

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: P959730

Luminaire Tested: **NAV-SB1B-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4718 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

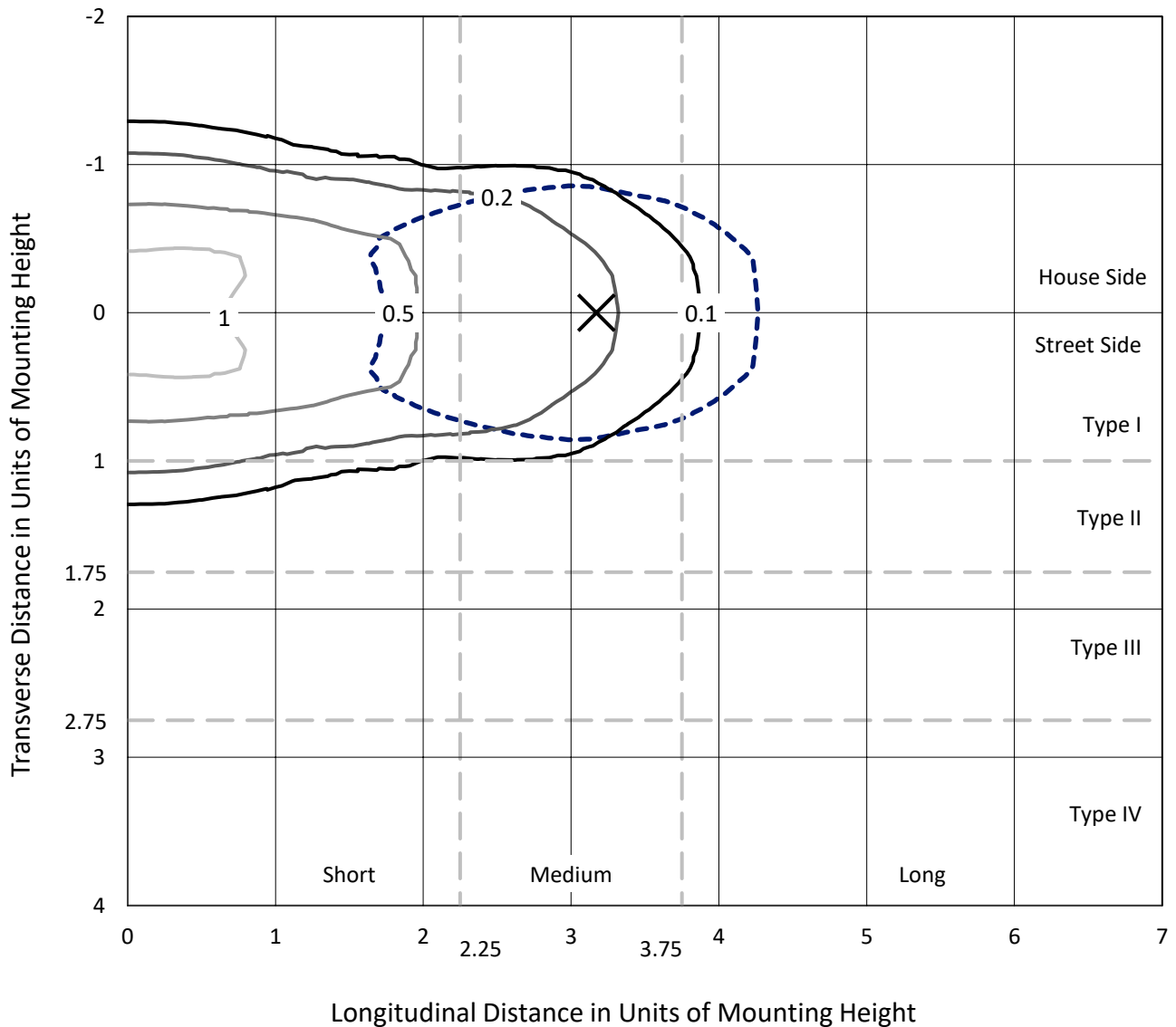
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

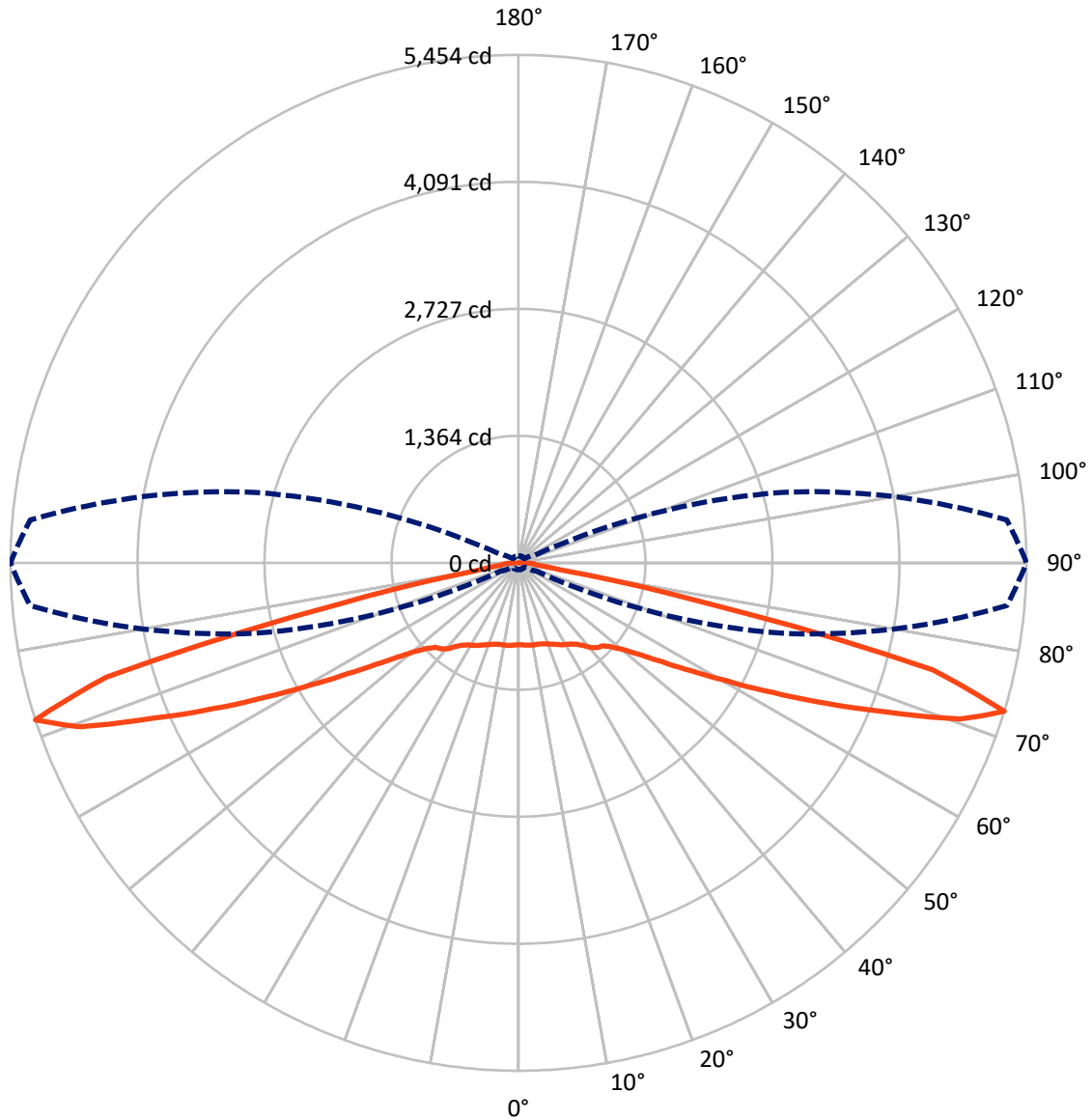
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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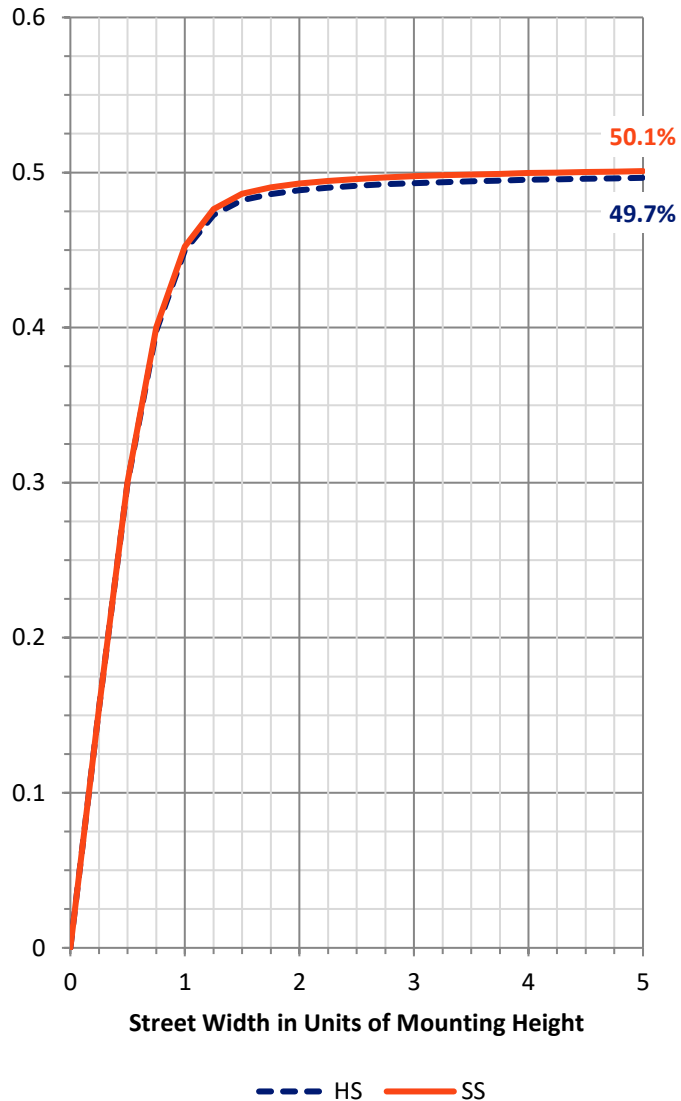
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2359.0	0.0	2359.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2359.0	0.0	2359.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4718.0	0.0	4718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.8
10°-20°	261.4	5.5
20°-30°	435.8	9.2
30°-40°	599.4	12.7
