

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: P963403

Luminaire Tested: **NAV-SB3A-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963403
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-SB3A-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11935.1 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

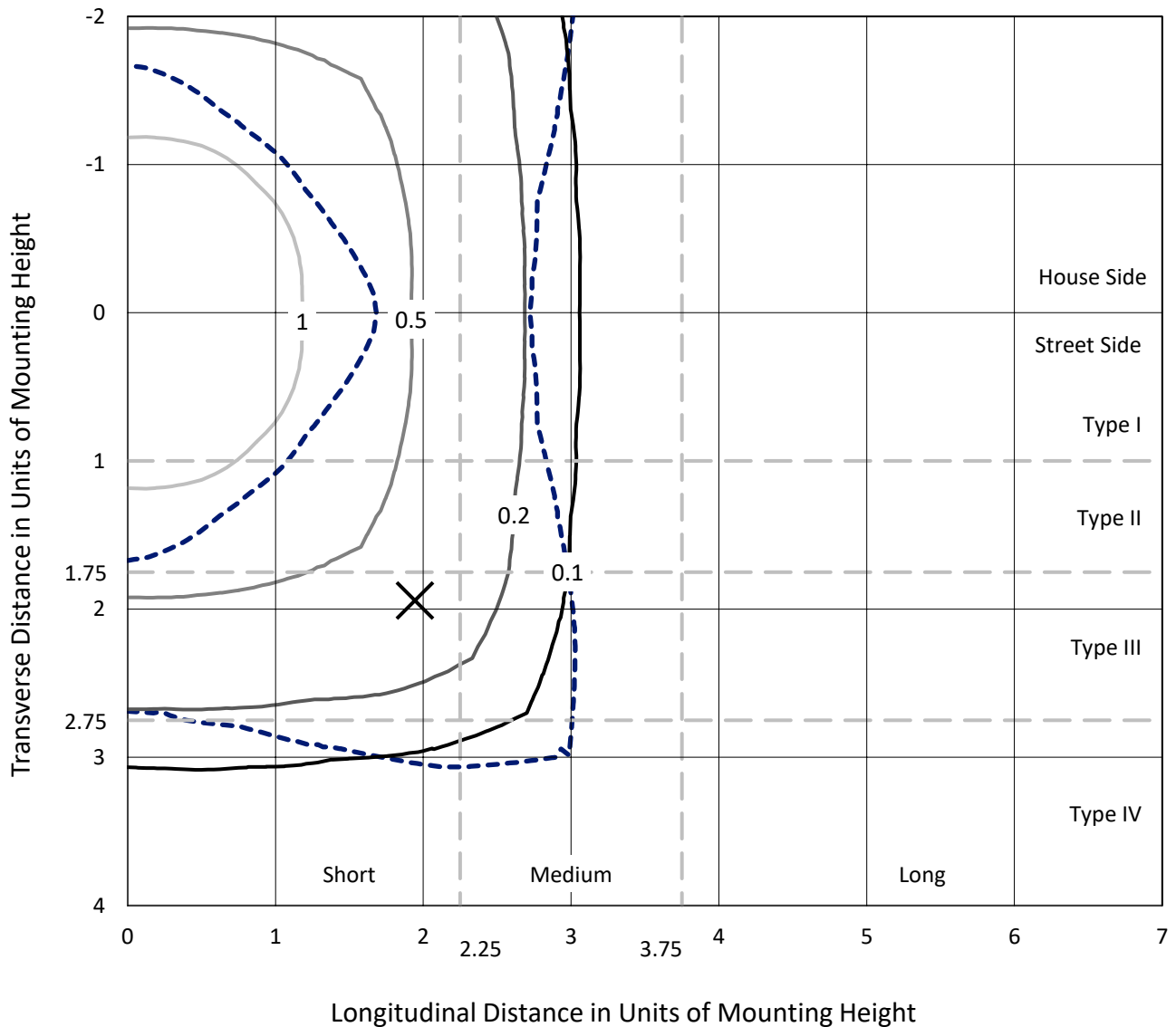
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

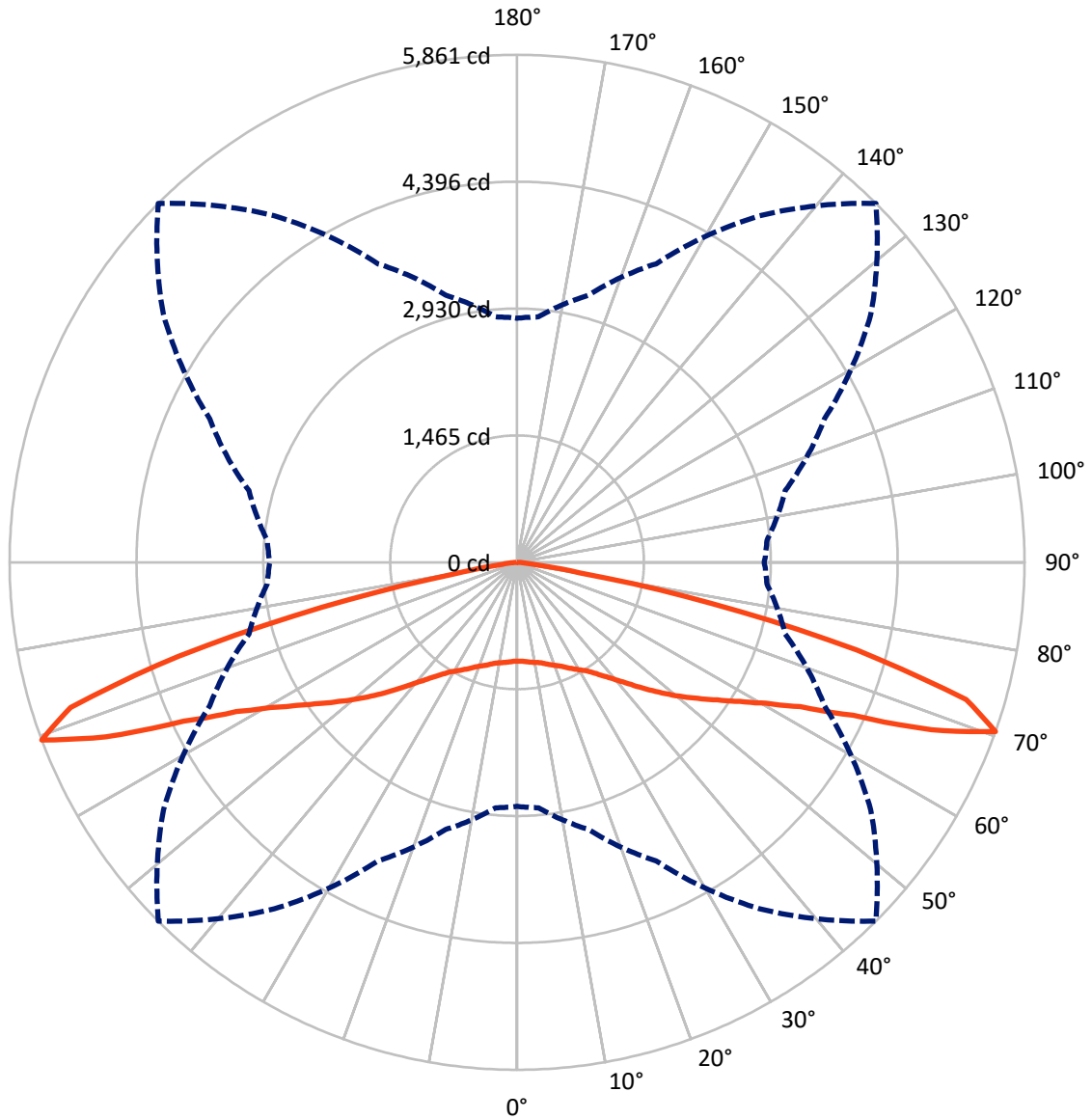
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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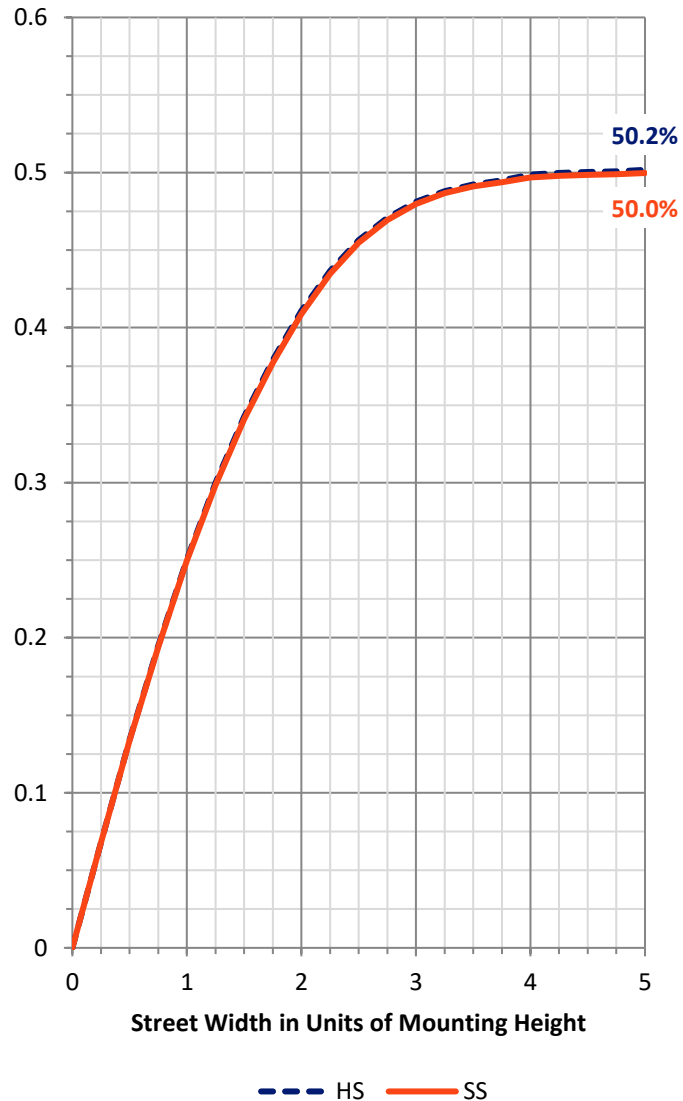
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5967.6	0.0	5967.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5967.6	0.0	5967.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	11935.1	0.0	11935.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	0.9
