

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: P962365

Luminaire Tested: **NAV-SB2C-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962365
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-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12545 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

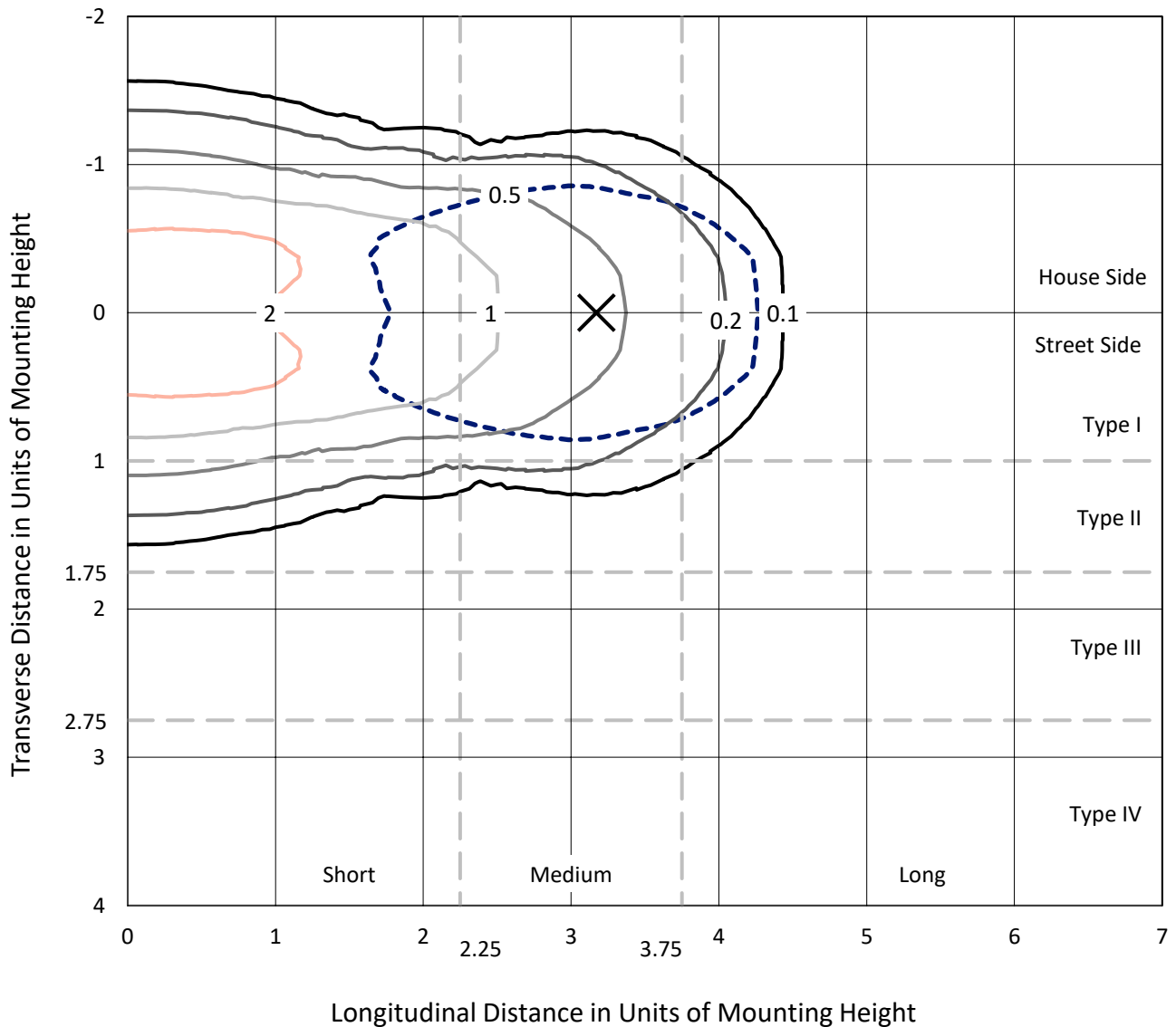
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P962365
 CATALOG NUMBER: NAV-SB2C-722-U-T1