40°-50°	732.0	15.5
50°-60°	846.7	17.9
60°-70°	1009.5	21.4
70°-80°	704.6	14.9
80°-90°	43.3	0.9
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°	4718.0	100.0
0°-180°	4718.0	100.0

Coefficient of Utilization

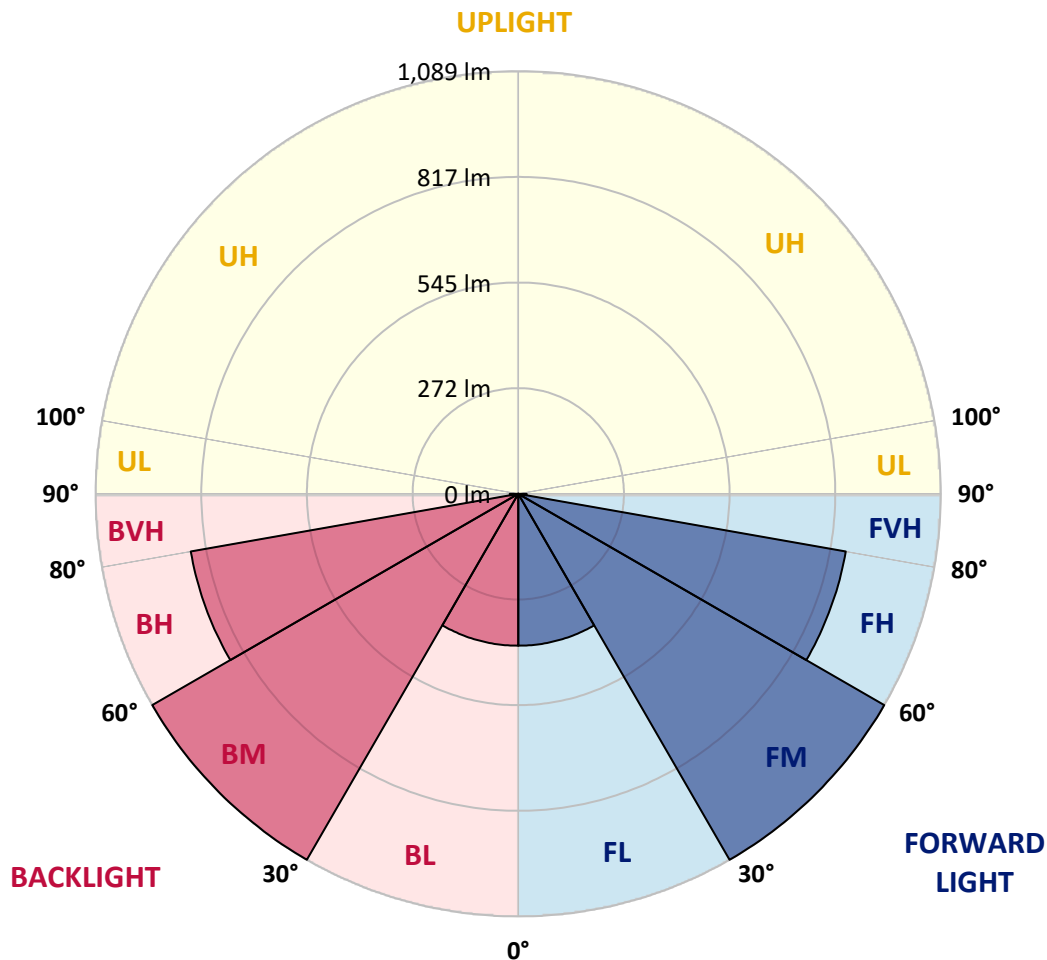


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.3	8.3			
FM (30°-60°)	1089.0	23.1			
FH (60°-80°)	857.0	18.2			G1/1800
FVH (80°-90°)	21.6	0.5			G1/100
BL (0°-30°)	391.3	8.3	B1/500		
BM (30°-60°)	1089.0	23.1	B2/2500		
BH (60°-80°)	857.0	18.2	B2/1000		G2/1000
BVH (80°-90°)	21.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	881.6	881.6	881.6	881.6	881.6	881.6	881.6	881.6	881.6	881.6	881.6
2.5°	882.4	883.3	883.3	882.6	884.4	882.8	882.8	882.1	882.8	882.1	882.1
5°	886.9	888.2	888.7	888.4	890.6	889.4	889.4	888.4	888.7	887.9	887.9
