

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: P960770

Luminaire Tested: **NAV-SB1D-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960770
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-SB1D-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8718.6 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

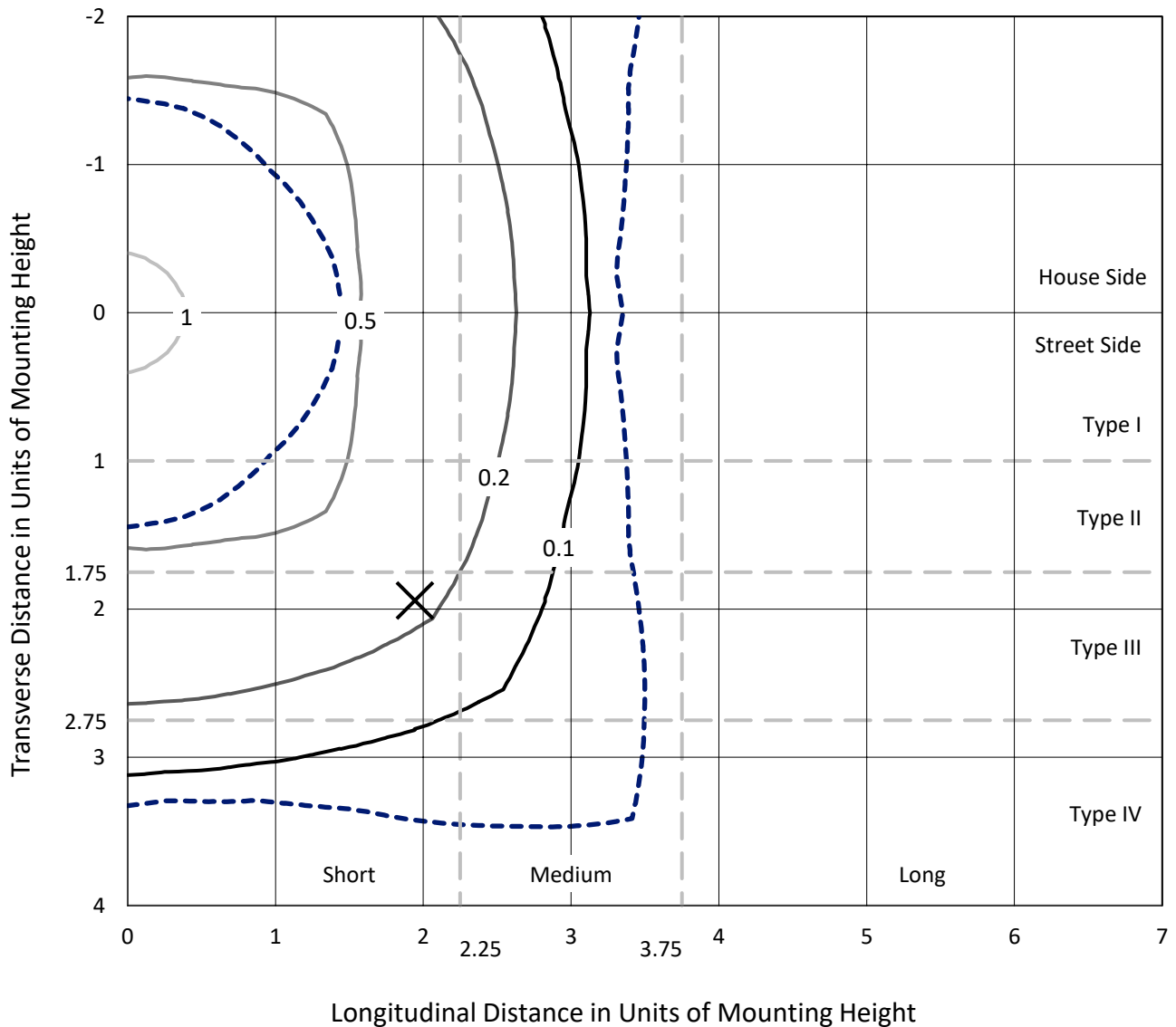
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

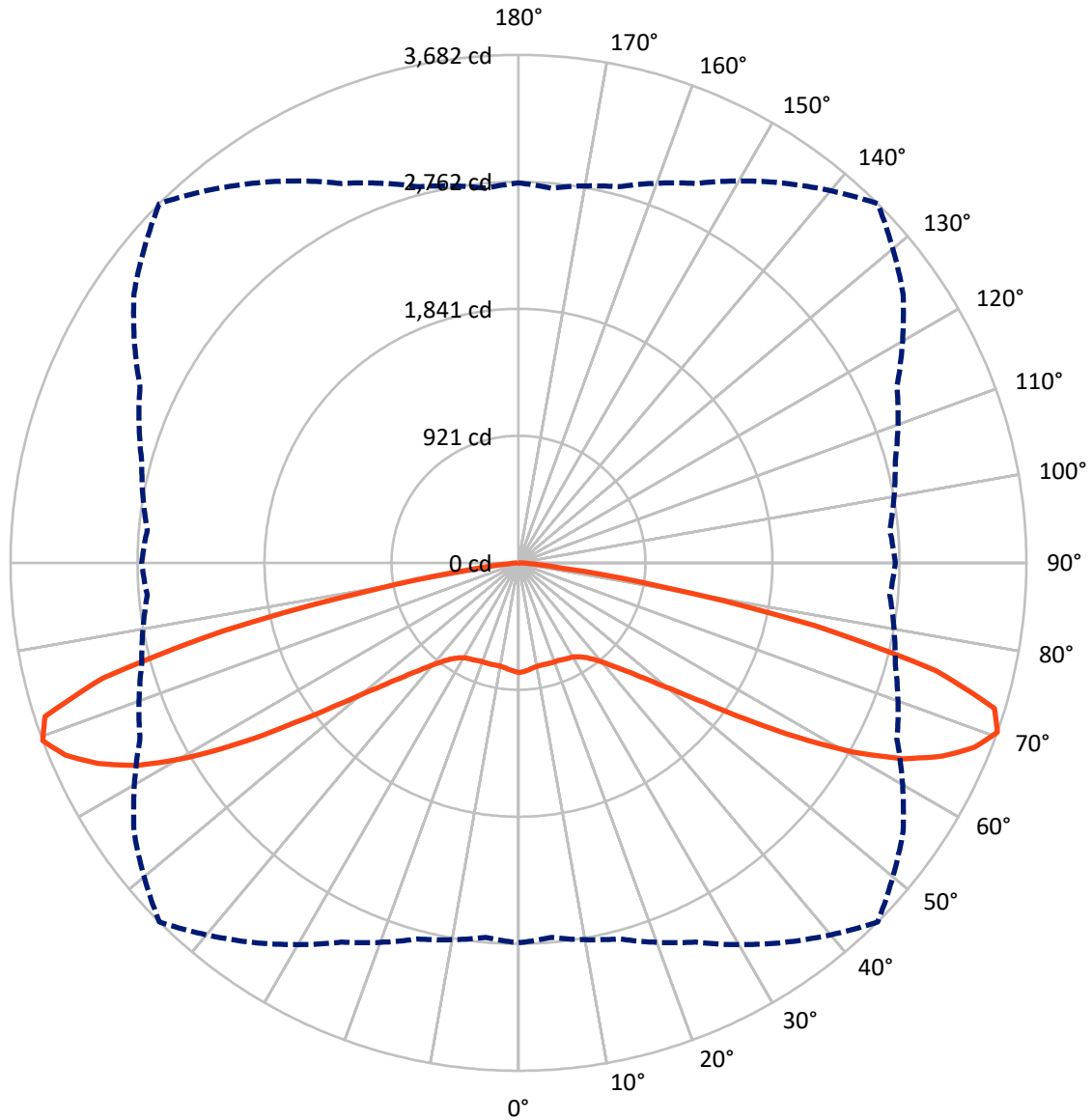
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	4359.3	0.0	4359.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4359.3	0.0	4359.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8718.6	0.0	8718.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	0.8
10°-20°	217.2	2.5
20°-30°	361.5	4.1
30°-40°	546.7	6.3
40°-50°	908.5	10.4
50°-60°	1714.3	19.7
60°-70°	2894.7	33.2
70°-80°	1902.1	21.8
80°-90°	99.7	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°	8718.6	100.0
0°-180°	8718.6	100.0

Coefficient of Utilization



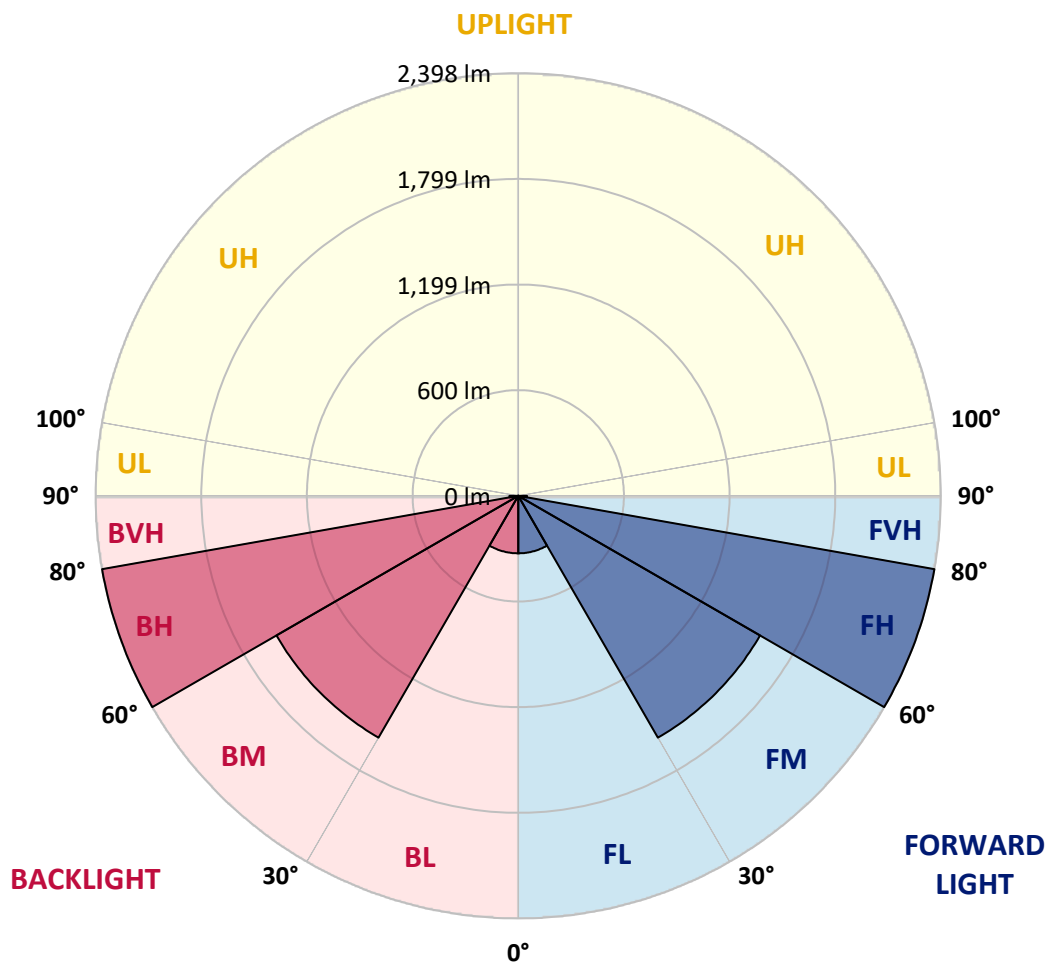
