

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: P959188

Luminaire Tested: **NAV-SB1A-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959188
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-SB1A-722-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3981.1 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

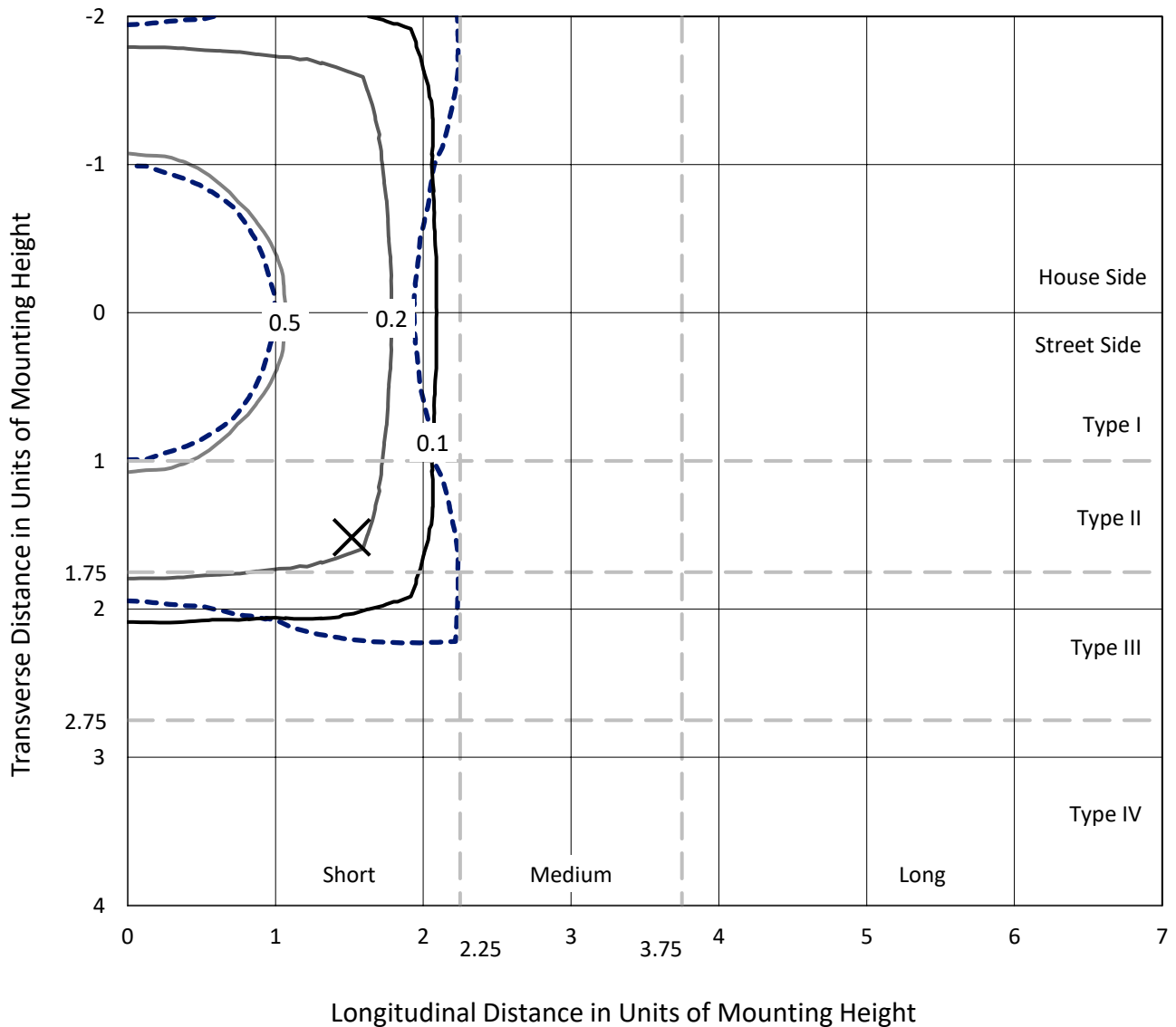
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

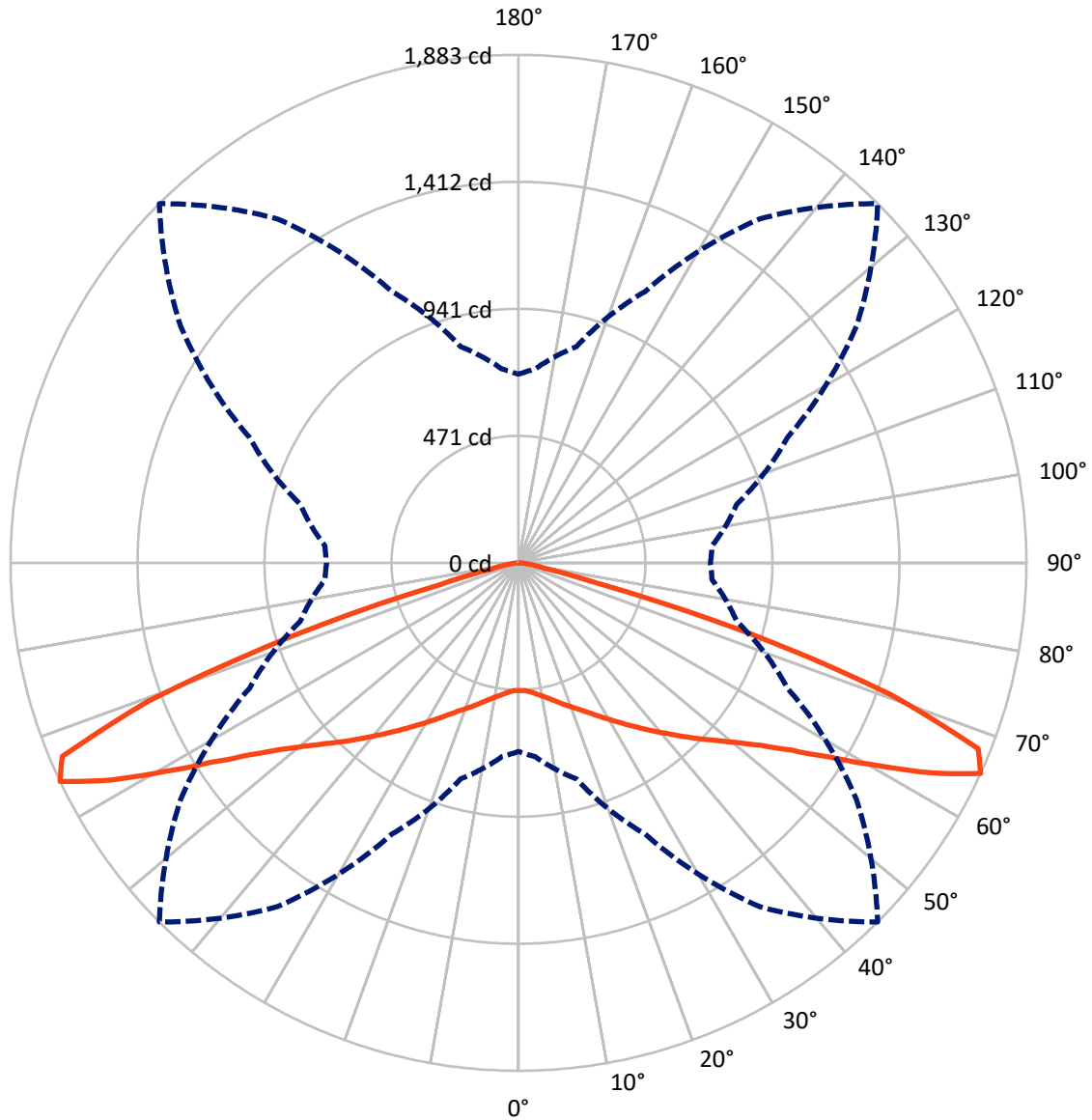
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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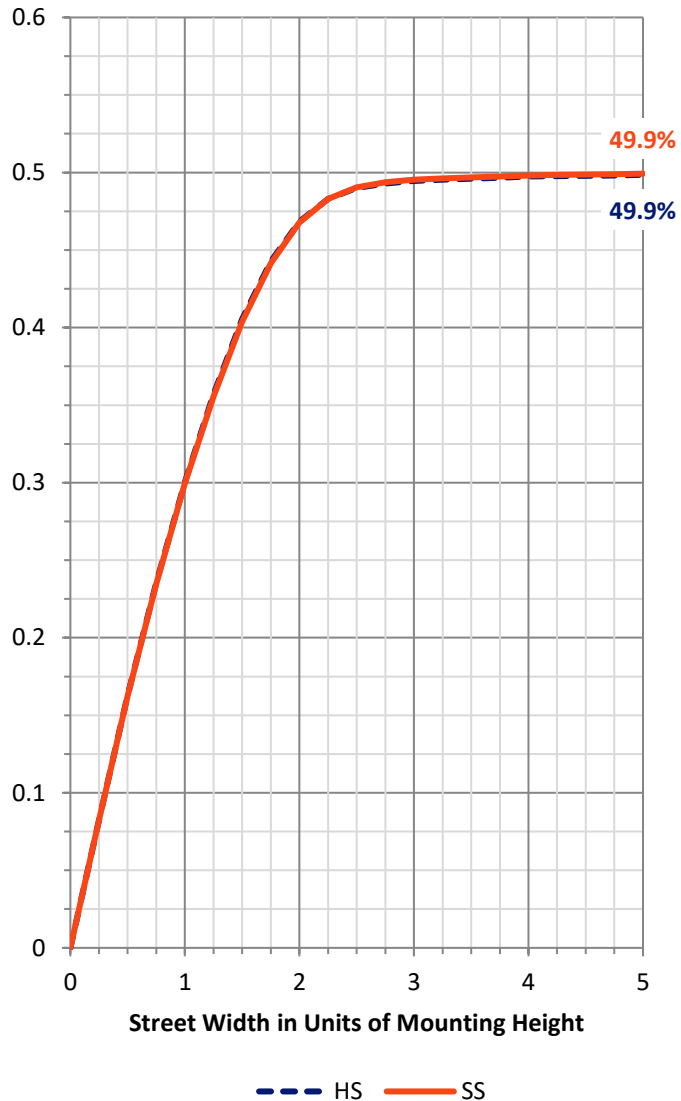
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1990.5	0.0	1990.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1990.5	0.0	1990.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3981.1	0.0	3981.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	1.2
10°-20°	152.6	3.8
20°-30°	288.1	7.2
30°-40°	471.7	11.8
40°-50°	731.4	18.4
50°-60°	1080.5	27.1
60°-70°	1028.5	25.8
70°-80°	166.0	4.2
