

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: P963405

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963405
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-SB3A-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 11527.2 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

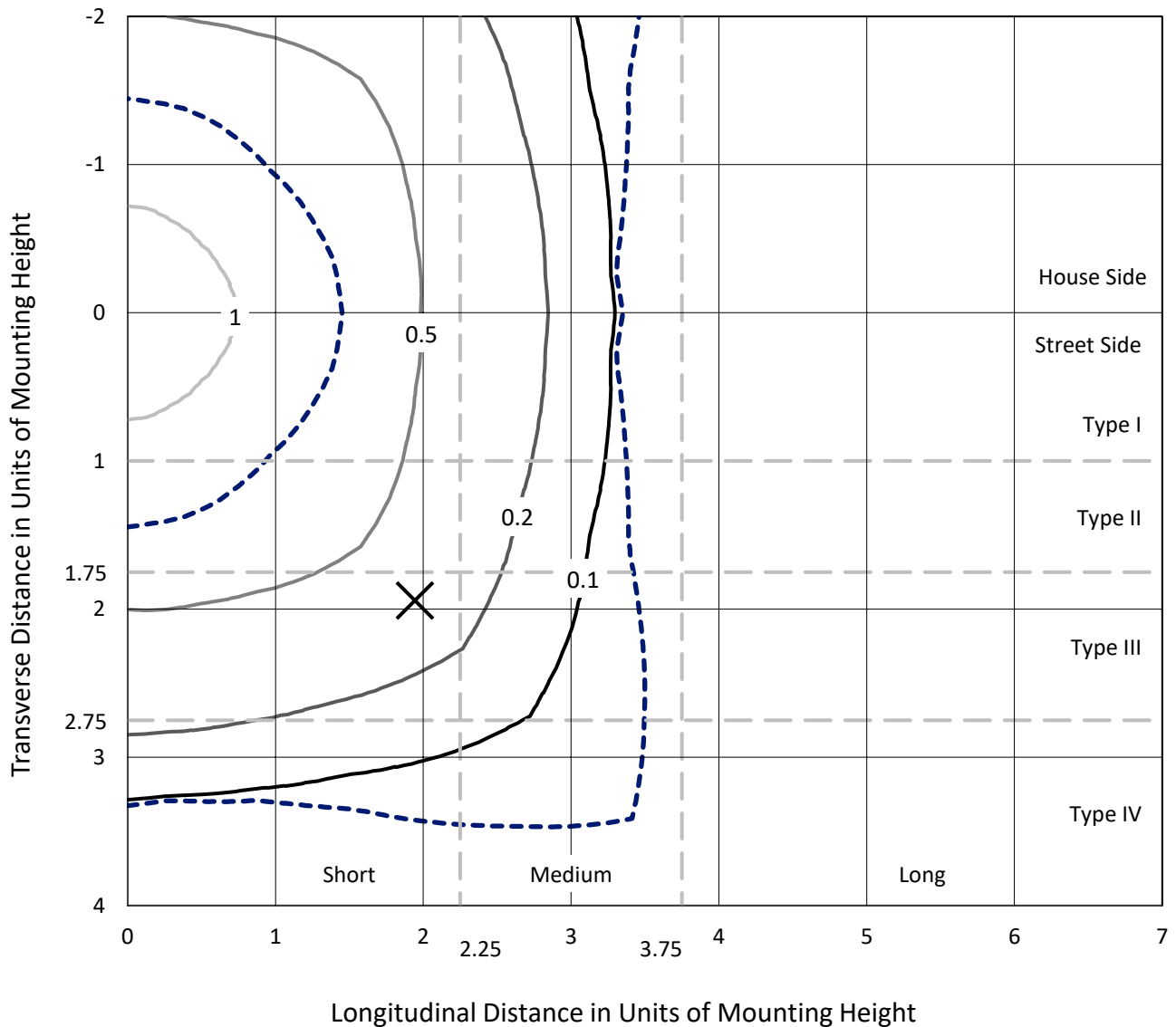
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

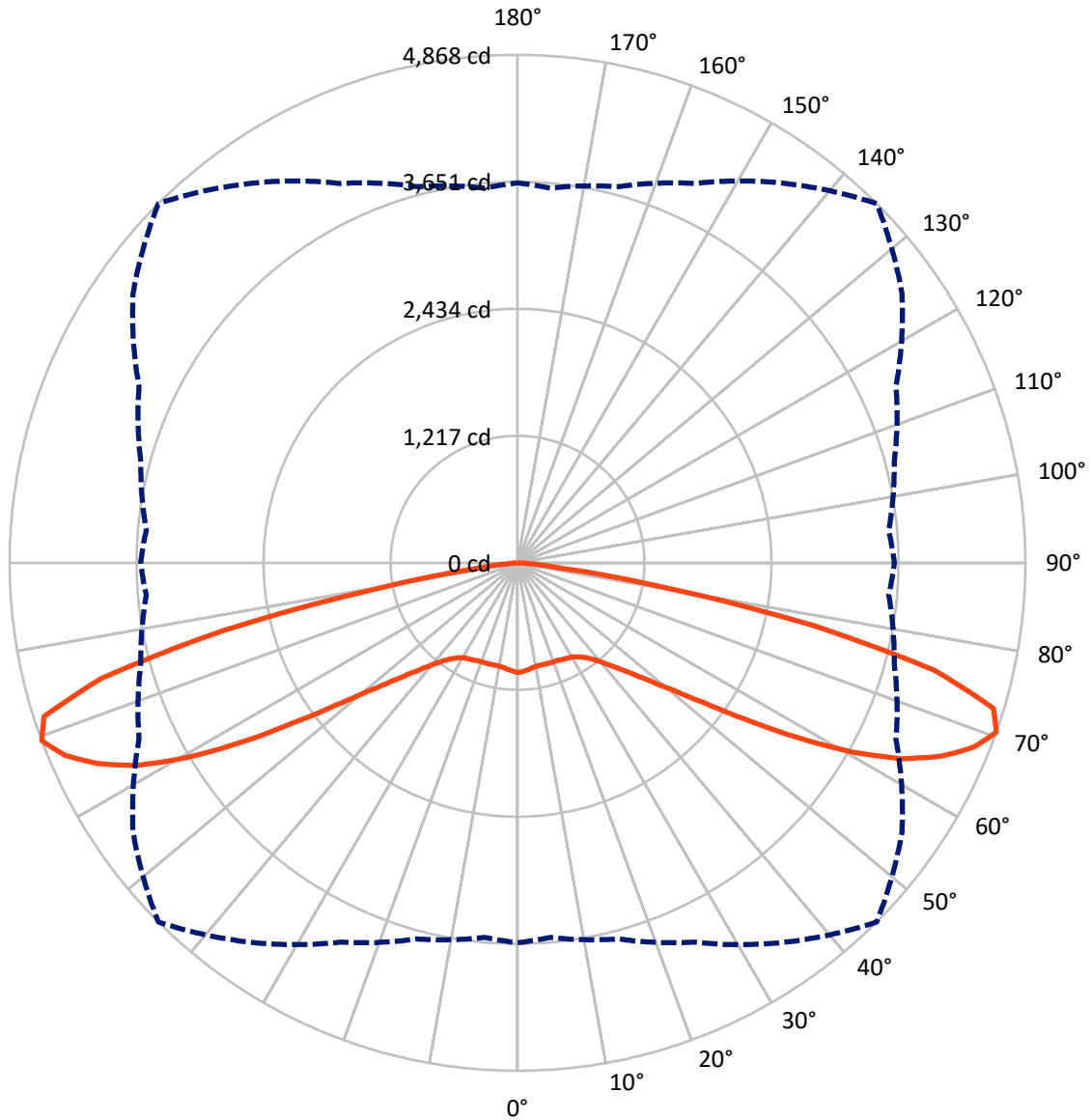
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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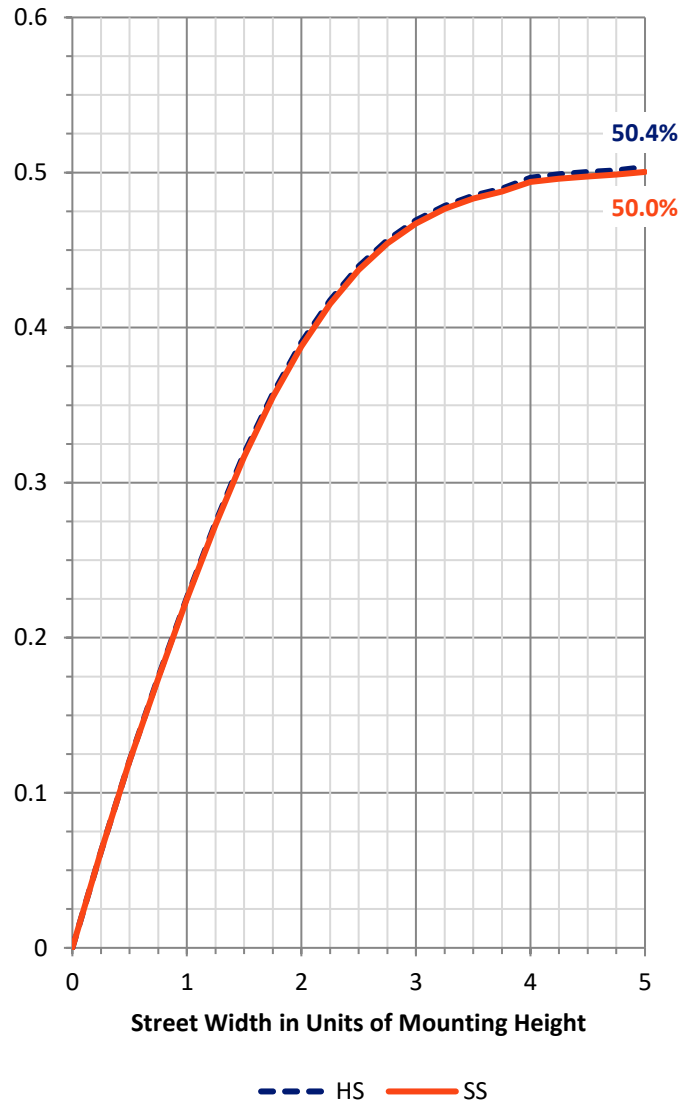
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5763.6	0.0	5763.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5763.6	0.0	5763.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	11527.2	0.0	11527.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	0.8
10°-20°	287.2	2.5
