

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: P960243

Luminaire Tested: **NAV-SB1C-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960243
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-SB1C-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6416.5 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

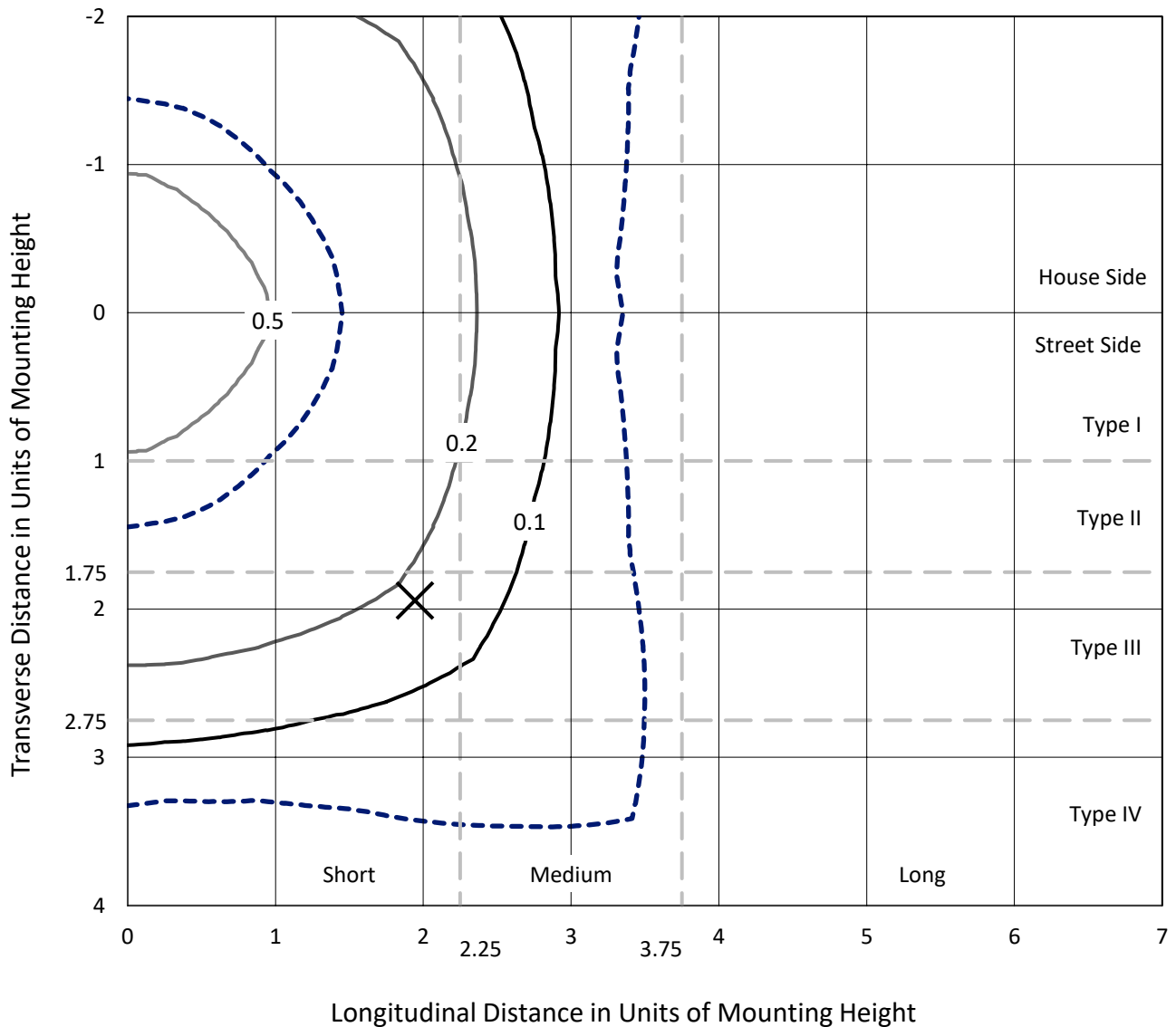
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

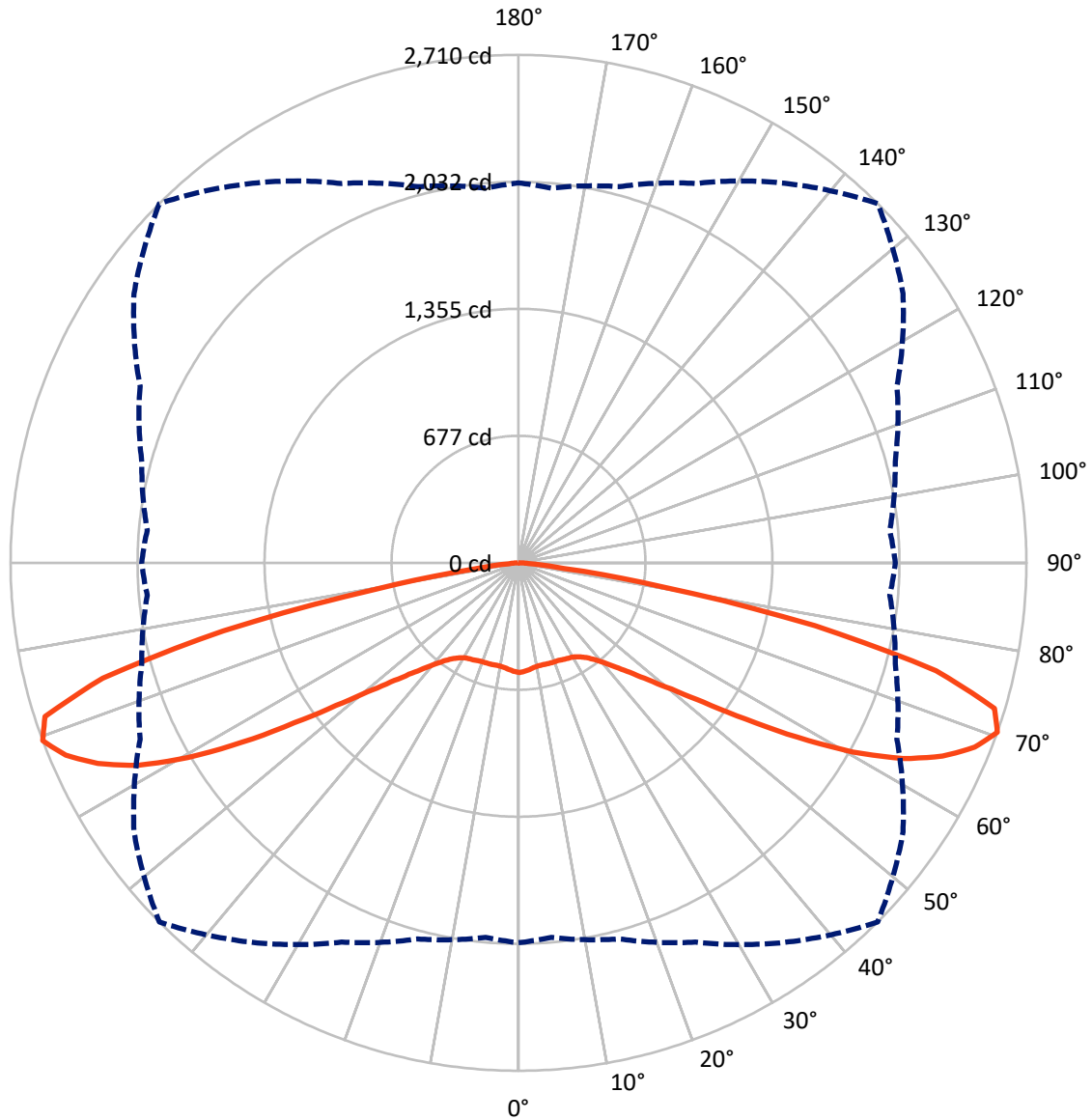
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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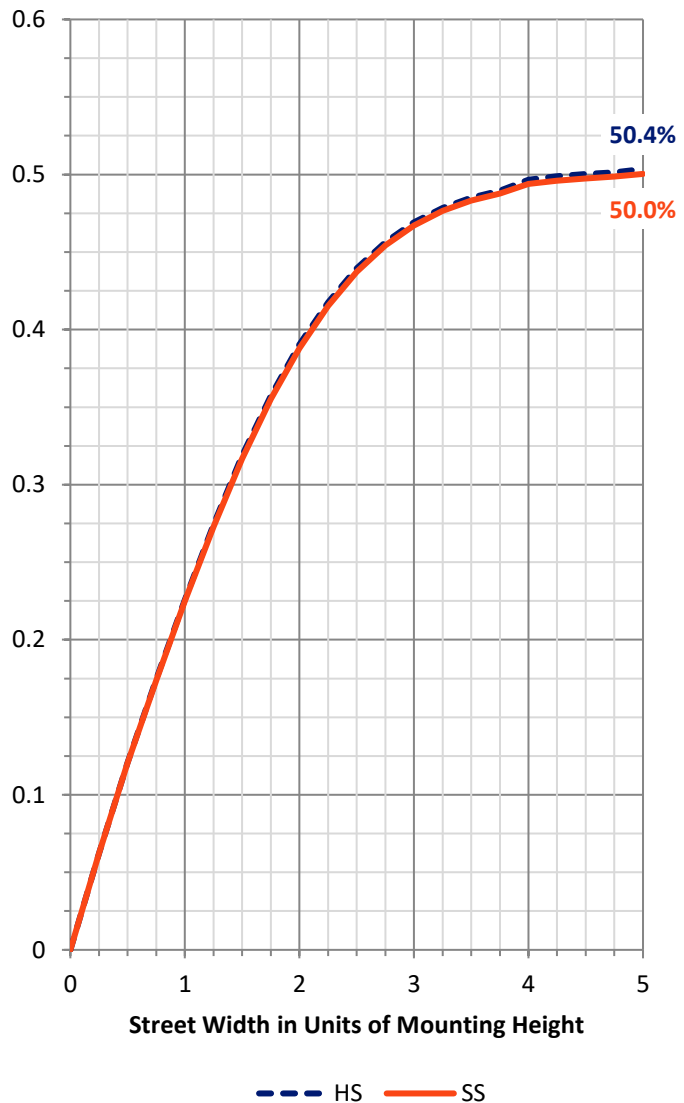
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3208.2	0.0	3208.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3208.2	0.0	3208.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	6416.5	0.0	6416.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	0.8
10°-20°	159.9	2.5
20°-30°	266.1	4.1
30°-40°	402.4	6.3
40°-50°	668.6	10.4
50°-60°	1261.6	19.7
60°-70°	2130.3	33.2
70°-80°	1399.8	21.8