Iso-Footcandle Lines of Horizontal Illumination

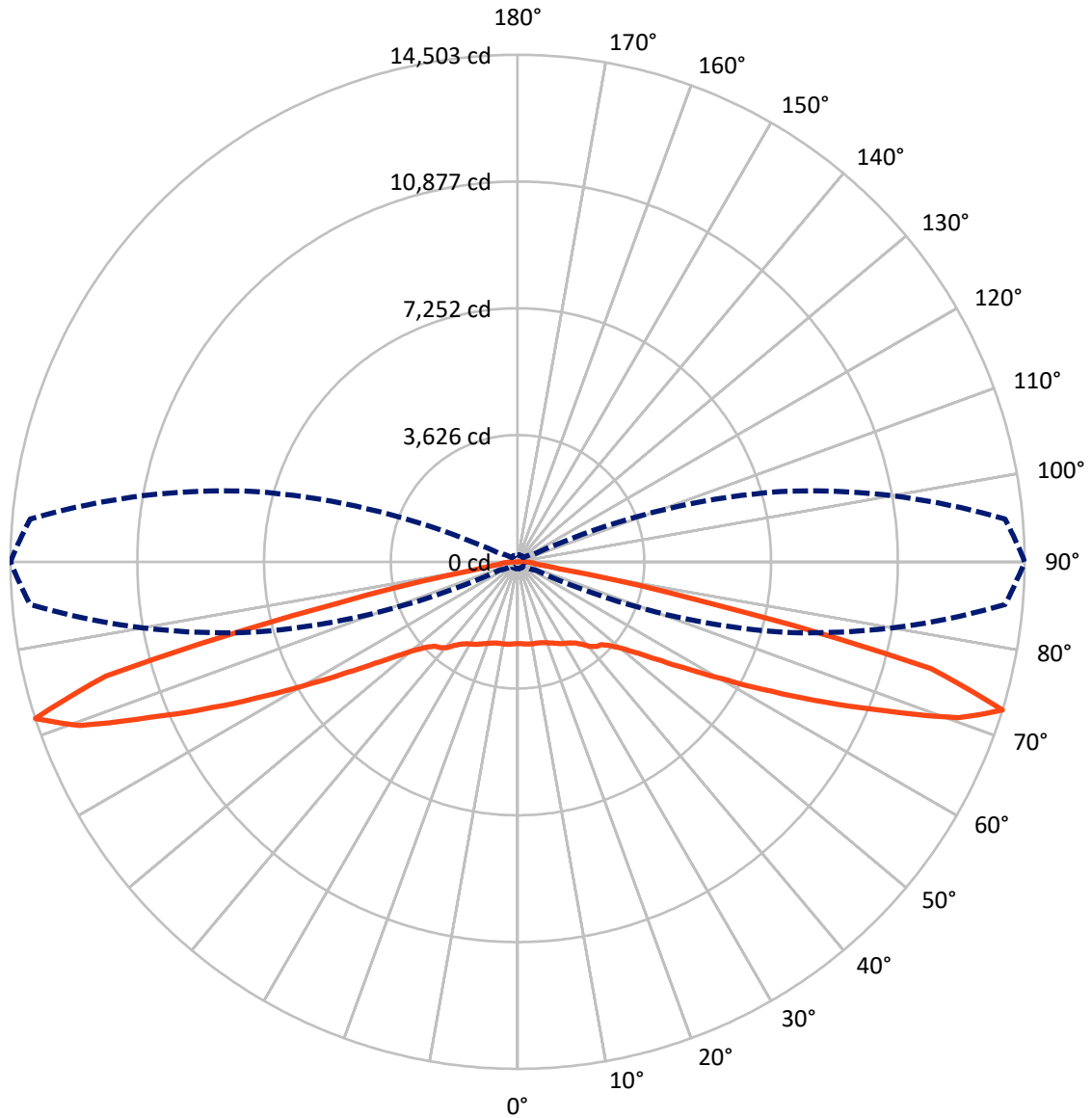
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type I - Short - N/A