20°-30°	478.0	4.1
30°-40°	722.8	6.3
40°-50°	1201.1	10.4
50°-60°	2266.5	19.7
60°-70°	3827.1	33.2
70°-80°	2514.8	21.8
80°-90°	131.8	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°	11527.2	100.0
0°-180°	11527.2	100.0

Coefficient of Utilization



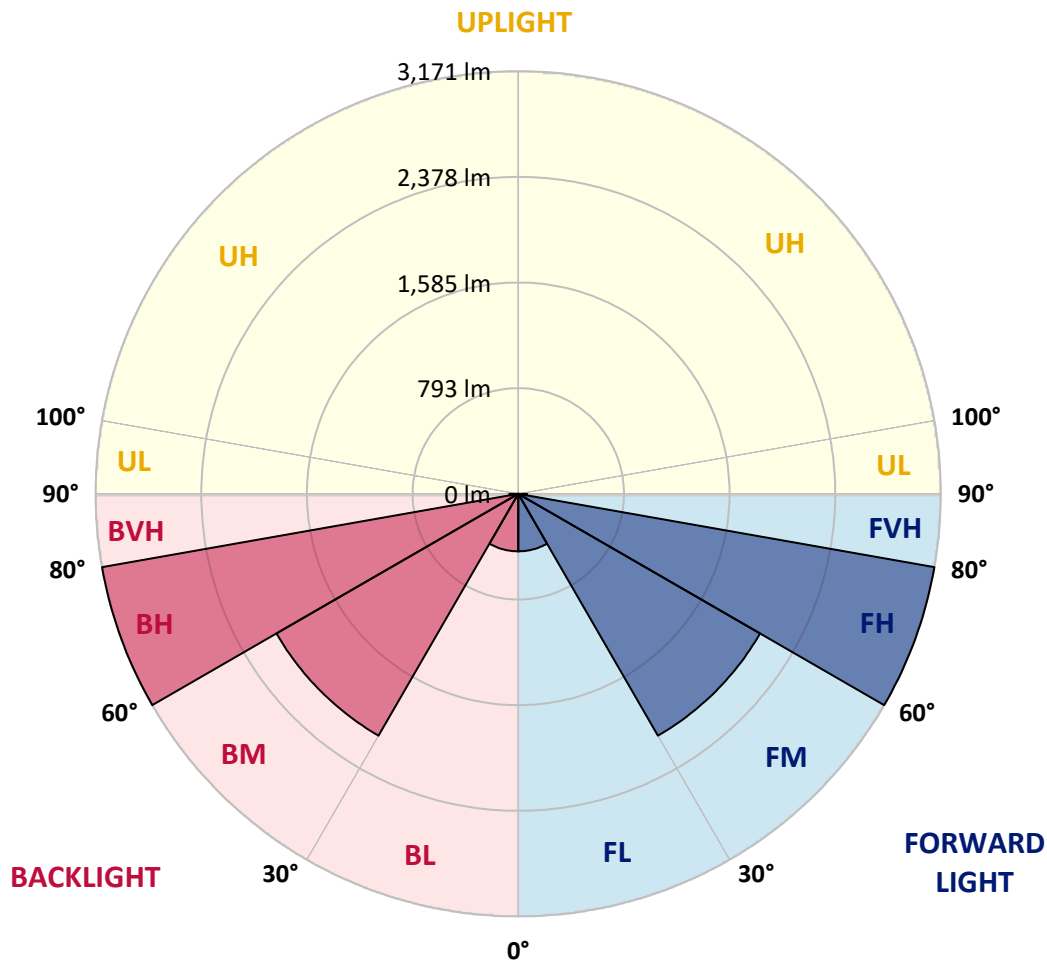
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.5	3.7			
FM (30°-60°)	2095.2	18.2			
FH (60°-80°)	3171.0	27.5			G2/5000
FVH (80°-90°)	65.9	0.6			G1/100
BL (0°-30°)	431.5	3.7	B1/500		
BM (30°-60°)	2095.2	18.2	B2/2500		
BH (60°-80°)	3171.0	27.5	B4/5000		G2/5000
BVH (80°-90°)	65.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5
2.5°	1044.9	1048.0	1046.7	1044.3	1044.3	1042.5	1044.3	1045.5	1047.3	1048.5	1048.0
5°	1031.1	1033.5	1032.9	1031.1	1031.8	1029.9	1031.1	1032.9	1034.1	1034.7	1034.7
7.5°	1019.2	1021.5	1020.4	1017.3	1017.3	1015.6	1016.2	1017.9	1019.8	1020.4	1020.4
