

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: P959203

Luminaire Tested: **NAV-SB1A-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959203
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-SB1A-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3758.7 lumens
Efficiency: N/A
Efficacy: 121.6 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

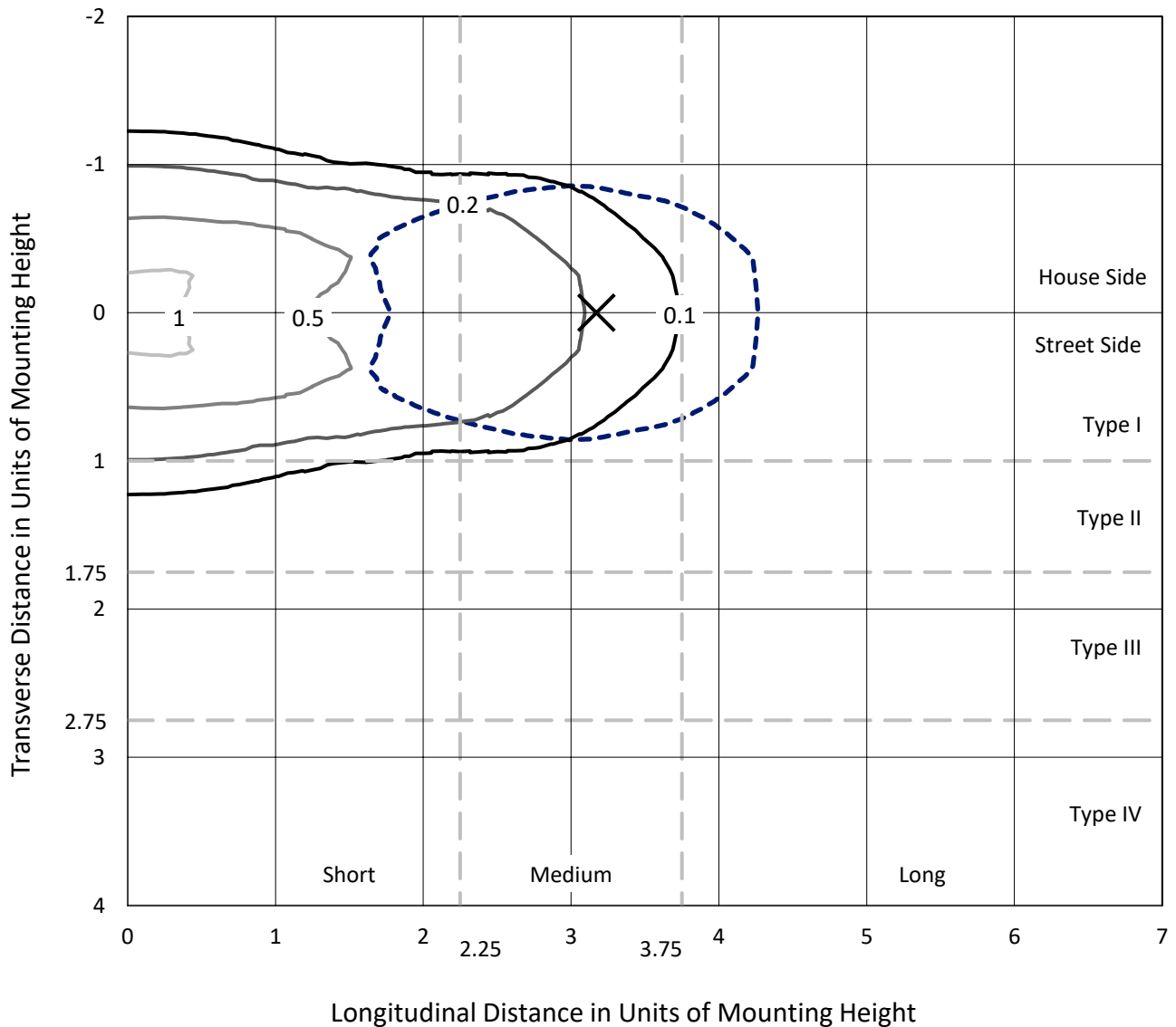
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

