

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: P959716

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959716
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-SB1B-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4824.7 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

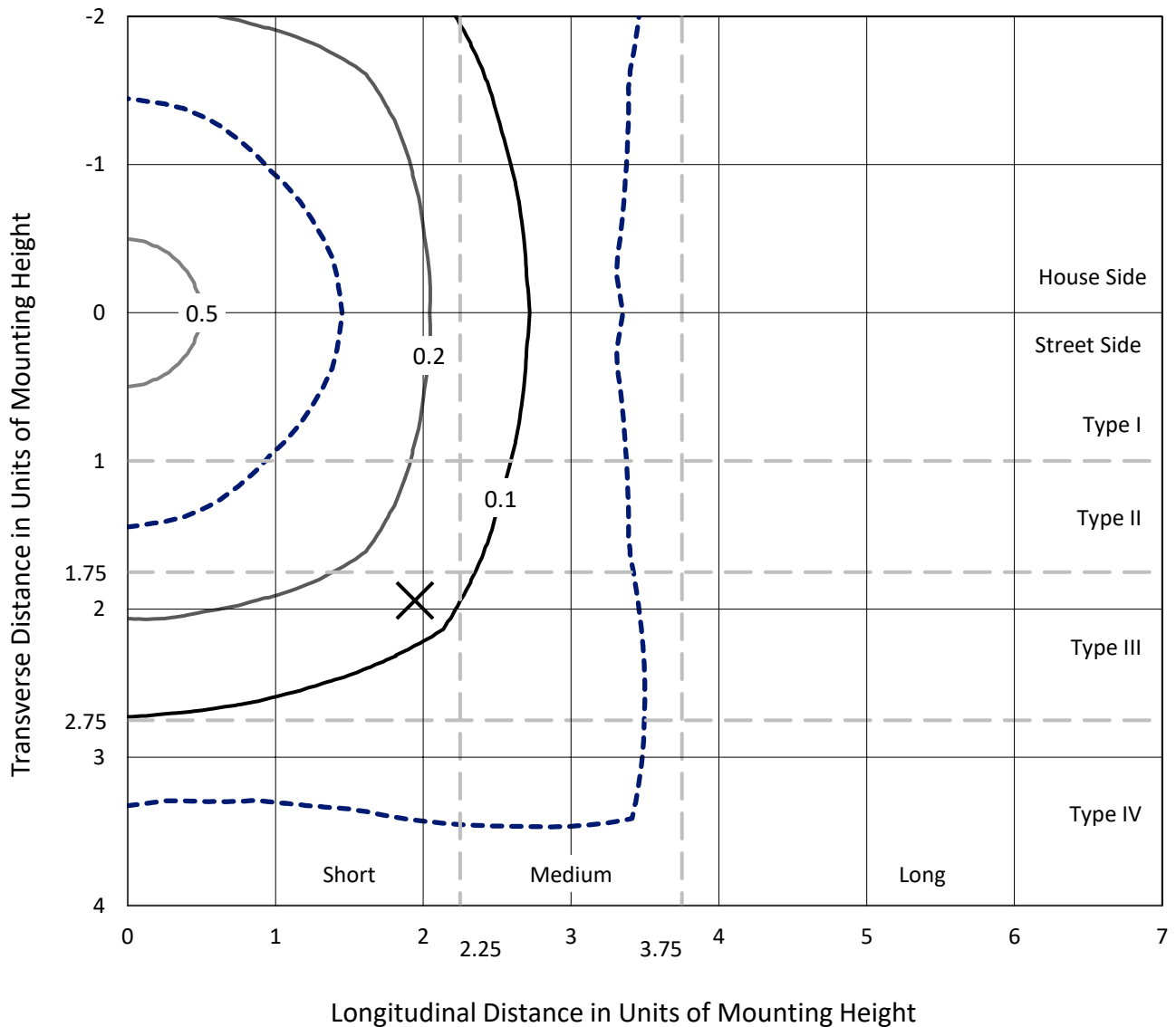
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

