

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: P959715

Luminaire Tested: **NAV-SB1B-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4997.9 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

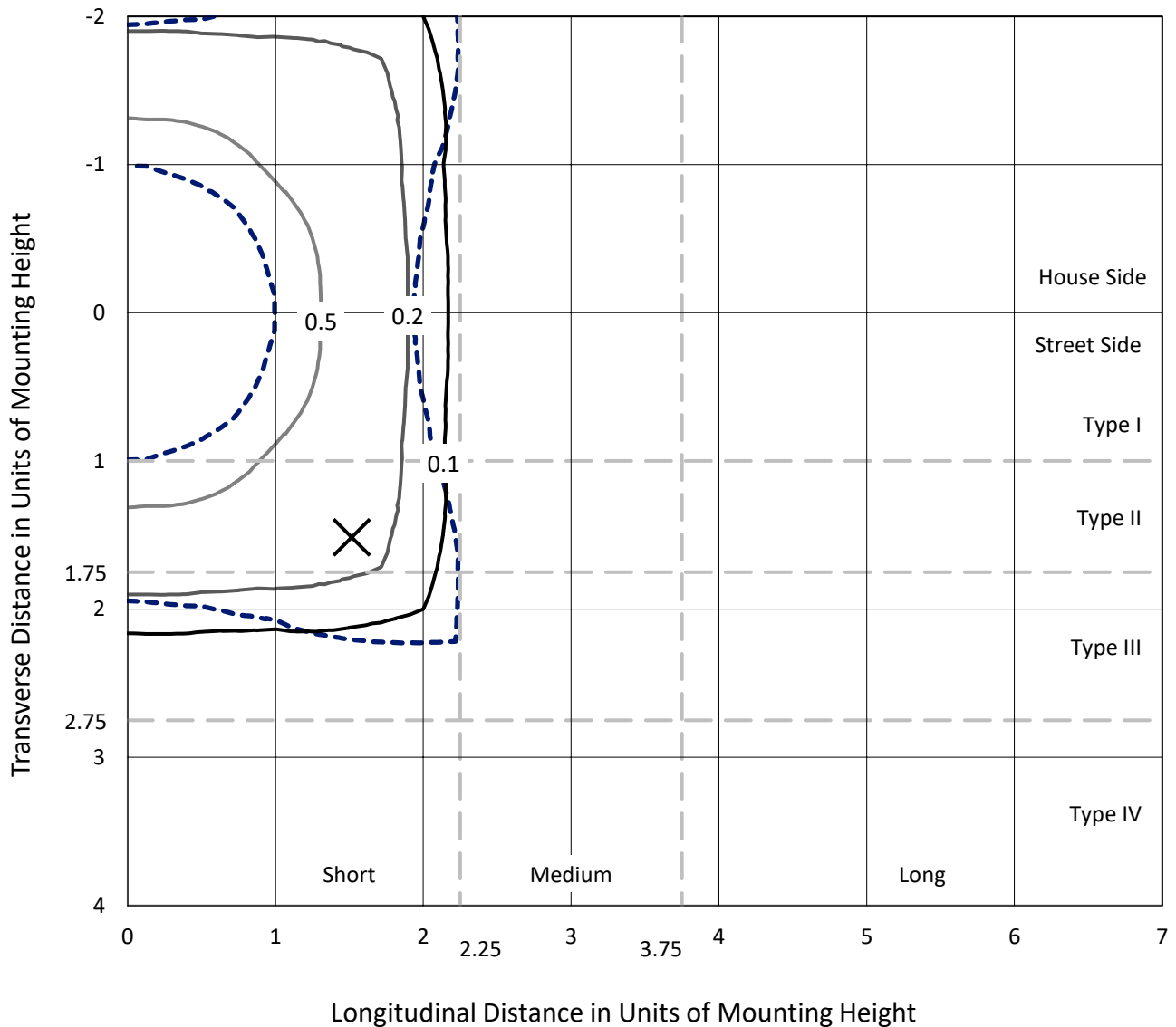
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

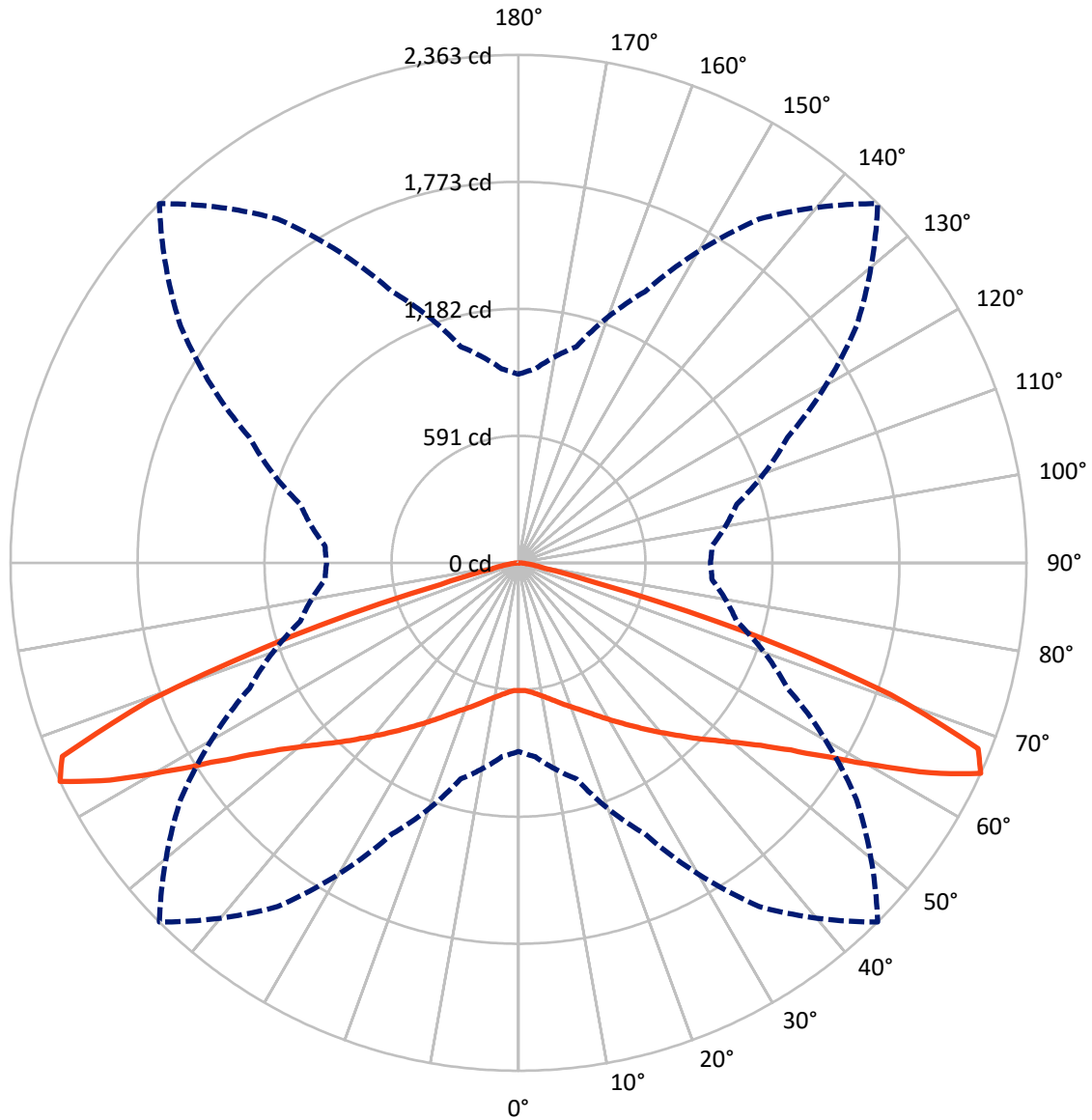
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2498.9	0.0	2498.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2498.9	0.0	2498.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4997.9	0.0	4997.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	1.2
10°-20°	191.5	3.8
20°-30°	361.7	7.2
30°-40°	592.2	11.8
40°-50°	918.2	18.4
50°-60°	1356.4	27.1
60°-70°	1291.2	25.8
70°-80°	208.3	4.2
80°-90°	19.6	0.4
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°	4997.9	100.0
0°-180°	4997.9	100.0

Coefficient of Utilization



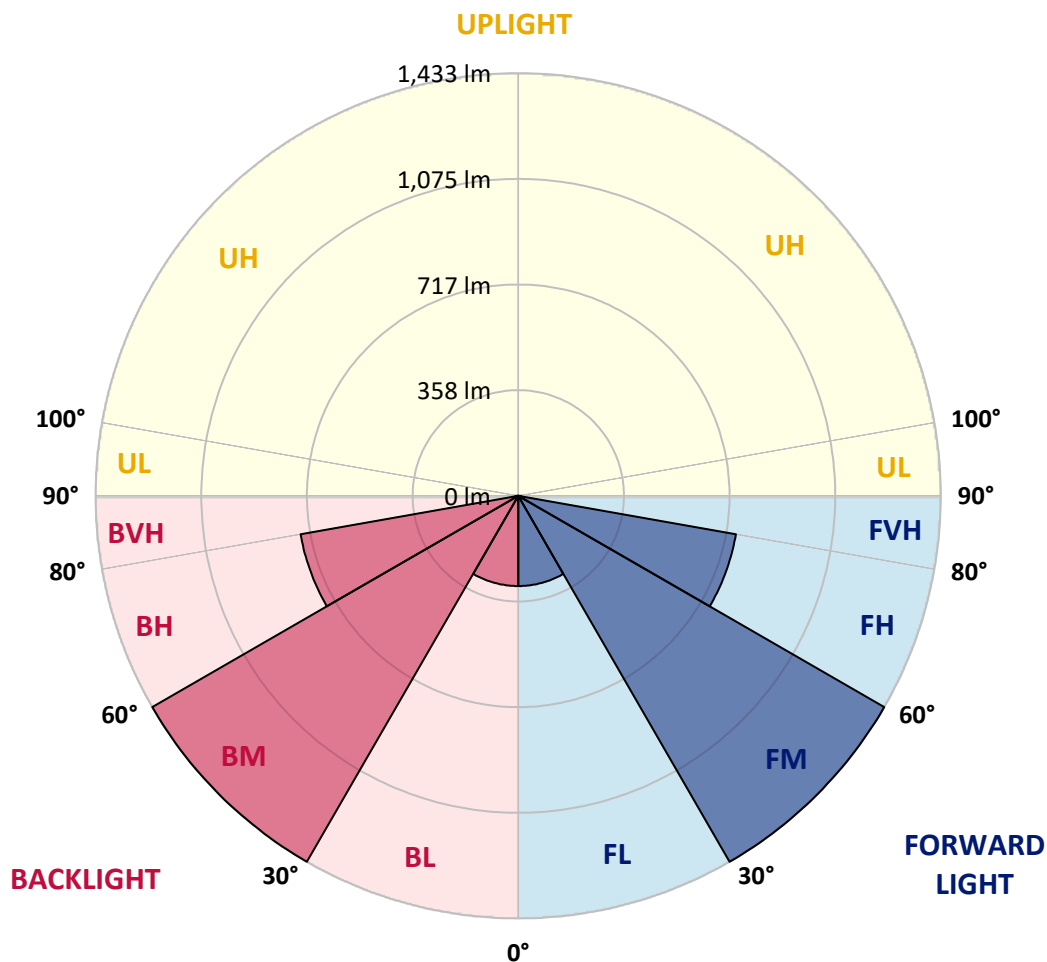
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	306.0	6.1			
