

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: P960768

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9026.1 lumens
Efficiency: N/A
Efficacy: 113.4 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

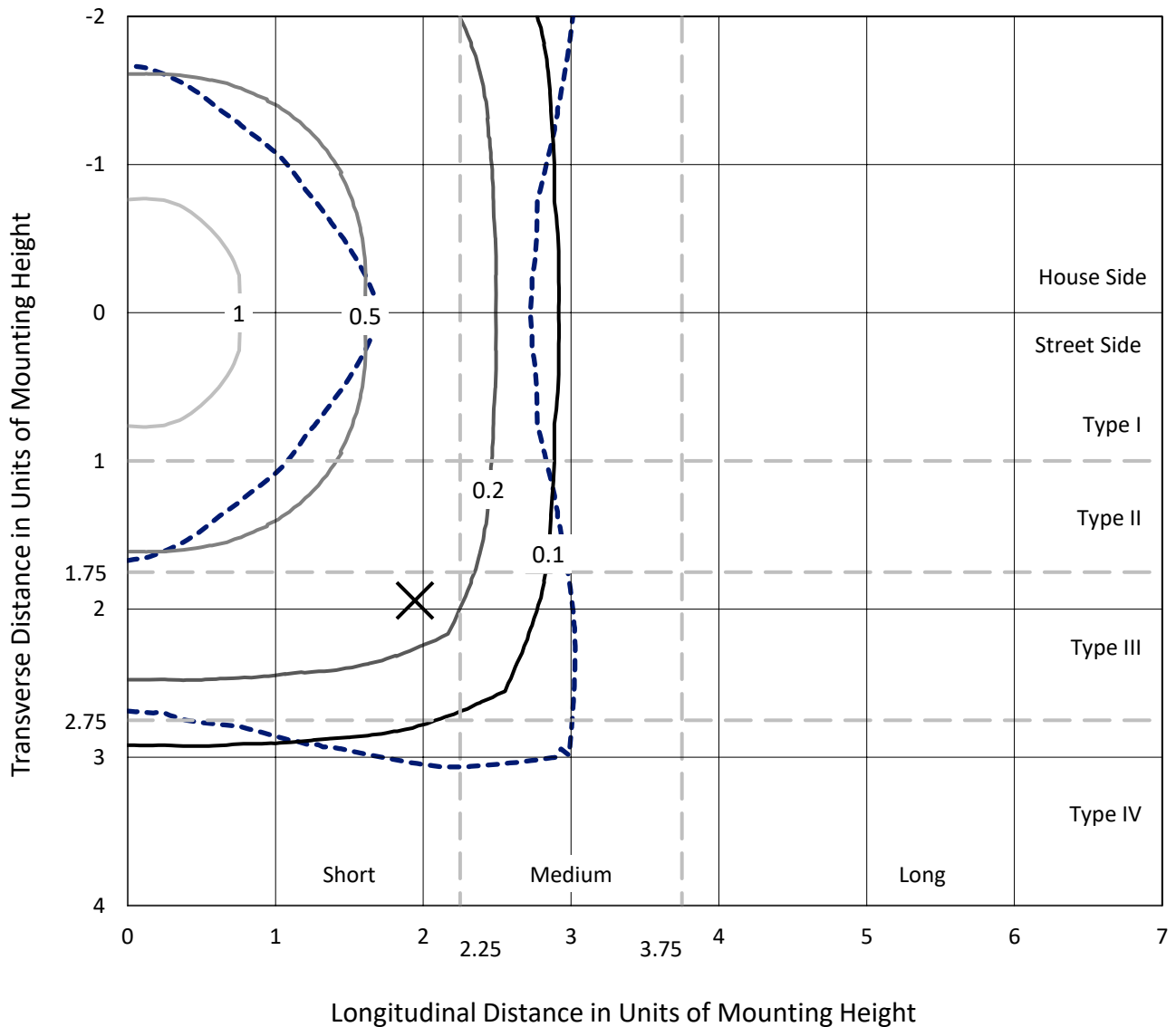
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

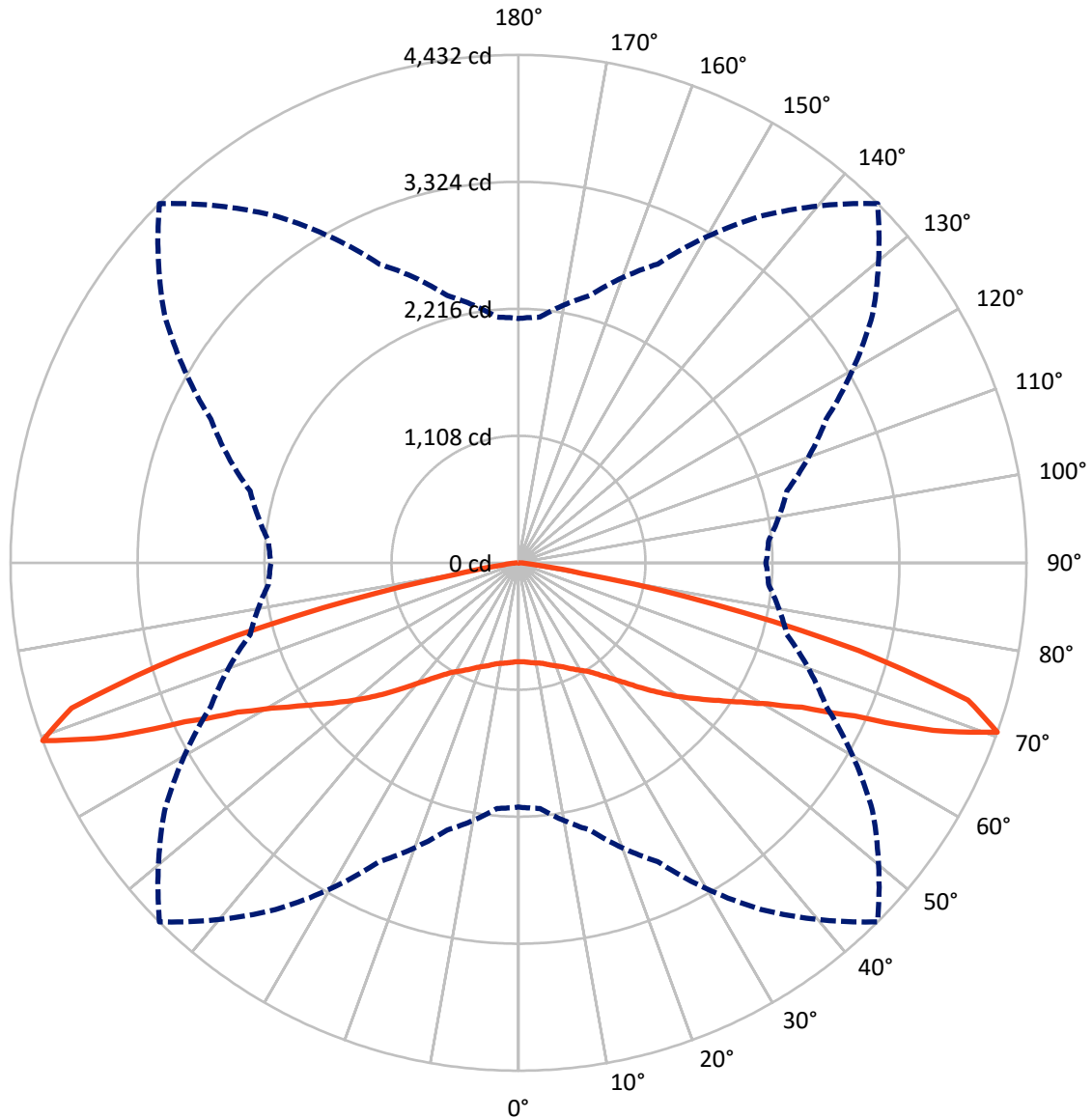
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	4513.1	0.0	4513.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4513.1	0.0	4513.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	9026.1	0.0	9026.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	0.9
10°-20°	260.5	2.9
20°-30°	465.5	5.2
30°-40°	754.5	8.4
40°-50°	1229.0	13.6
50°-60°	1873.8	20.8
60°-70°	2787.7	30.9
70°-80°	1519.4	16.8
80°-90°	51.7	0.6
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°	9026.1	100.0
0°-180°	9026.1	100.0

Coefficient of Utilization



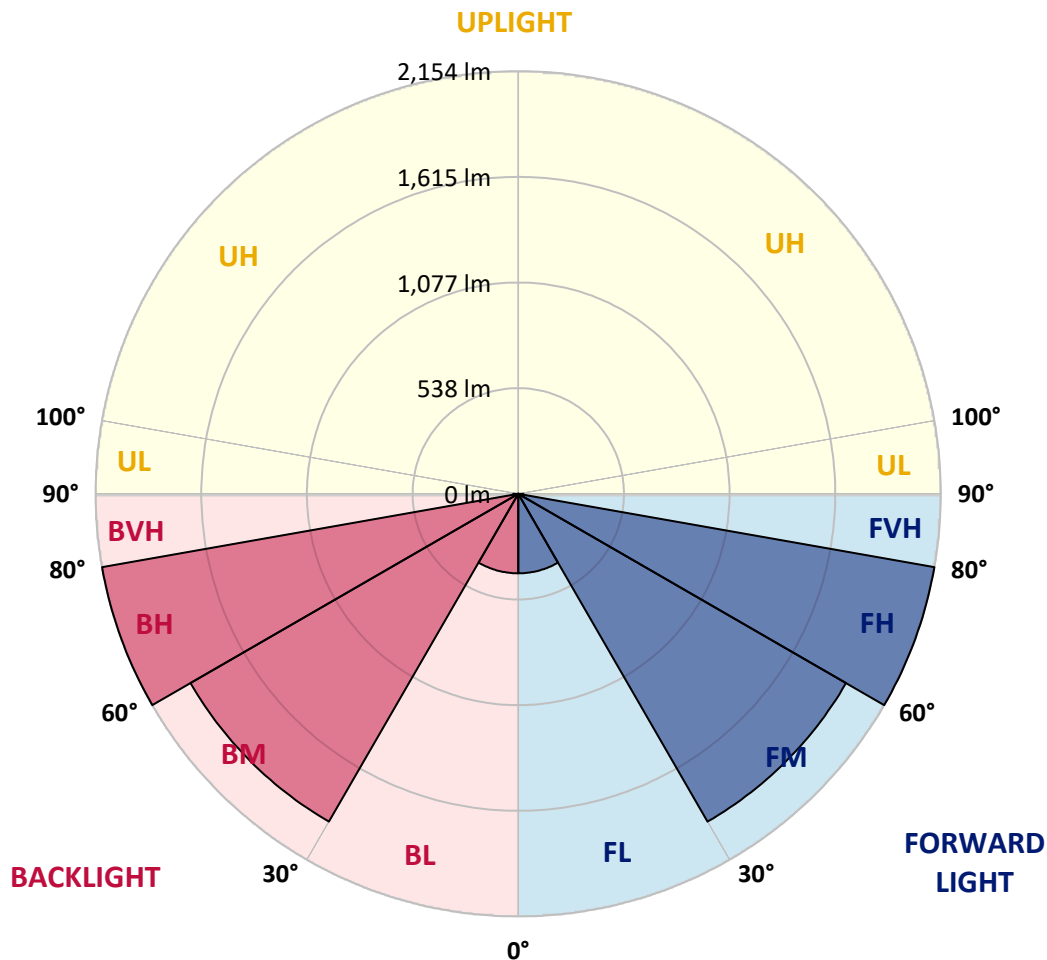
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.0	4.5			
FM (30°-60°)	1928.7	21.4			