7.5°	895.4	897.2	898.2	899.4	902.7	901.2	900.2	897.2	896.0	893.9	893.9
10°	898.2	900.2	903.4	910.0	917.5	917.7	914.7	907.2	901.4	896.9	896.2
12.5°	889.6	892.4	899.1	912.5	929.3	936.0	931.3	918.7	907.4	899.4	898.2
15°	878.8	881.9	892.2	912.2	937.1	952.8	952.3	935.8	917.7	905.2	903.2
17.5°	862.0	865.1	879.9	907.9	943.1	969.1	976.1	959.1	933.8	917.0	914.2
20°	831.7	834.5	855.1	894.4	945.0	986.5	1004.7	989.7	958.1	935.3	931.0
22.5°	792.3	796.6	820.7	871.0	940.3	1004.5	1037.3	1027.0	986.5	954.9	949.0
25°	750.2	754.7	782.8	842.6	928.0	1017.5	1075.9	1069.4	1018.5	979.2	971.2
27.5°	713.9	718.6	749.3	814.2	909.0	1022.5	1114.1	1117.4	1057.4	1006.0	997.4
30°	685.3	689.8	722.4	791.4	884.4	1017.5	1147.4	1169.9	1097.1	1029.3	1017.0
32.5°	653.9	659.7	694.0	763.5	855.3	1005.5	1176.5	1226.9	1142.9	1054.4	1038.8