FM (30°-60°)	1433.4	28.7			
FH (60°-80°)	749.8	15.0			G1/1800
FVH (80°-90°)	9.8	0.2			G0/10
BL (0°-30°)	306.0	6.1	B1/500		
BM (30°-60°)	1433.4	28.7	B2/2500		
BH (60°-80°)	749.8	15.0	B2/1000		G1/1800
BVH (80°-90°)	9.8	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8
2.5°	598.8	596.8	598.3	597.1	596.0	595.0	595.5	597.3	598.1	598.3	598.3
5°	606.8	605.1	605.9	605.9	604.0	603.6	603.8	605.1	606.6	606.6	606.6
7.5°	619.9	618.1	619.9	618.9	617.4	616.8	616.6	617.7	619.9	619.9	619.1
10°	635.7	633.7	634.7	634.2	632.4	631.7	631.4	632.9	634.9	634.7	634.2
12.5°	652.9	650.7	652.0	650.5	650.0	649.2	649.2	648.9	650.3	649.2	649.7
15°	672.3	670.8	671.3	670.2	671.1	670.6	668.5	667.5	668.0	666.6	666.8
17.5°	695.1	691.6	693.3	692.8	692.8	693.8	690.5	689.3	690.3	688.8	690.1
20°	721.4	717.9	718.6	717.7	716.4	717.4	713.4	714.4	715.1	714.1	716.4
22.5°	750.3	745.8	745.5	746.0	743.2	743.5	740.8	743.2	744.8	742.0	744.8