80°-90°	15.6	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°	3981.1	100.0
0°-180°	3981.1	100.0

Coefficient of Utilization



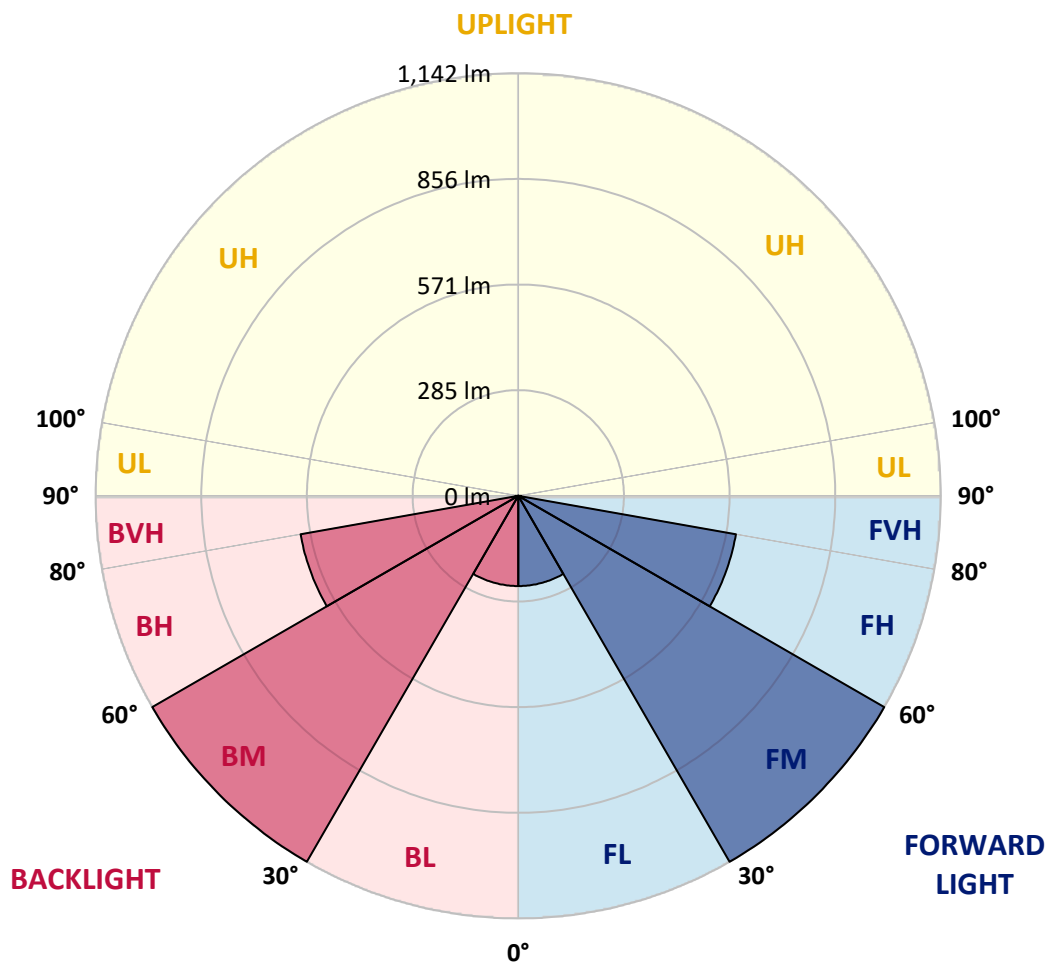
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.7	6.1			
FM (30°-60°)	1141.8	28.7			
FH (60°-80°)	597.2	15.0			G0/660
FVH (80°-90°)	7.8	0.2			G0/10
BL (0°-30°)	243.7	6.1	B1/500		
BM (30°-60°)	1141.8	28.7	B2/2500		
BH (60°-80°)	597.2	15.0	B2/1000		G0/660
BVH (80°-90°)	7.8	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-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	477.0	475.4	476.6	475.6	474.8	474.0	474.4	475.8	476.4	476.6	476.6
5°	483.4	482.0	482.6	482.6	481.1	480.8	481.0	482.0	483.2	483.2	483.2
7.5°	493.7	492.4	493.7	492.9	491.8	491.4	491.2	492.0	493.7	493.7	493.1
10°	506.4	504.7	505.5	505.1	503.8	503.2	503.0	504.2	505.7	505.5	505.1
12.5°	520.1	518.3	519.4	518.1	517.7	517.1	517.1	516.9	517.9	517.1	517.5
15°	535.6	534.3	534.7	533.9	534.5	534.1	532.5	531.7	532.1	530.9	531.2
17.5°	553.7	550.9	552.3	551.9	551.9	552.7	550.1	549.1	549.9	548.7	549.7