10°-20°	344.4	2.9
20°-30°	615.5	5.2
30°-40°	997.7	8.4
40°-50°	1625.1	13.6
50°-60°	2477.8	20.8
60°-70°	3686.1	30.9
70°-80°	2009.0	16.8
80°-90°	68.4	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°	11935.1	100.0
0°-180°	11935.1	100.0

Coefficient of Utilization

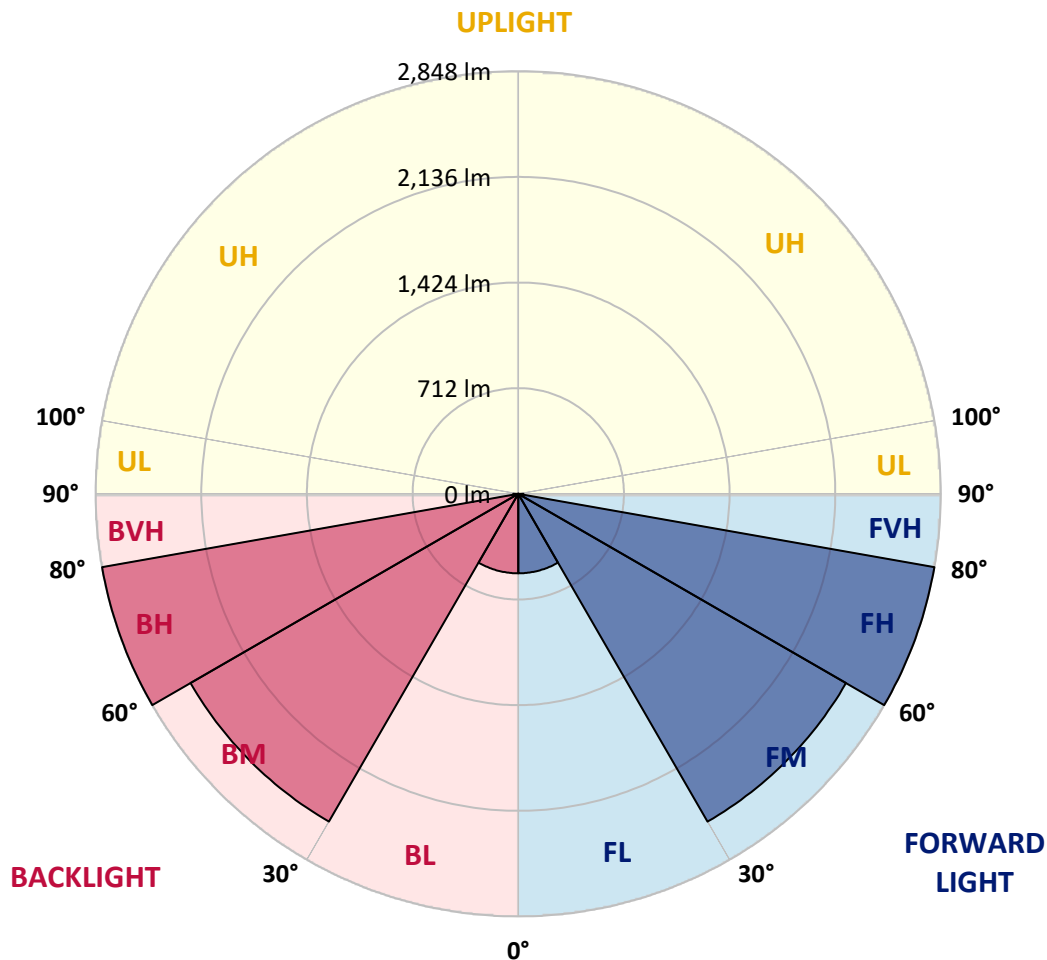


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	535.5	4.5			
FM (30°-60°)	2550.3	21.4			
FH (60°-80°)	2847.6	23.9			G2/5000
FVH (80°-90°)	34.2	0.3			G1/100
BL (0°-30°)	535.5	4.5	B2/1000		
BM (30°-60°)	2550.3	21.4	B3/5000		
BH (60°-80°)	2847.6	23.9	B4/5000		G2/5000
BVH (80°-90°)	34.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3	1143.3
2.5°	1148.6	1149.8	1147.5	1146.3	1145.0	1143.3	1143.9	1146.9	1149.2	1148.6	1149.2
5°	1158.2	1159.5	1157.6	1157.0	1154.7	1154.0	1154.0	1157.0	1158.9	1157.6	1158.2
7.5°	1169.0	1170.9	1167.8	1167.3	1166.0	1164.8	1164.2	1167.3	1169.0	1169.0	1169.0
