

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: P959234

Luminaire Tested: **NAV-SB1A-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959234
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-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4219.9 lumens
Efficiency: N/A
Efficacy: 136.6 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

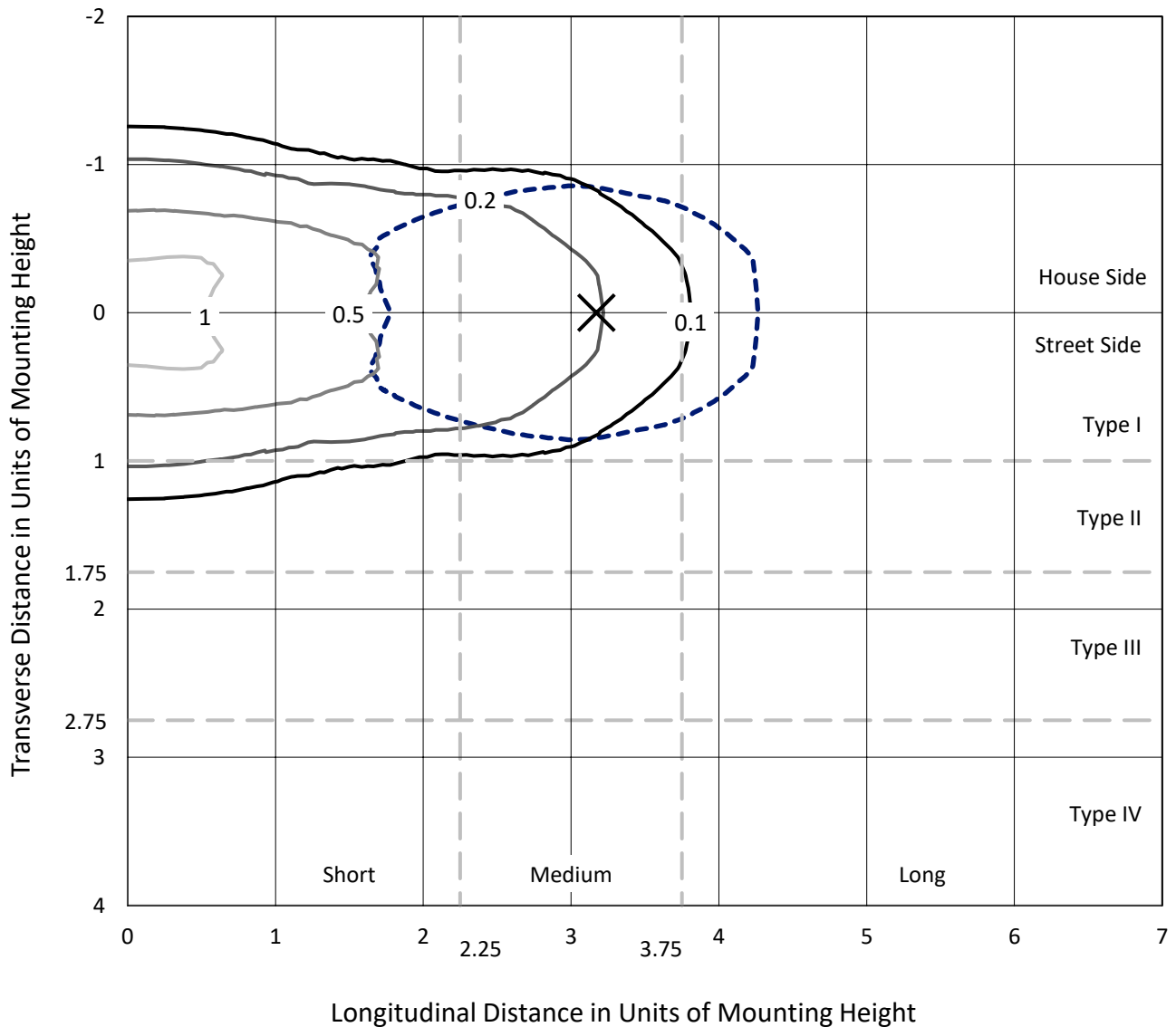
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959234
 CATALOG NUMBER: NAV-SB1A-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