FH (60°-80°)	2153.5	23.9			G2/5000
FVH (80°-90°)	25.9	0.3			G1/100
BL (0°-30°)	405.0	4.5	B1/500		
BM (30°-60°)	1928.7	21.4	B2/2500		
BH (60°-80°)	2153.5	23.9	B3/2500		G2/5000
BVH (80°-90°)	25.9	0.3			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°	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6	864.6
2.5°	868.7	869.6	867.8	866.8	865.9	864.6	865.1	867.4	869.1	868.7	869.1
5°	876.0	876.9	875.5	875.0	873.2	872.8	872.8	875.0	876.4	875.5	876.0
7.5°	884.1	885.5	883.1	882.7	881.8	880.9	880.5	882.7	884.1	884.1	884.1
10°	891.7	893.2	891.3	890.0	889.1	889.1	888.2	890.0	892.3	891.7	891.7
12.5°	900.0	900.9	899.0	898.1	898.1	899.5	898.1	899.0	900.9	900.0	899.5
15°	909.9	910.4	909.9	911.3	913.6	918.1	914.0	913.1	914.0	911.7	911.7
17.5°	923.5	924.4	926.2	929.4	932.5	940.7	933.5	931.2	931.2	926.7	926.7
20°	940.3	941.7	944.3	949.8	953.9	961.6	954.4	951.2	949.8	943.9	943.9
22.5°	958.0	960.2	964.3	971.6	978.8	986.0	978.8	973.3	969.2	961.6	961.1
25°	978.4	981.0	987.4	999.2	1009.2	1019.6	1011.0	1000.1	992.0	981.0	980.6