80°-90°	73.3	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°	6416.5	100.0
0°-180°	6416.5	100.0

Coefficient of Utilization



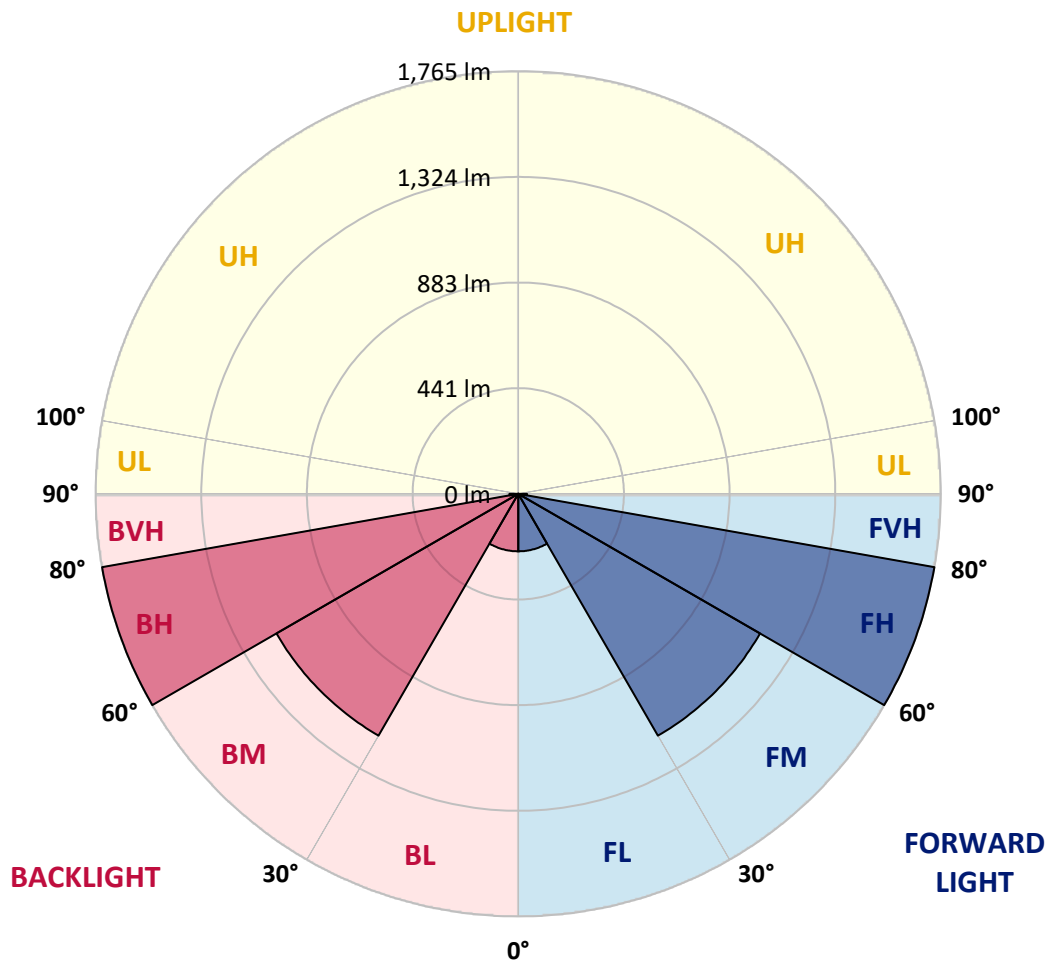
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	240.2	3.7			
FM (30°-60°)	1166.3	18.2			
FH (60°-80°)	1765.1	27.5			G1/1800
FVH (80°-90°)	36.7	0.6			G1/100
BL (0°-30°)	240.2	3.7	B1/500		
BM (30°-60°)	1166.3	18.2	B2/2500		
BH (60°-80°)	1765.1	27.5	B3/2500		G1/1800
BVH (80°-90°)	36.7	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	581.7	583.3	582.6	581.3	581.3	580.4	581.3	582.0	583.0	583.6	583.3
5°	574.0	575.3	575.0	574.0	574.3	573.3	574.0	575.0	575.6	575.9	575.9
7.5°	567.3	568.7	568.0	566.3	566.3	565.3	565.6	566.6	567.6	568.0	568.0
10°	565.6	566.9	565.0	562.3	561.3	560.0	560.3	561.3	563.3	564.3	564.3
12.5°	566.3	567.3	565.3	561.3	560.3	558.9	558.9	560.0	562.6	564.0	564.3
15°	568.3	569.3	566.3	562.0	561.0	560.0	559.6	561.0	564.0	566.3	566.6
17.5°	571.9	573.0	568.3	562.3	561.0	561.3	561.0	562.0	566.6	570.9	570.9
20°	575.3	575.9	569.6	562.3	561.0	561.3	561.0	562.9	569.0	575.0	575.3