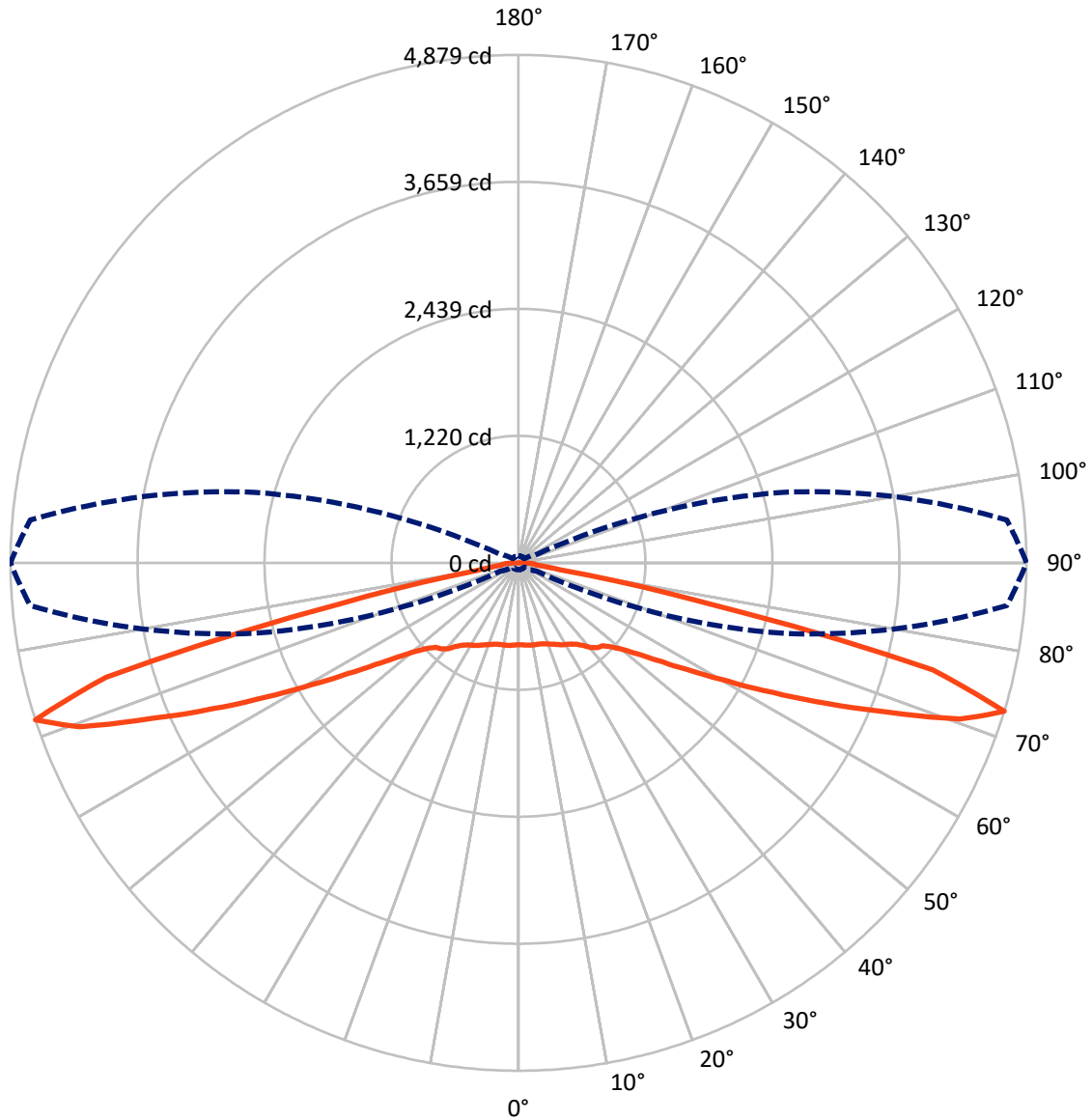
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type I - Short - N/A

REPORT NUMBER: P959234
CATALOG NUMBER: NAV-SB1A-727-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P959234
 CATALOG NUMBER: NAV-SB1A-727-U-T1

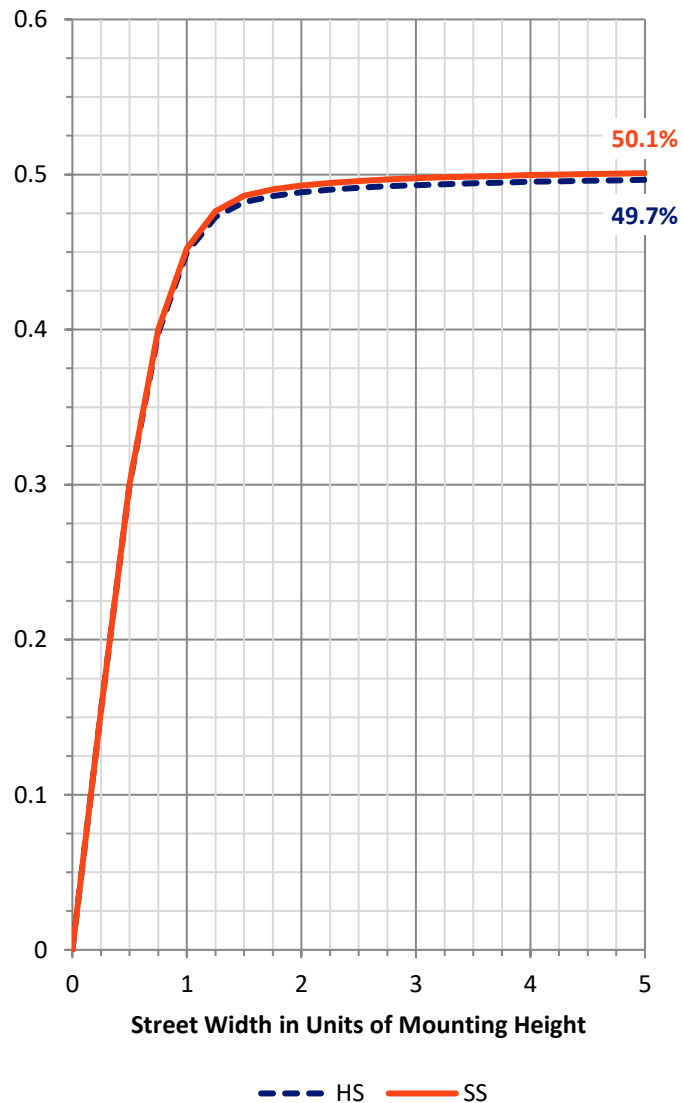
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2110.0	0.0	2110.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2110.0	0.0	2110.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4219.9	0.0	4219.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	1.8
10°-20°	233.8	5.5
20°-30°	389.8	9.2
30°-40°	536.1	12.7
40°-50°	654.7	15.5
50°-60°	757.3	17.9
60°-70°	902.9	21.4
70°-80°	630.2	14.9
80°-90°	38.7	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°	4219.9	100.0
0°-180°	4219.9	100.0