35°	614.3	619.6	655.7	725.4	817.1	986.2	1200.8	1290.1	1208.6	1092.5	1075.2
37.5°	566.2	571.2	607.0	677.7	779.3	959.1	1219.3	1361.3	1286.8	1147.4	1124.3
40°	517.8	522.5	556.2	624.6	733.9	924.6	1225.9	1431.0	1376.6	1222.9	1198.3
42.5°	473.4	477.6	508.5	572.2	683.1	880.4	1217.4	1491.7	1457.0	1275.5	1243.9
45°	432.6	436.3	463.6	523.1	630.2	826.7	1191.8	1556.9	1552.9	1313.1	1270.5
47.5°	385.9	389.7	418.0	475.4	577.2	763.7	1148.4	1621.0	1686.0	1398.4	1349.3
50°	329.0	332.2	361.3	420.5	522.3	696.8	1088.2	1671.5	1854.0	1527.6	1465.9
52.5°	261.5	265.1	293.4	352.5	457.2	624.8	1009.0	1704.4	2048.1	1716.1	1640.1
55°	194.5	197.1	221.7	274.8	376.4	542.8	909.7	1713.6	2268.2	1973.8	1878.8
57.5°	141.1	142.7	158.5	198.1	285.4	440.3	789.1	1689.5	2530.3	2304.3	2184.8
60°	114.4	114.8	119.6	137.1	198.3	324.5	643.4	1606.8	2814.6	2730.4	2579.7