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.4	3.7			
FM (30°-60°)	1584.8	18.2			
FH (60°-80°)	2398.4	27.5			G2/5000
FVH (80°-90°)	49.8	0.6			G1/100
BL (0°-30°)	326.4	3.7	B1/500		
BM (30°-60°)	1584.8	18.2	B2/2500		
BH (60°-80°)	2398.4	27.5	B3/2500		G2/5000
BVH (80°-90°)	49.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	795.3	795.3	795.3	795.3	795.3	795.3	795.3	795.3	795.3	795.3	795.3
2.5°	790.4	792.6	791.7	789.9	789.9	788.5	789.9	790.8	792.1	793.0	792.6
5°	779.9	781.8	781.3	779.9	780.3	779.0	779.9	781.3	782.2	782.6	782.6
7.5°	770.8	772.6	771.7	769.5	769.5	768.1	768.5	770.0	771.3	771.7	771.7
10°	768.5	770.4	767.6	764.0	762.7	760.9	761.4	762.7	765.4	766.8	766.8
12.5°	769.5	770.8	768.1	762.7	761.4	759.5	759.5	760.9	764.5	766.3	766.8
15°	772.2	773.6	769.5	763.6	762.2	760.9	760.4	762.2	766.3	769.5	770.0
17.5°	777.2	778.6	772.2	764.0	762.2	762.7	762.2	763.6	770.0	775.8	775.8
20°	781.8	782.6	774.0	764.0	762.2	762.7	762.2	765.0	773.2	781.3	781.8
22.5°	783.1	784.0	775.8	767.2	765.9	766.3	765.9	768.5	776.2	784.4	784.4