22.5°	576.4	577.0	570.9	564.7	563.6	564.0	563.6	565.6	571.3	577.3	577.3
25°	576.7	577.7	573.0	568.0	569.6	570.3	569.6	570.0	574.3	579.6	579.3
27.5°	581.7	583.0	578.6	574.3	575.3	575.0	575.9	577.0	580.4	585.7	584.4
30°	591.9	593.0	589.3	585.0	584.4	582.0	585.0	588.3	591.9	596.7	595.6
32.5°	609.0	611.0	606.3	601.7	598.7	597.4	599.6	605.4	610.3	615.3	613.4
35°	637.3	638.7	634.4	625.7	620.3	620.3	622.4	629.7	637.7	644.0	641.6
37.5°	677.3	679.1	671.4	661.0	653.0	653.0	655.7	663.4	675.4	684.4	681.0
40°	726.0	728.4	718.7	708.1	700.4	699.0	702.3	711.0	722.4	733.7	730.1
42.5°	784.7	787.4	774.8	765.4	759.4	759.4	761.1	769.1	779.4	793.5	792.4
45°	859.8	864.5	847.2	837.7	832.1	833.4	834.5	841.4	850.7	866.8	866.1
47.5°	949.1	953.9	935.5	925.8	924.9	931.2	927.2	932.1	937.2	955.5	950.2
50°	1050.5	1058.5	1045.9	1045.2	1047.2	1058.9	1049.6	1052.3	1046.5	1058.2	1051.2
52.5°	1174.6	1186.3	1184.0	1188.0	1210.3	1234.3	1213.0	1203.7	1182.3	1185.9	1173.6
55°	1325.0	1342.7	1346.0	1370.1	1420.8	1469.7	1424.4	1386.7	1341.4	1333.0	1320.0