62.5°	103.8	103.8	105.1	109.8	134.2	214.1	467.1	1435.3	3119.5	3268.7	3066.9
65°	96.6	96.6	97.1	99.3	105.8	136.4	294.9	1155.9	3376.6	3899.3	3644.1
67.5°	90.0	90.3	90.0	90.8	94.5	100.8	171.0	798.4	3514.9	4552.7	4277.2
70°	83.2	83.7	82.5	82.5	85.5	85.8	107.1	437.8	3400.1	5100.4	5027.9
72.5°	75.2	76.0	74.0	73.5	75.7	74.7	80.5	210.1	2919.2	5263.9	5454.4
75°	68.2	69.2	64.7	63.4	63.4	62.7	65.4	107.8	1894.6	4294.0	4592.9
77.5°	61.9	64.0	56.7	52.7	51.7	49.4	53.4	65.9	828.7	2016.0	1974.2
80°	51.1	53.9	46.6	41.9	40.1	37.6	42.1	46.1	246.5	468.1	448.3
82.5°	38.1	39.4	33.1	29.8	28.3	26.5	31.6	32.1	80.3	165.7	187.3
85°	24.3	24.8	20.3	17.5	16.8	16.1	20.1	17.5	30.5	121.9	177.0
87.5°	8.5	9.7	7.8	7.0	7.5	6.3	9.3	5.2	8.5	86.0	106.6
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)