

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: P961297

Luminaire Tested: **NAV-SB2A-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7683.4 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

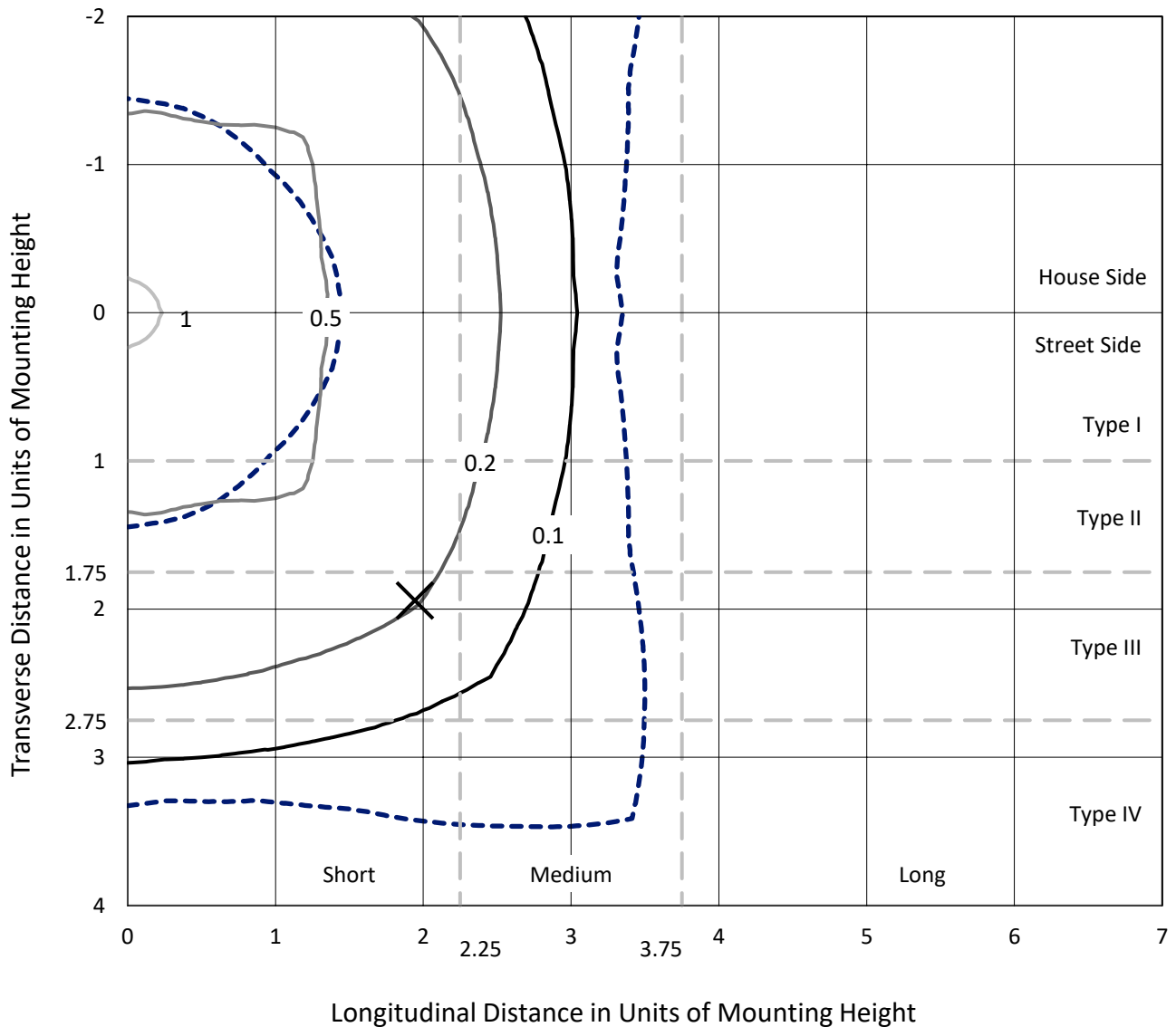
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961297
 CATALOG NUMBER: NAV-SB2A-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