20°	574.6	571.8	572.5	571.6	570.6	571.4	568.3	569.1	569.7	568.9	570.6
22.5°	597.7	594.0	593.9	594.2	592.0	592.2	590.0	592.0	593.3	591.0	593.3
25°	621.2	617.4	620.0	619.0	616.2	616.8	615.2	617.3	618.2	615.4	618.6
27.5°	646.2	643.6	646.0	646.6	643.2	645.5	643.2	644.9	646.0	641.8	644.9
30°	675.4	672.7	675.0	676.5	672.5	676.3	674.3	675.6	675.7	670.8	673.7
32.5°	707.0	703.0	708.7	709.5	705.1	709.7	707.0	708.7	709.7	702.9	707.5
35°	745.8	740.9	747.2	746.2	742.4	746.2	743.8	746.2	748.7	740.5	745.5
37.5°	787.6	782.4	789.1	787.4	783.8	786.4	784.9	786.6	790.4	781.6	787.0
40°	833.5	827.2	836.3	833.1	829.7	829.3	830.1	831.2	836.1	826.4	829.5
42.5°	882.6	875.9	889.7	884.7	879.9	876.7	879.2	881.3	886.0	875.0	880.9
45°	938.8	931.0	948.9	943.0	935.4	928.9	933.0	936.0	943.0	929.8	936.6
47.5°	1000.7	991.9	1011.1	1009.3	996.9	982.6	992.1	1000.7	1005.9	989.9	995.3
50°	1061.3	1054.4	1079.6	1081.8	1066.6	1046.4	1059.8	1072.9	1074.2	1053.3	1055.9
52.5°	1118.0	1111.2	1147.7	1161.5	1147.9	1123.9	1138.2	1151.3	1140.7	1113.6	1114.4