25°	783.5	784.8	778.6	771.7	774.0	774.9	774.0	774.5	780.3	787.6	787.2
27.5°	790.4	792.1	786.3	780.3	781.8	781.3	782.6	784.0	788.5	795.8	794.0
30°	804.4	805.8	800.7	794.9	794.0	790.8	794.9	799.4	804.4	810.8	809.3
32.5°	827.5	830.2	823.9	817.5	813.4	811.6	814.8	822.5	829.3	836.1	833.4
35°	866.0	867.9	861.9	850.1	842.9	842.9	845.6	855.6	866.4	875.0	871.9
37.5°	920.3	922.7	912.2	898.2	887.3	887.3	890.9	901.4	917.7	929.9	925.4
40°	986.6	989.7	976.6	962.1	951.6	949.9	954.4	966.2	981.5	997.0	992.0
42.5°	1066.3	1069.9	1052.7	1040.1	1031.9	1031.9	1034.1	1045.0	1059.0	1078.1	1076.8
45°	1168.3	1174.6	1151.1	1138.4	1130.7	1132.5	1133.9	1143.4	1156.0	1177.8	1176.9
47.5°	1289.8	1296.1	1271.1	1258.0	1256.6	1265.3	1259.8	1266.6	1273.5	1298.4	1291.1
50°	1427.5	1438.4	1421.2	1420.2	1423.0	1438.8	1426.1	1429.8	1422.1	1437.9	1428.4
52.5°	1596.0	1611.9	1608.7	1614.2	1644.5	1677.2	1648.2	1635.5	1606.5	1611.5	1594.7
55°	1800.4	1824.5	1829.0	1861.6	1930.5	1997.1	1935.5	1884.3	1822.7	1811.3	1793.6