27.5°	1007.4	1010.5	1018.2	1032.7	1045.4	1054.5	1046.3	1032.3	1020.9	1007.8	1007.4
30°	1048.2	1051.3	1060.4	1075.7	1084.3	1090.3	1084.9	1074.0	1060.4	1045.4	1045.4
32.5°	1100.7	1104.7	1114.8	1129.2	1131.1	1132.0	1130.2	1124.7	1114.8	1096.6	1097.1
35°	1167.3	1171.9	1183.2	1194.9	1193.1	1194.9	1192.3	1190.4	1183.2	1162.4	1162.4
37.5°	1248.9	1254.3	1266.1	1275.2	1270.6	1268.3	1268.8	1269.3	1265.2	1242.1	1242.1
40°	1343.6	1350.8	1359.5	1369.0	1361.3	1354.4	1359.0	1362.6	1359.0	1335.5	1335.5
42.5°	1441.0	1451.4	1460.5	1474.1	1467.8	1459.2	1465.4	1469.5	1461.9	1436.5	1438.3
45°	1549.3	1559.3	1571.1	1591.4	1586.9	1577.9	1586.9	1587.8	1574.7	1544.8	1548.0
47.5°	1661.2	1671.7	1689.3	1716.6	1714.7	1704.8	1716.6	1710.2	1693.4	1657.6	1655.4
50°	1767.3	1781.8	1809.0	1847.0	1850.6	1838.4	1854.3	1842.0	1813.9	1769.2	1768.2
52.5°	1866.9	1882.4	1925.5	1977.1	1990.2	1974.4	1995.7	1974.4	1932.2	1874.7	1869.3
55°	1971.7	1988.9	2040.1	2107.6	2133.8	2122.1	2142.0	2109.9	2050.1	1980.3	1970.8
