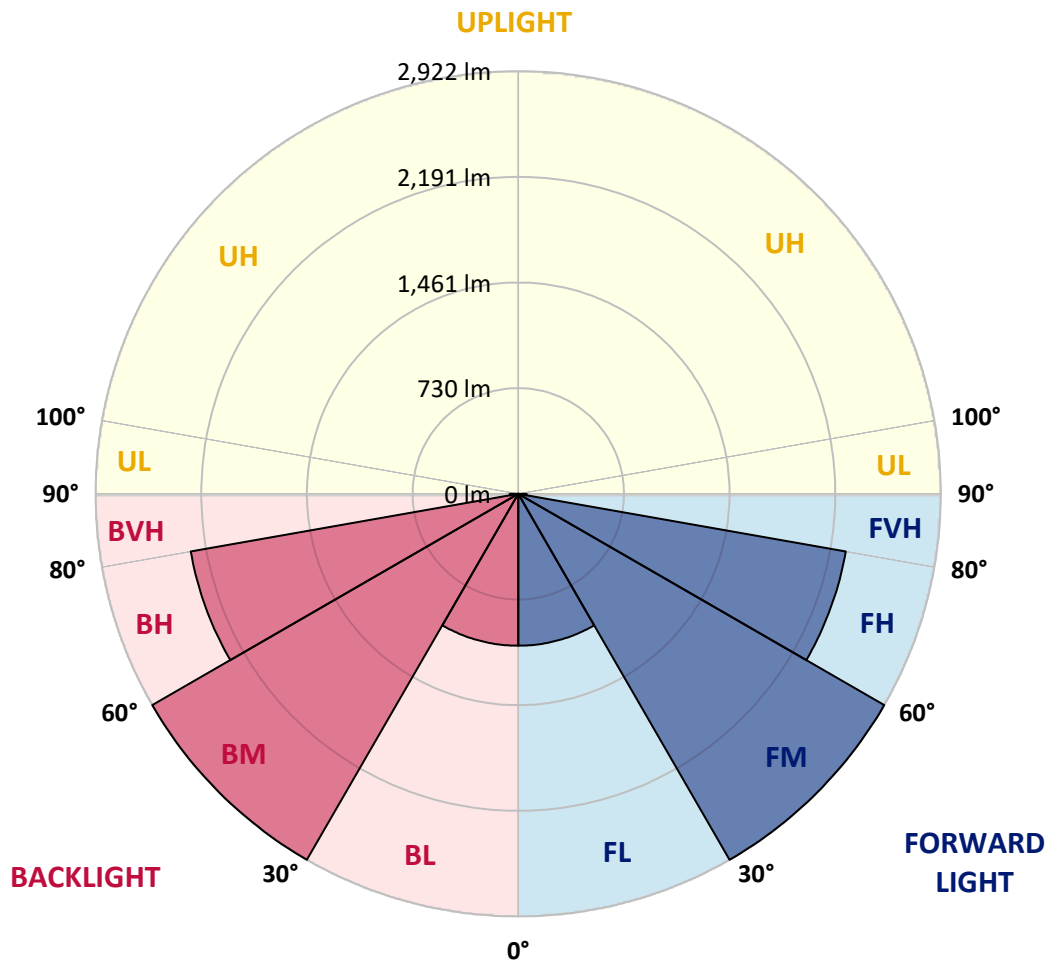
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.0	8.3			
FM (30°-60°)	2921.9	23.1			
FH (60°-80°)	2299.4	18.2			G2/5000
FVH (80°-90°)	58.1	0.5			G1/100
BL (0°-30°)	1050.0	8.3	B3/2500		
BM (30°-60°)	2921.9	23.1	B3/5000		
BH (60°-80°)	2299.4	18.2	B3/2500		G3/2500
BVH (80°-90°)	58.1	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°	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4	2365.4
2.5°	2367.4	2370.1	2370.1	2368.2	2372.8	2368.8	2368.8	2366.7	2368.8	2366.7	2366.7
5°	2379.5	2382.9	2384.3	2383.5	2389.7	2386.3	2386.3	2383.5	2384.3	2382.2	2382.2
7.5°	2402.4	2407.1	2409.8	2413.2	2422.0	2417.9	2415.2	2407.1	2403.7	2398.4	2398.4
10°	2409.8	2415.2	2423.9	2441.4	2461.6	2462.3	2454.3	2434.1	2418.6	2406.5	2404.4
12.5°	2386.9	2394.4	2412.5	2448.2	2493.2	2511.5	2498.6	2465.0	2434.7	2413.2	2409.8
15°	2358.0	2366.1	2393.7	2447.5	2514.1	2556.5	2555.1	2510.7	2462.3	2428.6	2423.3
17.5°	2312.9	2321.0	2360.7	2436.0	2530.2	2600.2	2619.1	2573.3	2505.3	2460.3	2452.9
20°	2231.5	2238.9	2294.2	2399.7	2535.6	2646.7	2695.7	2655.4	2570.6	2509.4	2497.9
22.5°	2126.0	2137.3	2201.9	2337.2	2522.8	2695.0	2783.2	2755.6	2646.7	2561.9	2546.4
25°	2012.9	2025.0	2100.3	2260.4	2489.9	2730.1	2886.8	2869.3	2732.8	2627.1	2605.5
27.5°	1915.3	1928.1	2010.2	2184.5	2438.8	2743.5	2989.1	2997.8	2837.0	2699.1	2676.3
30°	1838.6	1850.7	1938.2	2123.2	2372.8	2730.1	3078.6	3139.1	2943.3	2761.7	2728.8
32.5°	1754.6	1770.1	1862.2	2048.6	2294.8	2697.8	3156.6	3291.8	3066.4	2829.0	2787.3
35°	1648.3	1662.3	1759.3	1946.3	2192.5	2645.9	3221.9	3461.3	3242.7	2931.2	2884.8