57.5°	2032.9	2051.9	2073.7	2140.3	2269.0	2387.3	2269.0	2155.8	2058.7	2035.6	2019.4
60°	2283.1	2306.7	2327.5	2425.9	2617.0	2783.4	2613.4	2433.6	2305.3	2274.1	2246.8
62.5°	2551.8	2582.2	2596.6	2705.9	2928.8	3127.4	2932.0	2714.0	2571.7	2538.2	2511.0
65°	2809.6	2834.6	2850.9	2967.4	3180.4	3379.3	3194.8	2980.1	2833.7	2789.7	2768.0
67.5°	2929.8	2943.4	2983.3	3115.1	3339.9	3566.9	3378.0	3129.1	2965.5	2888.6	2889.4
70°	2754.0	2726.3	2822.3	3033.5	3358.9	3682.0	3402.4	3027.2	2826.8	2701.8	2731.7
72.5°	2128.1	2080.5	2247.3	2608.4	3141.4	3608.6	3163.1	2628.8	2351.0	2097.3	2160.3
75°	1157.8	1103.9	1334.1	1791.0	2505.1	3127.8	2562.7	1842.1	1485.5	1149.2	1224.1
77.5°	326.8	306.4	492.1	866.4	1506.7	2196.1	1564.8	885.5	583.6	346.2	384.8
80°	100.1	97.0	131.4	261.1	639.9	1051.9	615.0	264.2	167.2	105.6	111.5
82.5°	59.3	54.4	65.3	95.1	163.2	330.4	158.6	99.2	79.7	53.5	58.0
85°	34.0	31.7	38.5	46.2	54.8	70.2	45.8	47.2	42.6	28.6	29.9
87.5°	14.0	12.7	15.0	14.5	12.7	16.3	12.2	14.5	17.2	11.4	10.5
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)