57.5°	2094.9	2105.4	2166.5	2246.7	2291.1	2293.8	2302.9	2248.5	2176.1	2096.7	2085.9
60°	2228.6	2243.1	2309.7	2405.8	2476.0	2498.6	2489.1	2408.5	2324.2	2233.2	2218.6
62.5°	2399.9	2415.7	2495.5	2610.6	2721.6	2777.9	2740.6	2623.7	2519.6	2410.3	2391.3
65°	2541.7	2559.4	2703.5	2908.7	3110.9	3223.7	3130.4	2915.1	2727.5	2573.5	2548.0
67.5°	2438.9	2460.6	2686.7	3063.7	3566.3	3903.0	3583.5	3110.0	2742.5	2533.6	2502.3
70°	2131.6	2152.0	2415.7	2876.6	3694.5	4432.3	3771.6	2961.3	2424.3	2190.5	2159.3
72.5°	1415.2	1480.9	1747.8	2300.6	3299.0	4101.4	3331.6	2254.0	1621.3	1412.0	1366.2
75°	469.4	522.0	704.2	1192.7	2209.6	3067.4	2103.5	1055.3	557.8	401.5	379.8
77.5°	118.3	136.4	188.1	341.2	881.4	1746.4	793.5	278.7	151.8	106.1	94.7
80°	57.5	63.4	90.6	113.8	220.7	555.1	207.0	106.9	71.6	55.2	50.7
82.5°	31.7	32.2	51.2	64.4	82.0	143.6	85.2	62.5	41.2	33.5	33.5
85°	19.5	19.1	27.2	34.4	34.4	51.2	40.8	34.4	23.6	20.8	21.7
87.5°	7.7	7.7	9.9	10.9	9.5	13.1	10.5	11.4	9.0	8.6	9.0
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)