10°	1016.2	1018.5	1015.0	1010.1	1008.4	1005.9	1006.6	1008.4	1012.0	1013.7	1013.7
12.5°	1017.3	1019.2	1015.6	1008.4	1006.6	1004.2	1004.2	1005.9	1010.8	1013.2	1013.7
15°	1021.0	1022.7	1017.3	1009.5	1007.8	1005.9	1005.4	1007.8	1013.2	1017.3	1017.9
17.5°	1027.6	1029.3	1021.0	1010.1	1007.8	1008.4	1007.8	1009.5	1017.9	1025.7	1025.7
20°	1033.5	1034.7	1023.4	1010.1	1007.8	1008.4	1007.8	1011.4	1022.1	1032.9	1033.5
22.5°	1035.4	1036.5	1025.7	1014.3	1012.6	1013.2	1012.6	1016.2	1026.3	1037.1	1037.1
25°	1036.0	1037.7	1029.3	1020.4	1023.4	1024.6	1023.4	1024.0	1031.8	1041.3	1040.7
27.5°	1044.9	1047.3	1039.6	1031.8	1033.5	1032.9	1034.7	1036.5	1042.5	1052.1	1049.7
30°	1063.5	1065.3	1058.7	1050.9	1049.7	1045.5	1050.9	1056.9	1063.5	1071.8	1070.1
32.5°	1094.1	1097.7	1089.3	1080.9	1075.4	1073.1	1077.3	1087.4	1096.4	1105.5	1101.9
35°	1144.9	1147.4	1139.6	1124.0	1114.4	1114.4	1118.0	1131.2	1145.5	1156.9	1152.7