REPORT NUMBER: P962365
CATALOG NUMBER: NAV-SB2C-722-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P962365
 CATALOG NUMBER: NAV-SB2C-722-U-T1

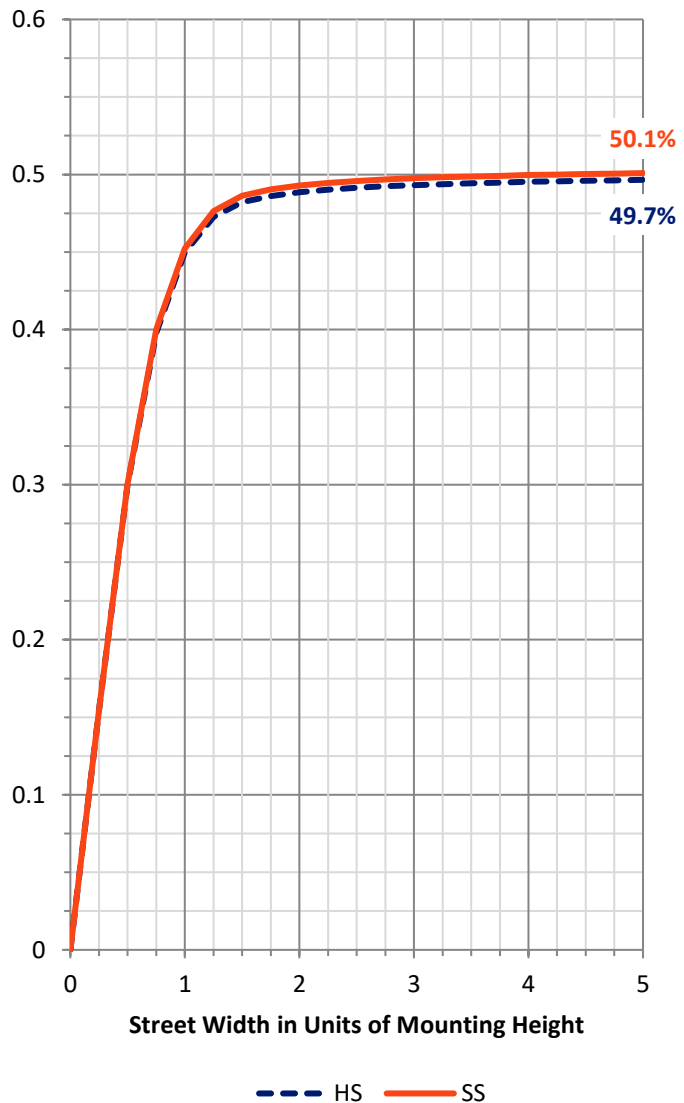
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6272.5	0.0	6272.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6272.5	0.0	6272.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12545.0	0.0	12545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.3	1.8
10°-20°	695.0	5.5
20°-30°	1158.8	9.2
30°-40°	1593.7	12.7
40°-50°	1946.4	15.5
50°-60°	2251.2	17.9
60°-70°	2684.2	21.4
70°-80°	1873.4	14.9
80°-90°	115.1	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°	12545.0	100.0
0°-180°	12545.0	100.0