10°	1179.2	1181.0	1178.6	1176.8	1175.6	1175.6	1174.4	1176.8	1179.8	1179.2	1179.2
12.5°	1190.0	1191.2	1188.8	1187.6	1187.6	1189.4	1187.6	1188.8	1191.2	1190.0	1189.4
15°	1203.1	1203.8	1203.1	1205.0	1208.0	1214.0	1208.6	1207.3	1208.6	1205.6	1205.6
17.5°	1221.2	1222.3	1224.8	1229.0	1233.2	1243.9	1234.3	1231.3	1231.3	1225.4	1225.4
20°	1243.3	1245.2	1248.8	1255.9	1261.3	1271.5	1261.9	1257.7	1255.9	1248.1	1248.1
22.5°	1266.7	1269.7	1275.1	1284.6	1294.3	1303.8	1294.3	1287.1	1281.7	1271.5	1270.9
25°	1293.7	1297.2	1305.6	1321.2	1334.4	1348.2	1336.8	1322.5	1311.6	1297.2	1296.6
27.5°	1332.0	1336.2	1346.3	1365.6	1382.3	1394.3	1383.5	1365.0	1350.0	1332.6	1332.0
30°	1385.9	1390.1	1402.1	1422.5	1433.9	1441.7	1434.5	1420.0	1402.1	1382.3	1382.3
32.5°	1455.4	1460.8	1474.1	1493.2	1495.6	1496.8	1494.3	1487.2	1474.1	1450.1	1450.7