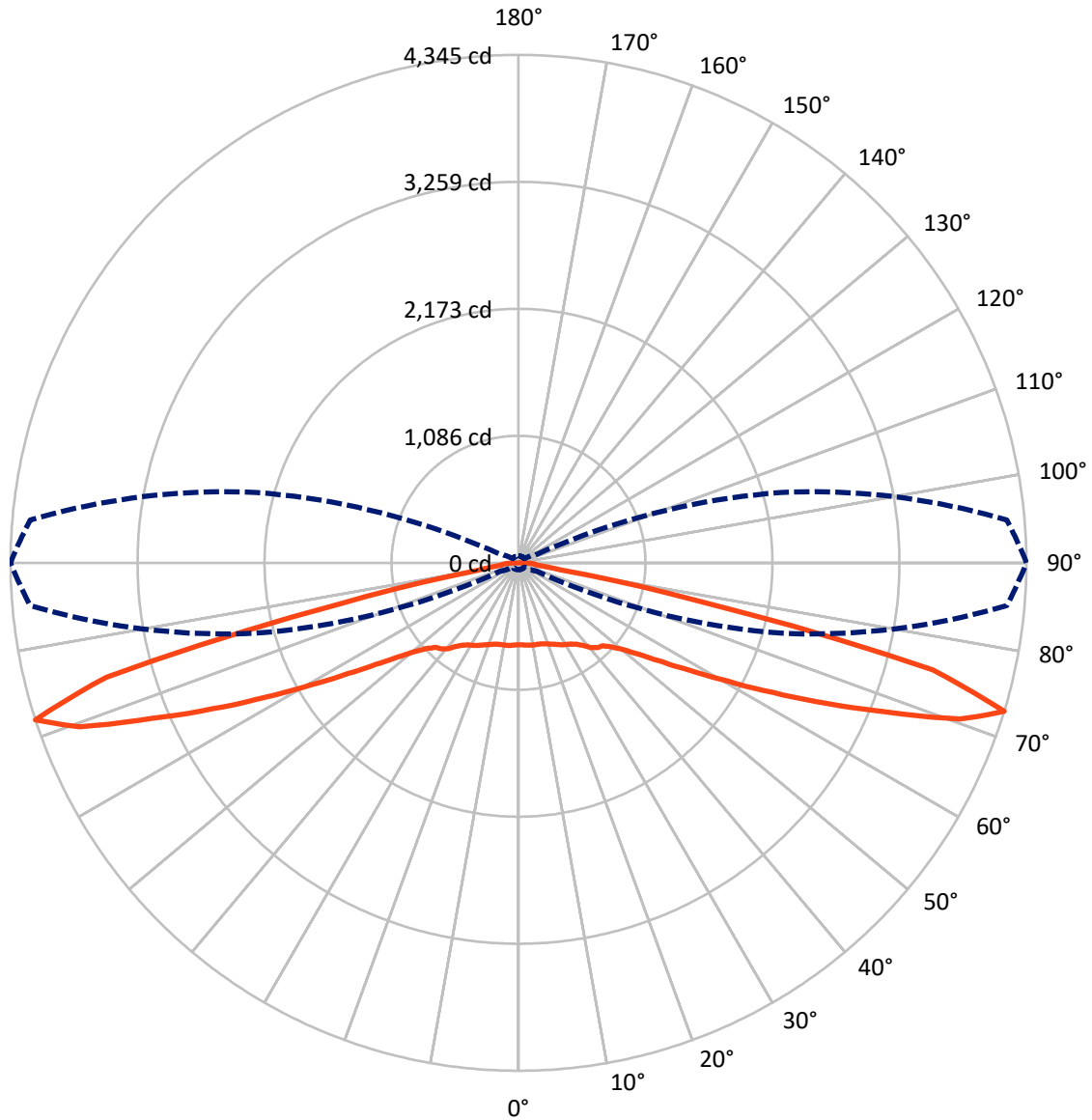
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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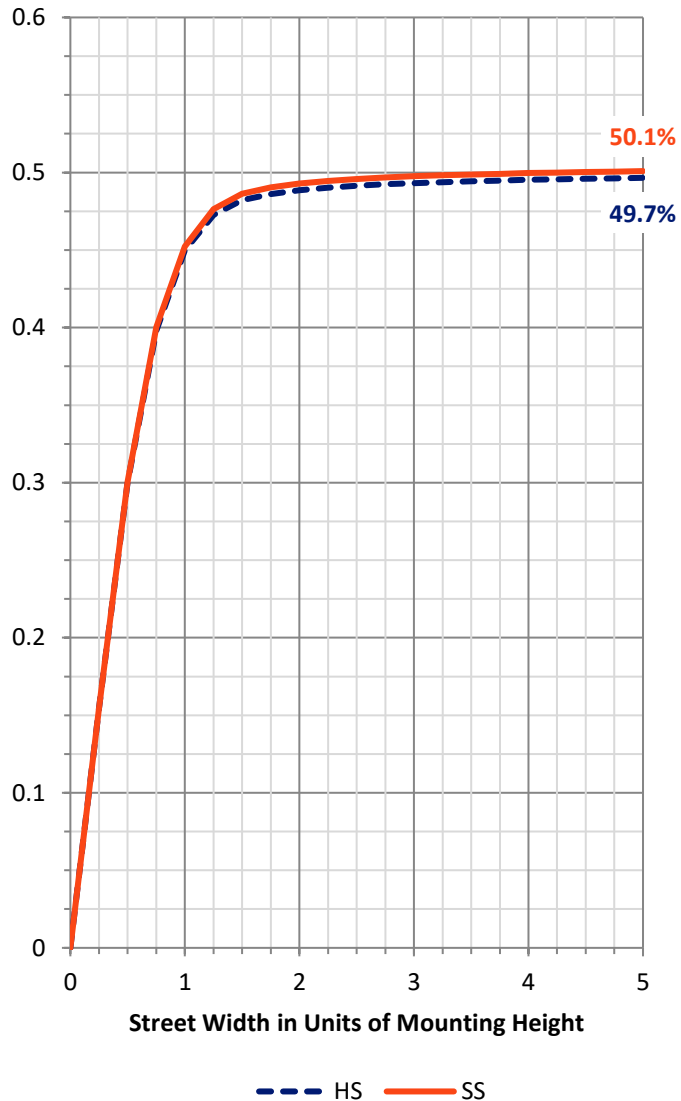
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1879.3	0.0	1879.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1879.3	0.0	1879.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	3758.7	0.0	3758.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	1.8
10°-20°	208.2	5.5
20°-30°	347.2	9.2
30°-40°	477.5	12.7
40°-50°	583.2	15.5
50°-60°	674.5	17.9
60°-70°	804.2	21.4
70°-80°	561.3	14.9
80°-90°	34.5	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°	3758.7	100.0
0°-180°	3758.7	100.0