Coefficient of Utilization



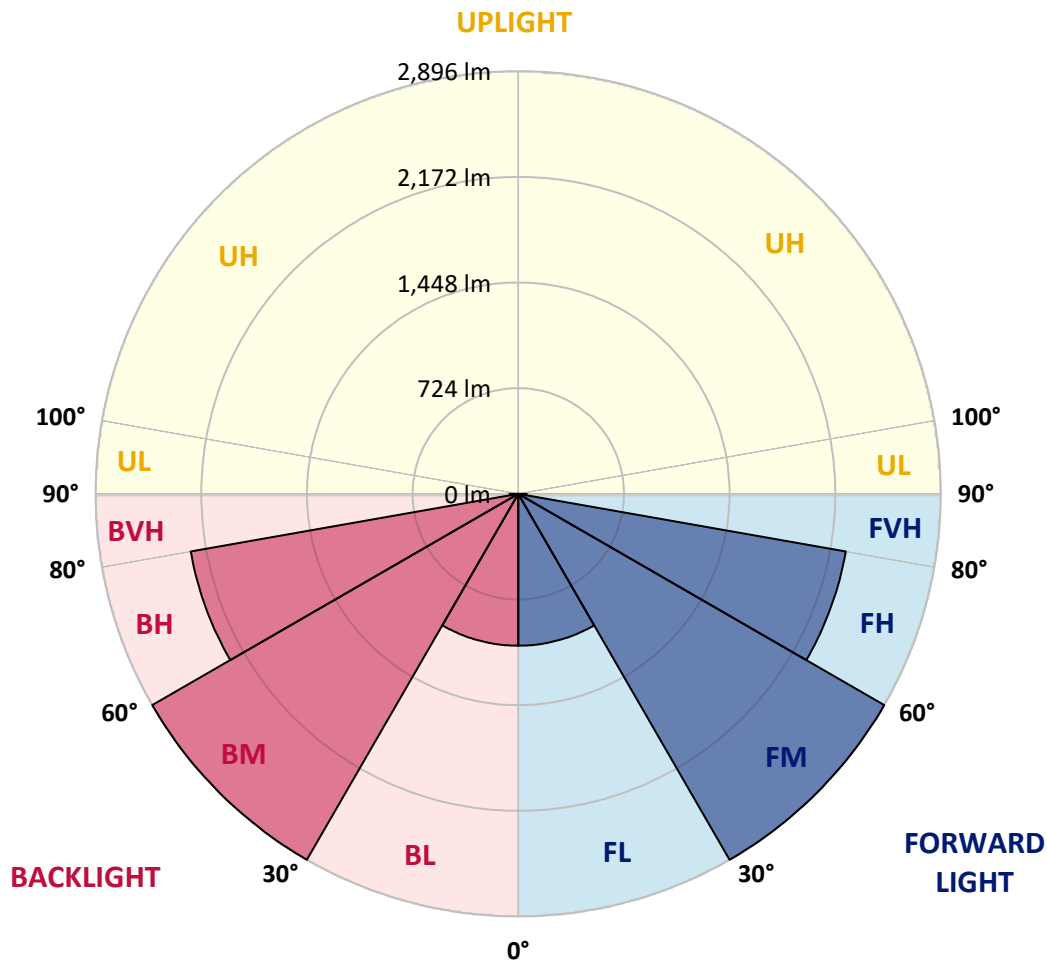
REPORT NUMBER: P962365
 CATALOG NUMBER: NAV-SB2C-722-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1040.5	8.3			
FM (30°-60°)	2895.6	23.1			
FH (60°-80°)	2278.8	18.2			G2/5000
FVH (80°-90°)	57.5	0.5			G1/100
BL (0°-30°)	1040.5	8.3	B3/2500		
BM (30°-60°)	2895.6	23.1	B3/5000		
BH (60°-80°)	2278.8	18.2	B3/2500		G3/2500
BVH (80°-90°)	57.5	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