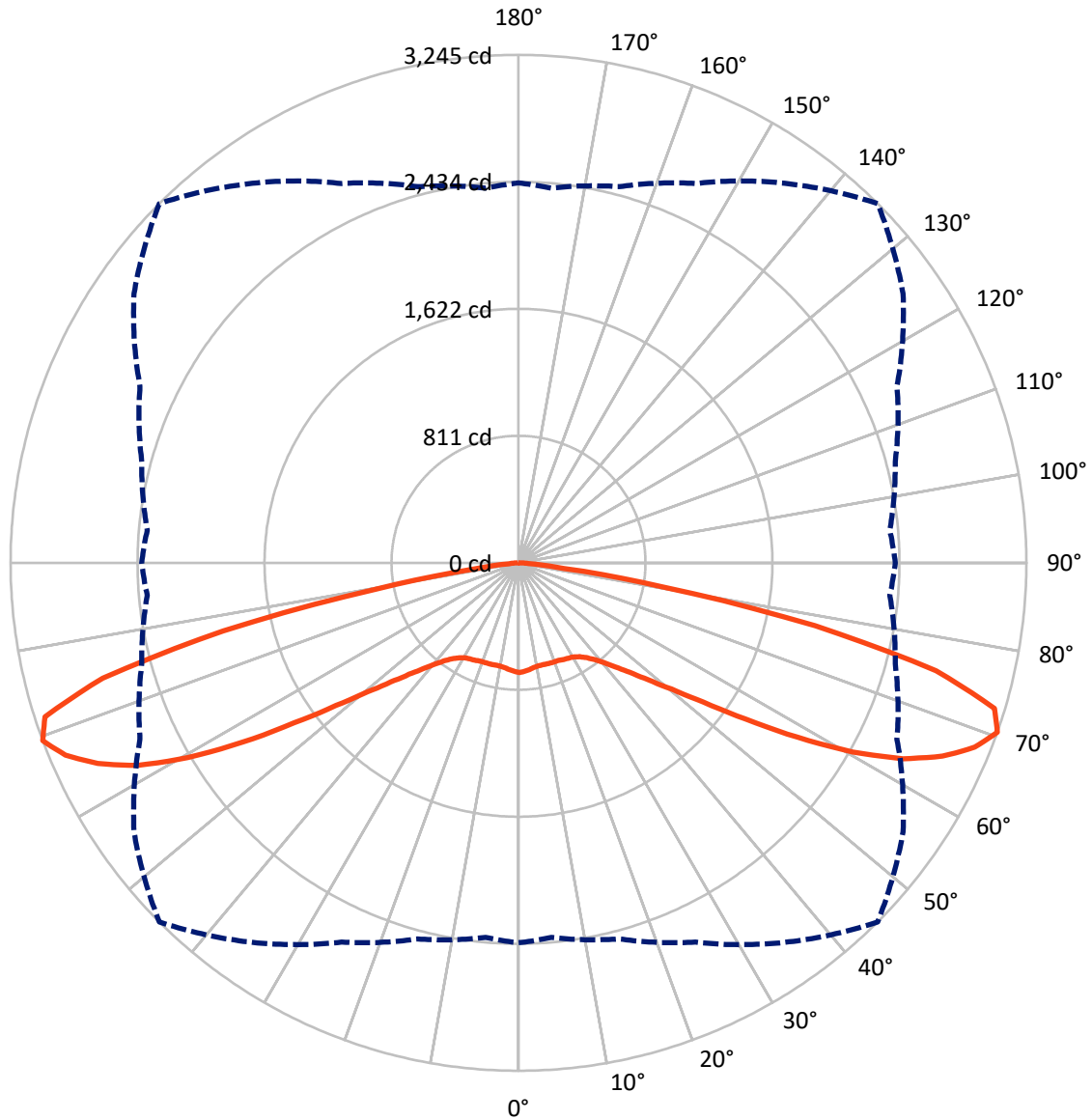
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

REPORT NUMBER: P961297
CATALOG NUMBER: NAV-SB2A-722-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P961297
 CATALOG NUMBER: NAV-SB2A-722-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3841.7	0.0	3841.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3841.7	0.0	3841.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	7683.4	0.0	7683.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	0.8
10°-20°	191.4	2.5
20°-30°	318.6	4.1
30°-40°	481.8	6.3
40°-50°	800.6	10.4
50°-60°	1510.7	19.7
60°-70°	2551.0	33.2
70°-80°	1676.2	21.8
80°-90°	87.8	1.1
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°	7683.4	100.0
0°-180°	7683.4	100.0