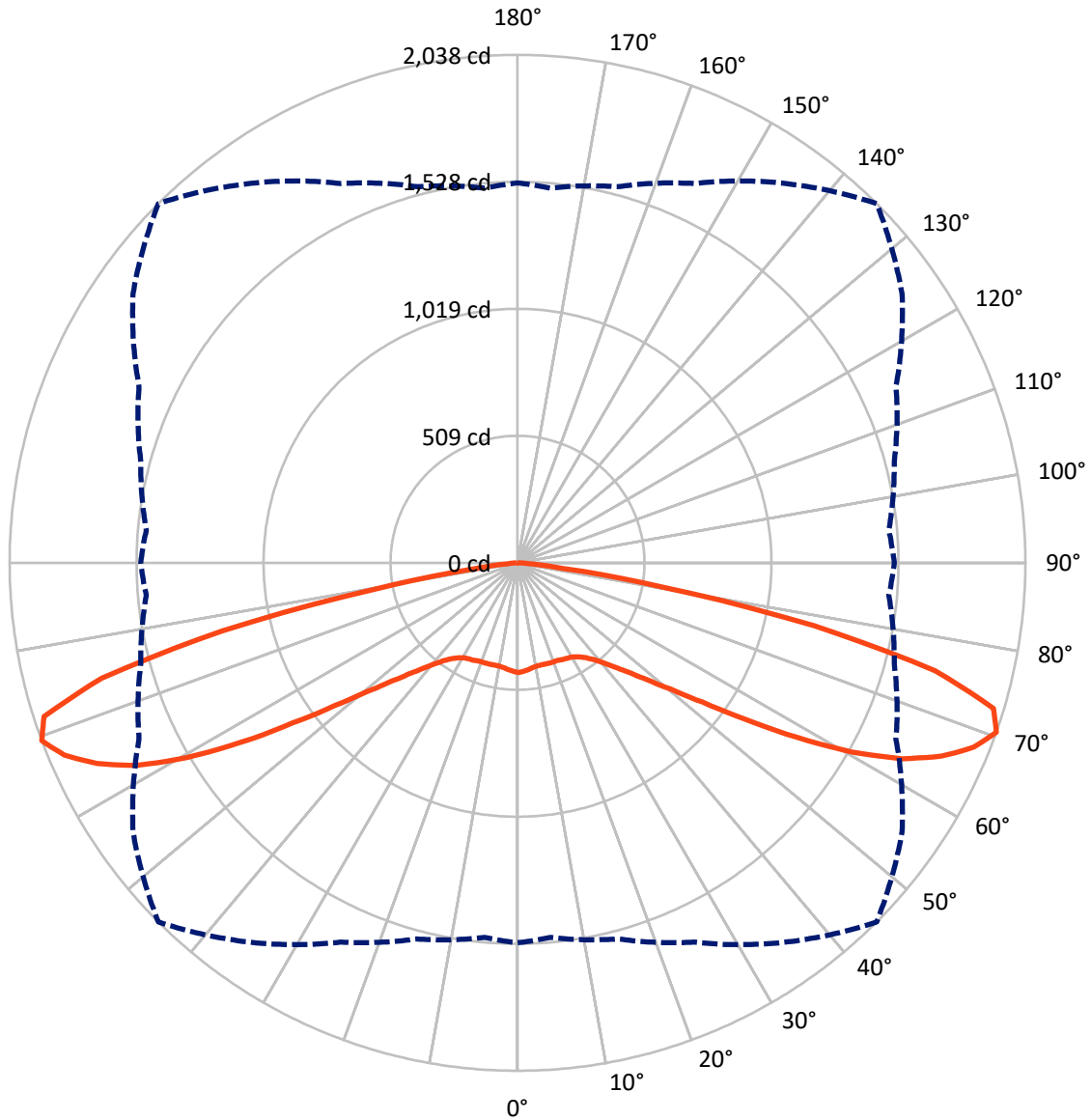
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type V - Short - N/A

REPORT NUMBER: P959716
CATALOG NUMBER: NAV-SB1B-722-U-5WQ

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	2412.3	0.0	2412.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2412.3	0.0	2412.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4824.7	0.0	4824.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	0.8
10°-20°	120.2	2.5
20°-30°	200.0	4.1
30°-40°	302.5	6.3
40°-50°	502.7	10.4
50°-60°	948.6	19.7
60°-70°	1601.8	33.2
70°-80°	1052.6	21.8
80°-90°	55.1	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°	4824.7	100.0
0°-180°	4824.7	100.0