57.5°	1496.1	1510.1	1526.1	1575.2	1669.9	1757.0	1669.9	1586.5	1515.2	1498.1	1486.1
60°	1680.3	1697.6	1712.9	1785.2	1926.1	2048.5	1923.4	1791.0	1696.6	1673.5	1653.5
62.5°	1878.0	1900.4	1911.0	1991.4	2155.5	2301.5	2157.8	1997.4	1892.7	1868.0	1848.0
65°	2067.7	2086.1	2098.2	2183.9	2340.6	2487.0	2351.2	2193.2	2085.5	2053.1	2037.1
67.5°	2156.2	2166.1	2195.5	2292.5	2458.0	2625.0	2486.0	2302.9	2182.5	2125.8	2126.5
70°	2026.7	2006.4	2077.2	2232.6	2472.0	2709.8	2504.0	2227.8	2080.4	1988.4	2010.4
72.5°	1566.2	1531.1	1653.8	1919.7	2311.9	2655.8	2327.9	1934.7	1730.3	1543.4	1589.9
75°	852.1	812.4	981.8	1318.0	1843.7	2301.9	1886.0	1355.8	1093.3	845.8	900.8
77.5°	240.5	225.5	362.2	637.7	1108.9	1616.2	1151.6	651.7	429.6	254.8	283.1
80°	73.7	71.3	96.8	192.1	470.9	774.1	452.5	194.4	123.1	77.7	82.0
82.5°	43.7	40.0	48.1	70.0	120.0	243.1	116.7	73.1	58.7	39.4	42.6
85°	25.0	23.4	28.4	34.0	40.4	51.7	33.7	34.6	31.4	21.0	22.0
87.5°	10.4	9.3	11.0	10.7	9.3	12.0	9.0	10.7	12.7	8.3	7.7
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)