Coefficient of Utilization

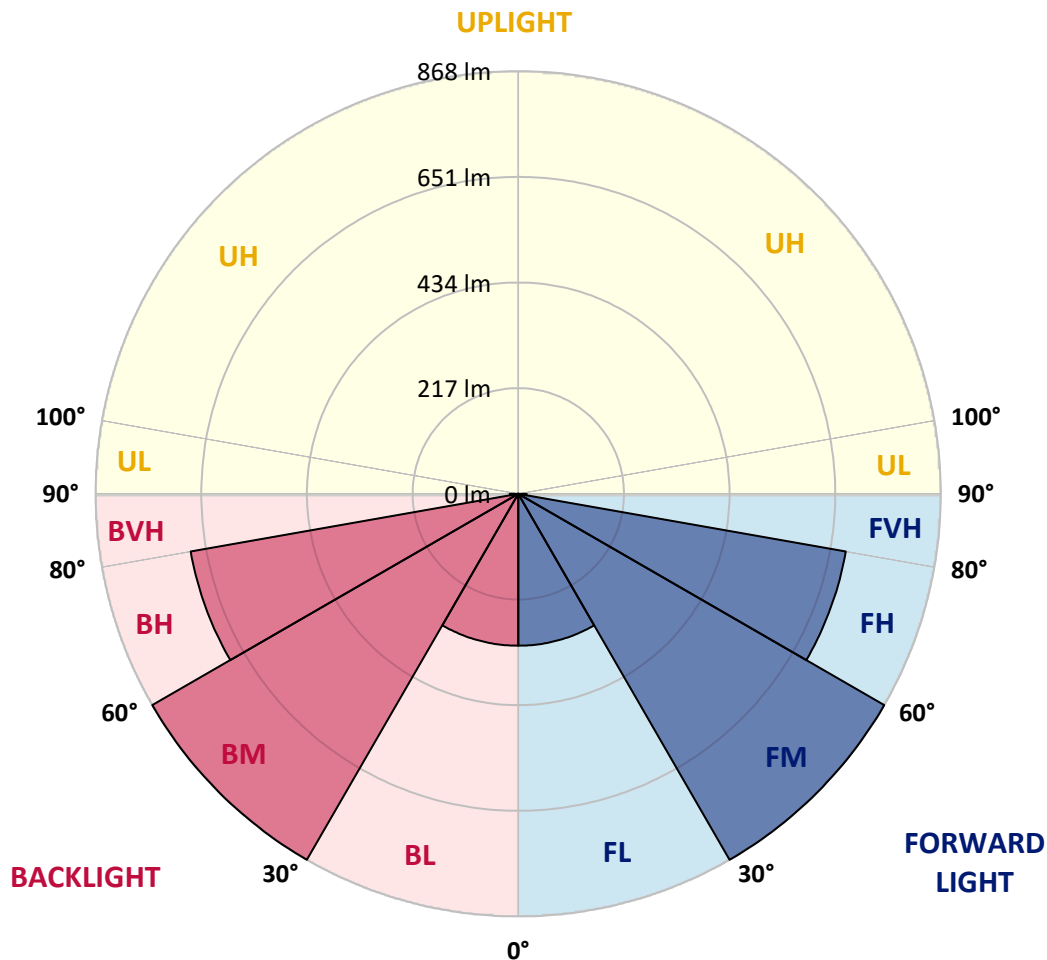


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.8	8.3			
FM (30°-60°)	867.6	23.1			
FH (60°-80°)	682.8	18.2			G1/1800
FVH (80°-90°)	17.2	0.5			G1/100
BL (0°-30°)	311.8	8.3	B1/500		
BM (30°-60°)	867.6	23.1	B1/1000		
BH (60°-80°)	682.8	18.2	B2/1000		G2/1000
BVH (80°-90°)	17.2	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°	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3	702.3
2.5°	702.9	703.8	703.8	703.2	704.6	703.4	703.4	702.7	703.4	702.7	702.7
5°	706.5	707.6	708.0	707.8	709.5	708.6	708.6	707.8	708.0	707.4	707.4
7.5°	713.3	714.7	715.6	716.6	719.1	717.9	717.1	714.7	713.7	712.2	712.2
10°	715.6	717.1	719.8	724.9	730.9	731.1	728.7	722.7	718.1	714.5	713.9
12.5°	708.8	710.9	716.4	726.9	740.3	745.7	741.9	732.0	722.9	716.6	715.6
15°	700.2	702.5	710.7	726.7	746.5	759.1	758.7	745.5	731.1	721.1	719.6
17.5°	686.7	689.2	701.0	723.3	751.3	772.0	777.7	764.0	743.9	730.5	728.4
20°	662.6	664.8	681.2	712.6	752.9	785.9	800.4	788.4	763.3	745.1	741.7
22.5°	631.2	634.7	653.8	693.9	749.1	800.2	826.4	818.3	785.9	760.7	756.0
25°	597.7	601.3	623.6	671.2	739.3	810.6	857.2	852.0	811.4	780.0	773.7
27.5°	568.7	572.5	596.9	648.6	724.2	814.6	887.5	890.1	842.3	801.4	794.7
30°	545.9	549.5	575.5	630.5	704.6	810.6	914.1	932.0	873.9	820.0	810.3
32.5°	521.0	525.5	552.9	608.2	681.4	801.0	937.3	977.4	910.5	840.0	827.6
35°	489.4	493.6	522.3	577.9	651.0	785.7	956.6	1027.8	962.8	870.3	856.6