37.5°	1519.0	1532.6	1628.7	1818.5	2090.9	2573.3	3271.6	3652.4	3452.6	3078.6	3016.7
40°	1389.3	1402.0	1492.2	1675.9	1969.1	2480.5	3289.1	3839.4	3693.5	3281.0	3215.1
42.5°	1270.2	1281.6	1364.4	1535.2	1832.6	2362.0	3266.3	4002.2	3909.5	3422.4	3337.6
45°	1160.5	1170.6	1243.9	1403.3	1690.6	2218.1	3197.6	4177.2	4166.4	3523.2	3408.8
47.5°	1035.4	1045.5	1121.5	1275.5	1548.7	2049.2	3081.3	4349.4	4523.6	3752.0	3620.1
50°	882.6	891.4	969.4	1128.2	1401.4	1869.6	2919.8	4484.6	4974.4	4098.5	3932.9
52.5°	701.7	711.1	787.1	945.9	1226.4	1676.5	2707.2	4572.7	5495.1	4604.4	4400.5
55°	522.0	528.8	594.7	737.4	1009.8	1456.5	2440.7	4597.6	6085.7	5296.0	5041.0
57.5°	378.7	382.8	425.2	531.5	765.6	1181.4	2117.1	4533.1	6788.8	6182.7	5861.8
60°	306.8	308.1	320.9	368.0	532.2	870.5	1726.3	4311.0	7551.7	7325.7	6921.3
62.5°	278.5	278.5	281.9	294.7	359.9	574.5	1253.4	3850.8	8369.8	8770.1	8228.5
65°	259.0	259.0	260.3	266.4	283.9	366.0	791.2	3101.4	9059.4	10462.1	9777.2
67.5°	241.5	242.2	241.5	243.5	253.6	270.5	458.8	2142.0	9430.7	12215.3	11475.9
70°	223.3	224.7	221.3	221.3	229.4	230.1	287.3	1174.6	9122.6	13684.6	13490.1
72.5°	201.8	203.9	198.4	197.1	203.2	200.5	216.0	563.8	7832.2	14123.3	14634.5
75°	183.0	185.7	173.5	170.3	170.3	168.2	175.6	289.3	5083.4	11521.0	12323.0
77.5°	166.2	171.6	152.0	141.2	138.6	132.5	143.3	176.9	2223.4	5409.0	5296.6
80°	137.2	144.6	125.2	112.3	107.6	101.0	113.1	123.8	661.3	1256.0	1202.9
82.5°	102.3	105.6	88.8	80.1	76.1	71.3	84.8	86.1	215.2	444.6	502.6
85°	65.3	66.6	54.5	47.0	45.1	43.0	53.8	47.0	82.1	327.0	475.0
87.5°	22.9	26.2	20.8	18.9	20.2	16.8	24.9	14.1	22.9	230.7	285.9
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)