25°	779.8	775.1	778.4	777.1	773.6	774.4	772.3	774.8	776.1	772.5	776.6
27.5°	811.2	807.9	811.0	811.7	807.4	810.5	807.4	809.7	811.0	805.6	809.7
30°	847.8	844.6	847.3	849.3	844.3	849.1	846.5	848.1	848.3	842.0	845.8
32.5°	887.6	882.6	889.7	890.7	885.2	890.9	887.6	889.7	890.9	882.4	888.2
35°	936.3	930.1	938.1	936.8	932.0	936.8	933.8	936.8	939.8	929.6	935.8
37.5°	988.7	982.3	990.8	988.5	984.0	987.3	985.4	987.5	992.3	981.2	988.0
40°	1046.4	1038.4	1049.9	1045.9	1041.6	1041.2	1042.1	1043.4	1049.7	1037.4	1041.4
42.5°	1108.1	1099.6	1116.8	1110.6	1104.6	1100.5	1103.8	1106.4	1112.3	1098.6	1105.9
45°	1178.5	1168.8	1191.4	1183.9	1174.3	1166.0	1171.3	1175.1	1183.9	1167.3	1175.8
47.5°	1256.3	1245.3	1269.4	1267.1	1251.5	1233.5	1245.5	1256.3	1262.8	1242.7	1249.6
50°	1332.3	1323.8	1355.4	1358.1	1339.1	1313.7	1330.6	1346.8	1348.6	1322.2	1325.5
52.5°	1403.5	1394.9	1440.8	1458.2	1441.1	1411.0	1428.8	1445.4	1432.1	1398.0	1399.0
55°	1460.4	1453.3	1511.9	1556.5	1562.2	1537.4	1548.0	1547.4	1503.8	1451.4	1453.1