REPORT NUMBER: P962365
 CATALOG NUMBER: NAV-SB2C-722-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2
2.5°	2346.1	2348.8	2348.8	2346.8	2351.5	2347.5	2347.5	2345.5	2347.5	2345.5	2345.5
5°	2358.1	2361.5	2362.8	2362.1	2368.2	2364.9	2364.9	2362.1	2362.8	2360.8	2360.8
7.5°	2380.9	2385.5	2388.1	2391.5	2400.1	2396.1	2393.5	2385.5	2382.2	2376.9	2376.9
10°	2388.1	2393.5	2402.2	2419.5	2439.5	2440.2	2432.1	2412.1	2396.9	2384.9	2382.8
12.5°	2365.5	2372.9	2390.8	2426.2	2470.9	2488.8	2476.2	2442.9	2412.8	2391.5	2388.1
15°	2336.8	2344.8	2372.2	2425.5	2491.5	2533.5	2532.2	2488.2	2440.2	2406.8	2401.5
17.5°	2292.2	2300.2	2339.5	2414.2	2507.5	2576.8	2595.5	2550.2	2482.9	2438.2	2430.8
20°	2211.4	2218.8	2273.4	2378.2	2512.9	2622.9	2671.6	2631.5	2547.5	2486.9	2475.5
22.5°	2106.8	2118.2	2182.1	2316.2	2500.2	2670.8	2758.2	2730.8	2622.9	2538.8	2523.5
25°	1994.8	2006.8	2081.5	2240.1	2467.5	2705.5	2860.9	2843.6	2708.2	2603.5	2582.2
27.5°	1898.1	1910.8	1992.1	2164.8	2416.8	2718.8	2962.2	2970.9	2811.6	2674.8	2652.2
30°	1822.1	1834.1	1920.7	2104.1	2351.5	2705.5	3050.9	3110.9	2916.8	2736.9	2704.2
32.5°	1738.8	1754.1	1845.4	2030.1	2274.2	2673.5	3128.2	3262.3	3038.9	2803.5	2762.2
35°	1633.4	1647.5	1743.4	1928.8	2172.8	2622.2	3192.9	3430.3	3213.6	2904.8	2858.8
37.5°	1505.4	1518.7	1614.1	1802.2	2072.1	2550.2	3242.2	3619.6	3421.6	3050.9	2989.5
40°	1376.8	1389.4	1478.8	1660.8	1951.5	2458.2	3259.6	3804.9	3660.3	3251.6	3186.2
42.5°	1258.8	1270.1	1352.1	1521.4	1816.1	2340.8	3236.8	3966.2	3874.3	3391.5	3307.6
45°	1150.0	1160.1	1232.8	1390.7	1675.5	2198.1	3168.9	4139.7	4128.9	3491.6	3378.2
47.5°	1026.0	1036.1	1111.4	1264.1	1534.7	2030.8	3053.6	4310.3	4482.9	3718.3	3587.6
50°	874.7	883.3	960.7	1118.1	1388.8	1852.8	2893.6	4444.3	4929.6	4061.6	3897.6
52.5°	695.4	704.7	780.0	937.4	1215.4	1661.4	2682.8	4531.6	5445.7	4563.0	4361.0
55°	517.4	524.1	589.4	730.7	1000.7	1443.4	2418.8	4556.3	6031.1	5248.4	4995.6
57.5°	375.4	379.4	421.4	526.7	758.7	1170.8	2098.2	4492.3	6727.8	6127.0	5809.1
60°	304.0	305.3	318.1	364.7	527.4	862.7	1710.8	4272.3	7483.8	7259.9	6859.1
62.5°	276.0	276.0	279.3	292.0	356.7	569.4	1242.1	3816.3	8294.6	8691.3	8154.6
65°	256.7	256.7	258.0	264.0	281.4	362.6	784.0	3073.6	8978.0	10368.1	9689.3
67.5°	239.3	240.1	239.3	241.4	251.3	268.0	454.7	2122.8	9345.9	12105.5	11372.8
70°	221.3	222.7	219.4	219.4	227.3	228.1	284.6	1164.1	9040.6	13561.6	13368.9
72.5°	200.0	202.0	196.7	195.4	201.3	198.6	214.0	558.7	7761.9	13996.3	14503.0
75°	181.3	184.0	172.0	168.7	168.7	166.7	174.0	286.7	5037.7	11417.5	12212.2
77.5°	164.7	170.0	150.7	140.0	137.4	131.3	142.0	175.4	2203.4	5360.3	5249.0
80°	136.0	143.3	124.0	111.3	106.7	100.0	112.0	122.7	655.4	1244.8	1192.1
82.5°	101.4	104.7	88.0	79.3	75.3	70.6	84.0	85.4	213.3	440.6	498.0
85°	64.7	66.0	54.0	46.6	44.7	42.6	53.3	46.6	81.4	324.0	470.7
87.5°	22.7	26.0	20.7	18.7	20.0	16.7	24.7	14.0	22.7	228.7	283.3
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)