55°	1163.3	1157.7	1204.3	1239.8	1244.4	1224.7	1233.0	1232.7	1197.8	1156.1	1157.5
57.5°	1174.2	1173.5	1232.3	1307.5	1355.5	1357.8	1341.3	1298.9	1224.1	1167.9	1164.3
60°	1124.3	1129.3	1210.0	1342.9	1470.7	1523.9	1452.1	1331.3	1194.2	1116.3	1107.2
62.5°	975.0	988.1	1085.4	1299.7	1563.7	1714.8	1541.0	1282.2	1072.0	970.4	964.3
65°	698.7	721.7	829.1	1109.2	1555.4	1882.6	1528.3	1100.2	837.1	719.9	711.2
67.5°	317.0	340.4	431.6	759.4	1352.1	1837.0	1348.9	767.4	453.3	341.5	336.6
70°	114.9	118.8	148.2	304.0	864.1	1463.7	901.1	306.2	157.6	126.6	125.0
72.5°	69.5	70.1	76.3	108.9	300.2	888.7	313.0	112.4	77.9	69.1	70.3
75°	44.2	43.8	54.3	66.5	106.5	299.8	111.6	66.5	54.1	49.3	49.7
77.5°	31.8	32.8	38.9	49.7	67.1	101.7	65.9	47.6	38.9	32.0	32.6
80°	23.8	24.4	28.4	38.7	47.2	63.3	41.9	35.2	29.3	20.0	20.6
82.5°	17.2	17.2	18.6	28.2	28.8	34.1	22.8	24.8	19.4	14.1	14.1
85°	10.1	9.9	11.6	16.8	15.0	12.6	10.4	15.2	12.2	8.8	8.6
87.5°	3.6	3.8	3.6	4.8	4.0	3.4	3.2	4.2	3.4	3.0	2.8
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)