Coefficient of Utilization



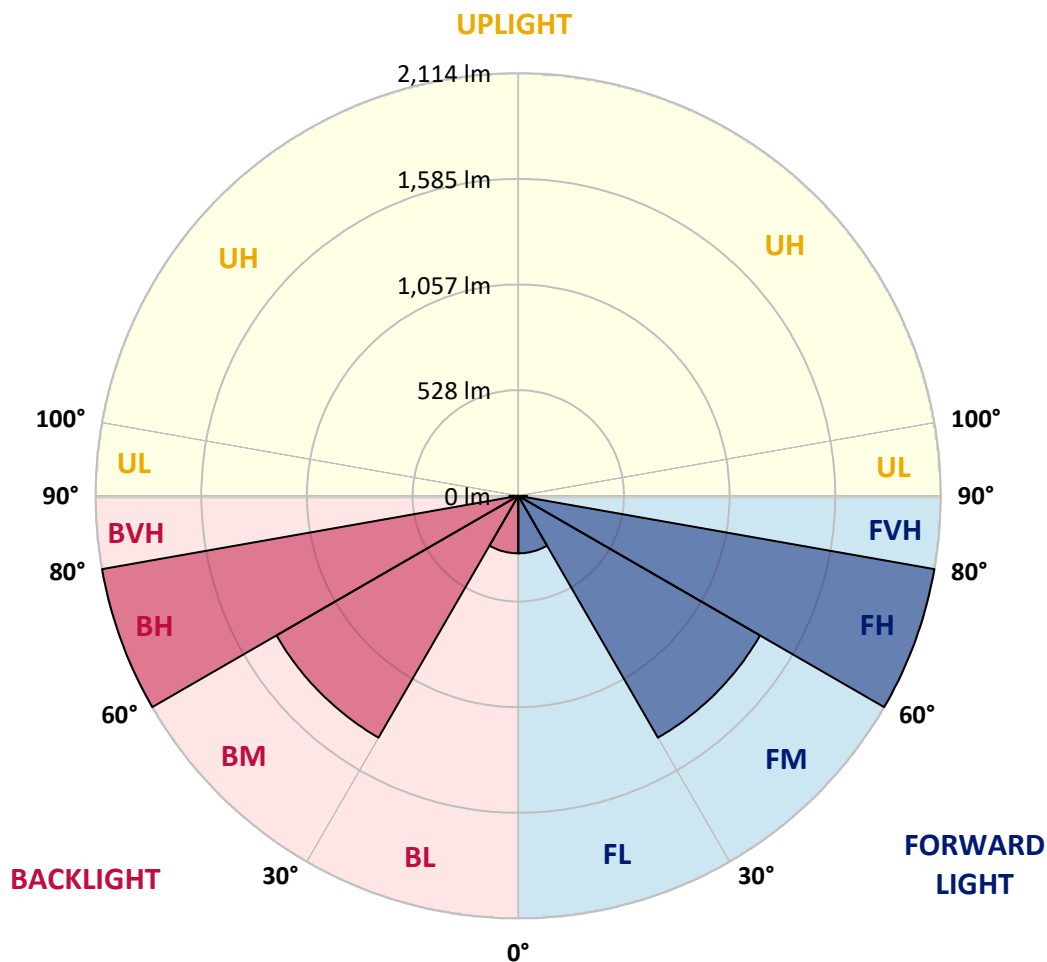
REPORT NUMBER: P961297
 CATALOG NUMBER: NAV-SB2A-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.6	3.7			
FM (30°-60°)	1396.6	18.2			
FH (60°-80°)	2113.6	27.5			G2/5000
FVH (80°-90°)	43.9	0.6			G1/100
BL (0°-30°)	287.6	3.7	B1/500		
BM (30°-60°)	1396.6	18.2	B2/2500		
BH (60°-80°)	2113.6	27.5	B3/2500		G2/5000
BVH (80°-90°)	43.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