Coefficient of Utilization



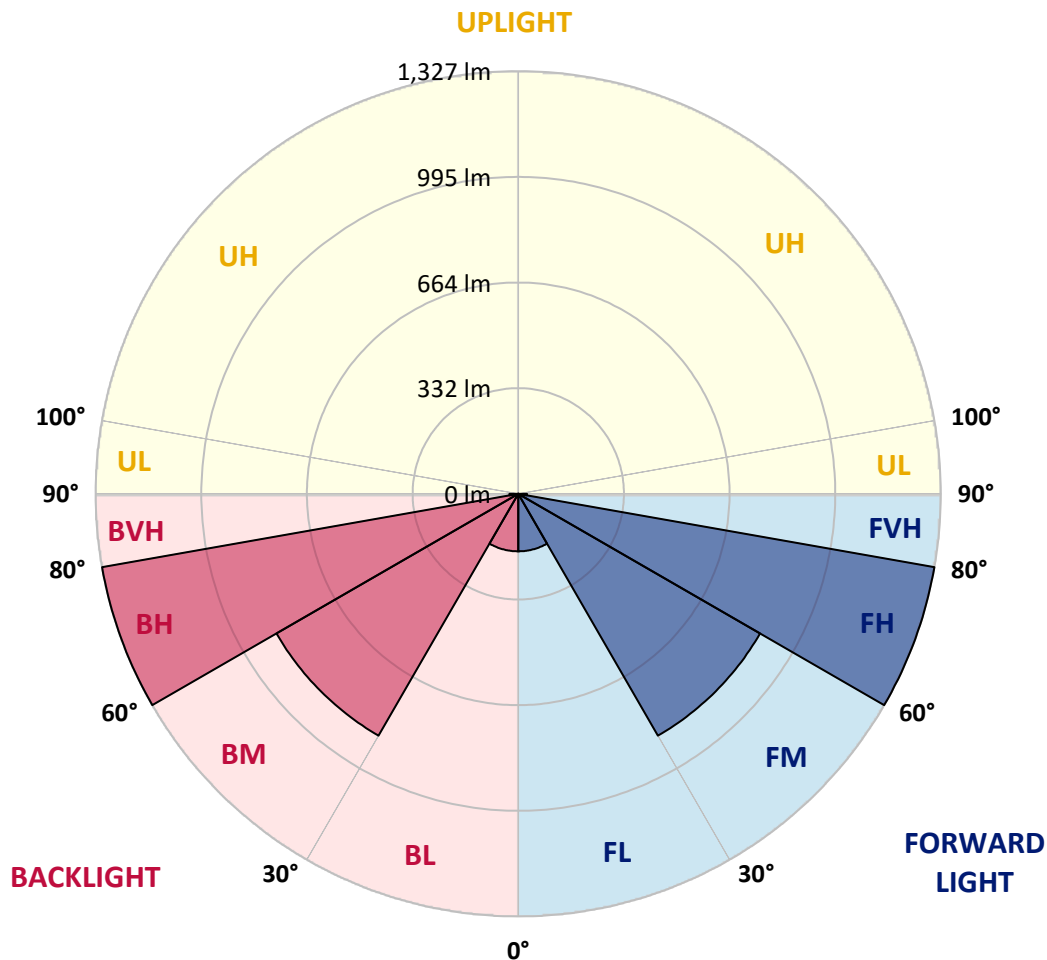
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	180.6	3.7			
FM (30°-60°)	877.0	18.2			
FH (60°-80°)	1327.2	27.5			G1/1800
FVH (80°-90°)	27.6	0.6			G1/100
BL (0°-30°)	180.6	3.7	B1/500		
BM (30°-60°)	877.0	18.2	B1/1000		
BH (60°-80°)	1327.2	27.5	B3/2500		G1/1800
BVH (80°-90°)	27.6	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	440.1	440.1	440.1	440.1	440.1	440.1	440.1	440.1	440.1	440.1	440.1
2.5°	437.4	438.6	438.1	437.1	437.1	436.3	437.1	437.6	438.4	438.8	438.6
5°	431.6	432.6	432.3	431.6	431.8	431.1	431.6	432.3	432.9	433.1	433.1
7.5°	426.6	427.5	427.1	425.8	425.8	425.1	425.3	426.1	426.8	427.1	427.1
10°	425.3	426.3	424.8	422.8	422.1	421.1	421.3	422.1	423.5	424.4	424.4
12.5°	425.8	426.6	425.1	422.1	421.3	420.2	420.2	421.1	423.0	424.0	424.4
15°	427.3	428.0	425.8	422.5	421.8	421.1	420.8	421.8	424.0	425.8	426.1
17.5°	430.1	430.8	427.3	422.8	421.8	422.1	421.8	422.5	426.1	429.4	429.4
20°	432.6	433.1	428.3	422.8	421.8	422.1	421.8	423.3	427.8	432.3	432.6
22.5°	433.4	433.9	429.4	424.6	423.8	424.0	423.8	425.3	429.6	434.1	434.1
25°	433.6	434.3	430.8	427.1	428.3	428.9	428.3	428.6	431.8	435.8	435.6
27.5°	437.4	438.4	435.1	431.8	432.6	432.3	433.1	433.9	436.3	440.3	439.3
30°	445.2	445.9	443.1	439.8	439.3	437.6	439.8	442.4	445.2	448.6	447.9
32.5°	457.9	459.4	455.9	452.4	450.2	449.2	450.9	455.2	458.9	462.7	461.1
35°	479.2	480.2	476.9	470.5	466.5	466.5	467.9	473.4	479.5	484.2	482.5
37.5°	509.3	510.6	504.8	497.0	491.0	491.0	493.0	498.8	507.8	514.6	512.1