57.5°	1474.3	1473.2	1546.9	1641.4	1701.6	1704.7	1683.9	1630.7	1536.7	1466.2	1461.6
60°	1411.5	1417.8	1519.0	1685.8	1846.3	1913.1	1823.1	1671.3	1499.3	1401.5	1390.0
62.5°	1224.0	1240.5	1362.6	1631.7	1963.2	2152.8	1934.6	1609.7	1345.8	1218.2	1210.6
65°	877.2	906.0	1040.9	1392.5	1952.6	2363.4	1918.6	1381.2	1050.9	903.7	893.0
67.5°	397.9	427.3	541.9	953.4	1697.4	2306.2	1693.4	963.4	569.0	428.8	422.5
70°	144.2	149.2	186.0	381.6	1084.8	1837.5	1131.2	384.4	197.8	159.0	156.9
72.5°	87.2	88.0	95.8	136.6	376.9	1115.6	393.0	141.1	97.8	86.7	88.3
75°	55.5	54.9	68.2	83.5	133.7	376.4	140.2	83.5	68.0	61.9	62.4
77.5°	39.9	41.1	48.9	62.4	84.3	127.6	82.7	59.7	48.9	40.1	40.9
80°	29.8	30.5	35.6	48.7	59.1	79.5	52.7	44.2	36.9	25.1	25.8
82.5°	21.5	21.5	23.4	35.4	36.1	42.8	28.6	31.1	24.3	17.8	17.8
85°	12.8	12.5	14.6	21.0	18.8	15.8	13.0	19.1	15.3	11.1	10.8
87.5°	4.5	4.7	4.5	6.0	5.0	4.3	4.0	5.2	4.3	3.8	3.5
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)