37.5°	1216.9	1219.9	1206.1	1187.6	1173.1	1173.1	1177.9	1191.7	1213.3	1229.5	1223.4
40°	1304.3	1308.5	1291.2	1272.0	1258.2	1255.8	1261.8	1277.4	1297.8	1318.1	1311.6
42.5°	1409.8	1414.6	1391.8	1375.0	1364.3	1364.3	1367.2	1381.6	1400.3	1425.4	1423.6
45°	1544.6	1553.0	1521.8	1505.1	1494.9	1497.3	1499.1	1511.7	1528.5	1557.2	1555.9
47.5°	1705.2	1713.6	1680.6	1663.3	1661.4	1672.8	1665.6	1674.6	1683.6	1716.6	1706.9
50°	1887.3	1901.7	1878.9	1877.7	1881.3	1902.3	1885.5	1890.3	1880.2	1901.1	1888.6
52.5°	2110.2	2131.2	2127.0	2134.2	2174.3	2217.5	2179.1	2162.3	2124.0	2130.6	2108.4
55°	2380.5	2412.1	2418.2	2461.3	2552.4	2640.5	2559.0	2491.3	2409.8	2394.8	2371.4
57.5°	2687.8	2713.0	2741.7	2829.8	3000.0	3156.3	3000.0	2850.1	2721.9	2691.3	2669.8
60°	3018.5	3049.7	3077.3	3207.2	3460.1	3680.0	3455.3	3217.5	3047.8	3006.5	2970.6