37.5°	451.1	455.0	483.6	540.0	620.8	764.0	971.4	1084.4	1025.2	914.1	895.7
40°	412.5	416.3	443.1	497.6	584.7	736.5	976.6	1140.0	1096.6	974.3	954.7
42.5°	377.1	380.6	405.1	455.8	544.2	701.3	969.9	1188.4	1160.8	1016.2	991.0
45°	344.6	347.6	369.3	416.7	501.9	658.6	949.5	1240.2	1237.1	1046.1	1012.2
47.5°	307.4	310.5	333.0	378.7	459.8	608.4	914.9	1291.4	1343.2	1114.1	1074.9
50°	262.1	264.7	287.8	335.0	416.0	555.1	866.9	1331.6	1477.0	1216.9	1167.8
52.5°	208.4	211.2	233.7	280.8	364.2	497.8	803.8	1357.7	1631.6	1367.1	1306.6
55°	155.0	157.0	176.6	218.9	299.8	432.4	724.7	1365.1	1807.0	1572.5	1496.8
57.5°	112.4	113.7	126.3	157.8	227.3	350.8	628.6	1345.9	2015.8	1835.8	1740.4
60°	91.1	91.5	95.3	109.3	158.1	258.5	512.6	1280.0	2242.3	2175.2	2055.1
62.5°	82.7	82.7	83.7	87.5	106.9	170.6	372.2	1143.4	2485.2	2604.0	2443.2
65°	76.9	76.9	77.3	79.1	84.3	108.6	234.9	920.9	2689.9	3106.5	2903.1
67.5°	71.8	72.0	71.8	72.3	75.3	80.3	136.2	636.0	2800.2	3627.0	3407.5
70°	66.3	66.7	65.7	65.7	68.2	68.4	85.3	348.8	2708.7	4063.3	4005.5
72.5°	60.0	60.6	58.9	58.5	60.4	59.6	64.2	167.4	2325.6	4193.5	4345.3
75°	54.3	55.1	51.6	50.5	50.5	49.9	52.2	85.9	1509.4	3420.8	3658.9
77.5°	49.3	50.9	45.1	41.9	41.1	39.4	42.5	52.6	660.2	1606.1	1572.7
80°	40.8	42.9	37.1	33.3	32.0	29.9	33.5	36.8	196.4	373.0	357.2
82.5°	30.3	31.4	26.3	23.8	22.5	21.2	25.2	25.5	64.0	132.0	149.2
85°	19.4	19.8	16.2	13.9	13.4	12.8	16.0	13.9	24.4	97.1	141.0
87.5°	6.8	7.8	6.1	5.6	5.9	5.0	7.4	4.2	6.8	68.5	84.9
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)