35°	1543.5	1549.5	1564.5	1580.0	1577.7	1580.0	1576.4	1574.1	1564.5	1536.9	1536.9
37.5°	1651.4	1658.6	1674.1	1686.1	1680.2	1677.1	1677.7	1678.3	1672.9	1642.4	1642.4
40°	1776.6	1786.2	1797.5	1810.2	1800.0	1791.0	1796.9	1801.7	1796.9	1765.9	1765.9
42.5°	1905.5	1919.2	1931.2	1949.1	1940.7	1929.4	1937.8	1943.2	1932.9	1899.4	1901.9
45°	2048.7	2061.8	2077.4	2104.3	2098.4	2086.4	2098.4	2099.6	2082.2	2042.6	2046.8
47.5°	2196.7	2210.4	2233.8	2269.8	2267.3	2254.2	2269.8	2261.4	2239.2	2191.9	2188.9
50°	2336.9	2356.1	2391.9	2442.3	2447.1	2430.9	2451.9	2435.7	2398.6	2339.3	2338.0
52.5°	2468.7	2489.0	2546.0	2614.3	2631.7	2610.7	2638.9	2610.7	2554.9	2478.9	2471.7
55°	2607.1	2629.8	2697.6	2786.9	2821.6	2806.0	2832.4	2789.8	2710.7	2618.5	2605.9
57.5°	2770.1	2783.8	2864.8	2970.8	3029.5	3033.1	3045.1	2973.2	2877.3	2772.4	2758.1
60°	2946.9	2966.0	3054.1	3181.1	3274.0	3304.0	3291.4	3184.7	3073.3	2952.8	2933.7