62.5°	3373.8	3414.0	3433.1	3577.6	3872.3	4134.7	3876.6	3588.3	3400.1	3355.8	3319.9
65°	3714.7	3747.7	3769.2	3923.2	4204.9	4467.9	4224.0	3940.0	3746.5	3688.4	3659.6
67.5°	3873.5	3891.5	3944.2	4118.6	4415.7	4715.9	4466.0	4137.1	3920.8	3818.9	3820.2
70°	3641.0	3604.5	3731.5	4010.7	4440.9	4868.1	4498.4	4002.3	3737.5	3572.1	3611.7
72.5°	2813.6	2750.7	2971.2	3448.7	4153.3	4771.1	4182.1	3475.7	3108.4	2772.8	2856.2
75°	1530.8	1459.5	1763.9	2367.9	3312.1	4135.4	3388.2	2435.5	1964.0	1519.5	1618.3
77.5°	432.0	405.0	650.7	1145.5	1992.2	2903.5	2068.9	1170.8	771.7	457.8	508.7
80°	132.4	128.2	173.7	345.1	846.0	1390.6	813.0	349.3	221.1	139.6	147.4
82.5°	78.5	71.9	86.3	125.9	215.7	436.8	209.7	131.2	105.5	70.7	76.7
85°	44.9	41.9	50.9	61.1	72.5	92.9	60.5	62.3	56.3	37.7	39.6
87.5°	18.6	16.8	19.8	19.2	16.8	21.5	16.2	19.2	22.8	15.0	13.7
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)