40°	545.9	547.7	540.4	532.4	526.6	525.6	528.1	534.6	543.1	551.7	549.0
42.5°	590.1	592.0	582.5	575.5	571.0	571.0	572.3	578.3	586.1	596.6	595.8
45°	646.5	650.1	636.9	630.0	625.7	626.7	627.4	632.7	639.7	651.8	651.3
47.5°	713.7	717.2	703.5	696.2	695.4	700.2	697.1	700.9	704.7	718.4	714.4
50°	790.0	795.9	786.4	786.0	787.4	796.2	789.1	791.2	786.9	795.7	790.5
52.5°	883.2	892.0	890.2	893.3	910.1	928.1	912.0	905.1	889.0	891.7	882.4
55°	996.3	1009.6	1012.1	1030.2	1068.3	1105.2	1071.0	1042.7	1008.6	1002.3	992.6
57.5°	1124.9	1135.5	1147.6	1184.4	1255.6	1321.1	1255.6	1192.9	1139.3	1126.5	1117.5
60°	1263.4	1276.4	1288.0	1342.3	1448.2	1540.3	1446.2	1346.6	1275.7	1258.4	1243.3
62.5°	1412.1	1429.0	1436.9	1497.3	1620.7	1730.6	1622.5	1501.9	1423.1	1404.6	1389.5
65°	1554.8	1568.6	1577.6	1642.0	1759.9	1870.0	1767.9	1649.1	1568.0	1543.8	1531.8
67.5°	1621.2	1628.7	1650.9	1723.8	1848.2	1973.8	1869.3	1731.6	1641.0	1598.4	1598.9
70°	1524.0	1508.7	1561.8	1678.6	1858.7	2037.5	1882.8	1675.2	1564.4	1495.1	1511.7
72.5°	1177.6	1151.3	1243.6	1443.4	1738.4	1996.9	1750.4	1454.8	1301.0	1160.6	1195.5
75°	640.7	610.9	738.3	991.1	1386.3	1730.8	1418.1	1019.4	822.0	636.0	677.3
77.5°	180.8	169.5	272.3	479.5	833.8	1215.2	865.9	490.1	323.0	191.6	212.9
80°	55.5	53.7	72.8	144.4	354.1	582.0	340.3	146.2	92.6	58.4	61.7
82.5°	32.9	30.1	36.1	52.7	90.3	182.9	87.7	54.9	44.2	29.6	32.1
85°	18.8	17.5	21.3	25.6	30.3	38.8	25.3	26.0	23.6	15.8	16.5
87.5°	7.8	7.1	8.3	8.0	7.1	9.0	6.8	8.0	9.5	6.3	5.7
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)