62.5°	3173.3	3194.3	3299.8	3452.0	3598.8	3673.1	3623.9	3469.3	3331.6	3187.1	3161.9
65°	3360.9	3384.2	3574.8	3846.2	4113.4	4262.7	4139.3	3854.6	3606.6	3402.8	3369.3
67.5°	3224.9	3253.7	3552.6	4051.1	4715.6	5160.9	4738.4	4112.3	3626.3	3350.1	3308.7
70°	2818.6	2845.6	3194.3	3803.7	4885.3	5860.7	4987.0	3915.7	3205.7	2896.4	2855.1
72.5°	1871.2	1958.2	2311.1	3042.1	4362.1	5423.3	4405.2	2980.4	2143.9	1867.0	1806.6
75°	620.7	690.2	931.1	1577.1	2921.7	4055.9	2781.4	1395.5	737.6	530.8	502.1
77.5°	156.4	180.4	248.7	451.2	1165.4	2309.3	1049.2	368.5	200.7	140.2	125.3
80°	76.1	83.8	119.8	150.4	291.8	734.0	273.9	141.4	94.7	73.1	67.1
82.5°	41.9	42.5	67.8	85.1	108.4	189.9	112.6	82.7	54.5	44.4	44.4
85°	25.7	25.2	36.0	45.5	45.5	67.8	53.9	45.5	31.2	27.6	28.8
87.5°	10.1	10.1	13.2	14.3	12.6	17.4	13.7	15.0	12.0	11.4	12.0
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)