REPORT NUMBER: P961297
 CATALOG NUMBER: NAV-SB2A-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	700.9	700.9	700.9	700.9	700.9	700.9	700.9	700.9	700.9	700.9	700.9
2.5°	696.5	698.4	697.7	696.1	696.1	694.8	696.1	696.9	698.1	698.8	698.4
5°	687.3	688.9	688.5	687.3	687.7	686.5	687.3	688.5	689.3	689.7	689.7
7.5°	679.3	680.9	680.1	678.1	678.1	676.9	677.3	678.6	679.7	680.1	680.1
10°	677.3	679.0	676.5	673.3	672.1	670.6	671.0	672.1	674.6	675.7	675.7
12.5°	678.1	679.3	676.9	672.1	671.0	669.3	669.3	670.6	673.7	675.4	675.7
15°	680.5	681.7	678.1	672.9	671.7	670.6	670.1	671.7	675.4	678.1	678.6
17.5°	684.9	686.1	680.5	673.3	671.7	672.1	671.7	672.9	678.6	683.7	683.7
20°	688.9	689.7	682.1	673.3	671.7	672.1	671.7	674.1	681.3	688.5	688.9
22.5°	690.1	690.8	683.7	676.1	675.0	675.4	675.0	677.3	684.1	691.3	691.3
25°	690.5	691.7	686.1	680.1	682.1	683.0	682.1	682.5	687.7	694.1	693.7
27.5°	696.5	698.1	692.9	687.7	688.9	688.5	689.7	690.8	694.8	701.3	699.7
30°	708.9	710.0	705.7	700.5	699.7	696.9	700.5	704.5	708.9	714.4	713.3
32.5°	729.2	731.6	726.0	720.5	716.9	715.2	718.0	724.9	730.8	736.9	734.4
35°	763.2	764.8	759.6	749.2	742.8	742.8	745.2	754.0	763.6	771.2	768.3
37.5°	811.1	813.1	803.9	791.5	782.0	782.0	785.2	794.4	808.7	819.5	815.5
40°	869.4	872.2	860.6	847.9	838.7	837.0	841.0	851.5	865.0	878.6	874.2
42.5°	939.7	942.9	927.7	916.6	909.4	909.4	911.3	921.0	933.3	950.1	948.8
45°	1029.5	1035.1	1014.3	1003.2	996.4	998.0	999.2	1007.6	1018.7	1037.9	1037.1
47.5°	1136.6	1142.2	1120.2	1108.6	1107.4	1115.0	1110.2	1116.2	1122.2	1144.2	1137.8
50°	1258.0	1267.6	1252.4	1251.6	1254.0	1267.9	1256.8	1260.0	1253.2	1267.2	1258.8
52.5°	1406.5	1420.5	1417.8	1422.5	1449.2	1478.0	1452.5	1441.3	1415.7	1420.1	1405.4
55°	1586.7	1607.8	1611.8	1640.6	1701.3	1760.0	1705.7	1660.5	1606.3	1596.2	1580.7
57.5°	1791.5	1808.3	1827.5	1886.2	1999.6	2103.8	1999.6	1899.7	1814.4	1794.0	1779.6
60°	2012.0	2032.8	2051.1	2137.7	2306.4	2452.9	2303.1	2144.6	2031.5	2004.0	1980.0
62.5°	2248.8	2275.6	2288.3	2384.6	2581.1	2756.0	2583.9	2391.7	2266.4	2236.9	2212.9
65°	2476.1	2498.0	2512.4	2615.0	2802.8	2978.0	2815.5	2626.3	2497.2	2458.5	2439.3
67.5°	2581.9	2593.9	2629.0	2745.3	2943.3	3143.4	2976.8	2757.6	2613.4	2545.5	2546.3
70°	2426.9	2402.6	2487.3	2673.3	2960.1	3244.8	2998.4	2667.8	2491.3	2381.0	2407.3
72.5°	1875.4	1833.5	1980.4	2298.8	2768.4	3180.2	2787.6	2316.7	2071.9	1848.3	1903.7
75°	1020.4	972.8	1175.7	1578.3	2207.6	2756.4	2258.4	1623.4	1309.1	1012.8	1078.7
77.5°	287.9	270.0	433.7	763.6	1327.9	1935.3	1379.0	780.3	514.3	305.1	339.1
80°	88.3	85.5	115.8	230.0	563.9	926.9	541.9	232.8	147.4	93.1	98.2
82.5°	52.3	48.0	57.5	83.8	143.8	291.1	139.8	87.4	70.3	47.2	51.1
85°	29.9	28.0	33.9	40.7	48.3	61.9	40.4	41.5	37.5	25.1	26.3
87.5°	12.4	11.2	13.2	12.8	11.2	14.3	10.8	12.8	15.2	9.9	9.2
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)