Coefficient of Utilization

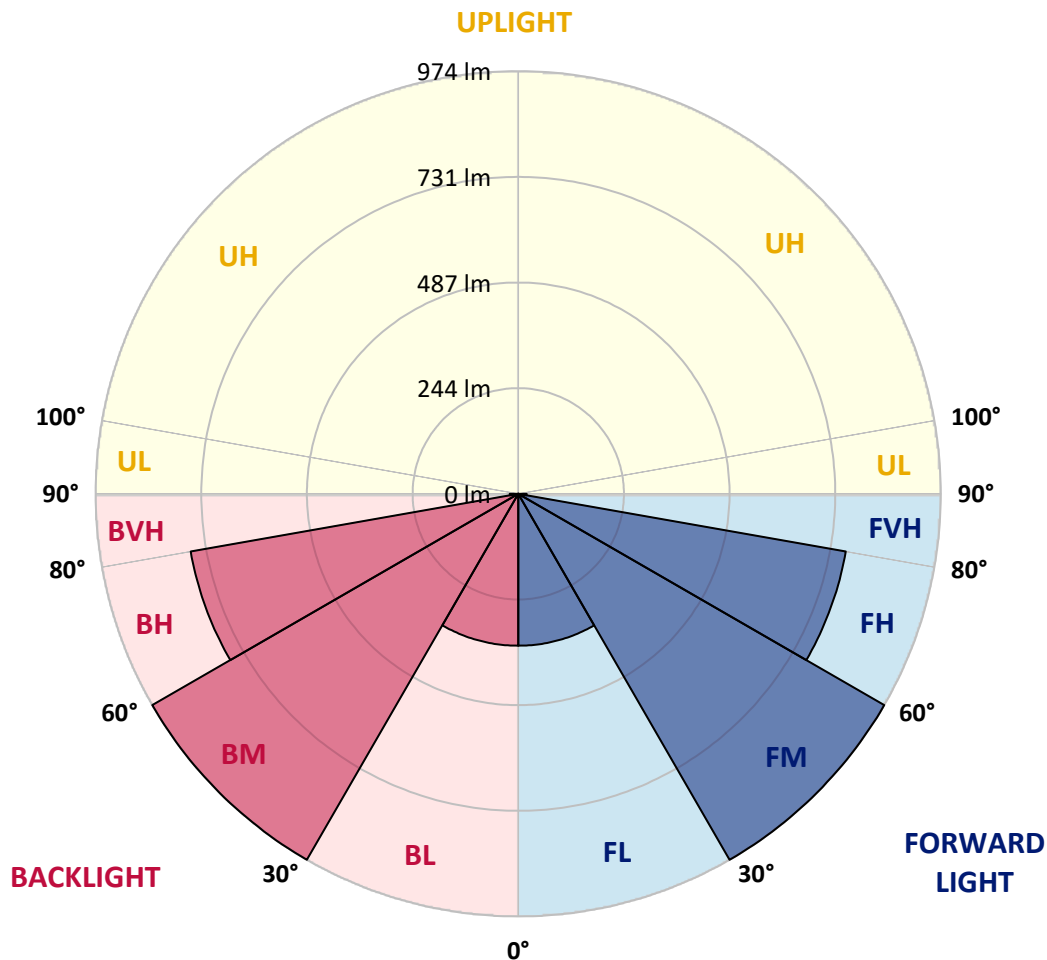


REPORT NUMBER: P959234
 CATALOG NUMBER: NAV-SB1A-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	350.0	8.3			
FM (30°-60°)	974.0	23.1			
FH (60°-80°)	766.5	18.2			G1/1800
FVH (80°-90°)	19.4	0.5			G1/100
BL (0°-30°)	350.0	8.3	B1/500		
BM (30°-60°)	974.0	23.1	B1/1000		
BH (60°-80°)	766.5	18.2	B2/1000		G2/1000
BVH (80°-90°)	19.4	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



REPORT NUMBER: P959234
 CATALOG NUMBER: NAV-SB1A-727-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5	788.5
2.5°	789.2	790.1	790.1	789.5	791.0	789.7	789.7	788.9	789.7	788.9	788.9
5°	793.2	794.4	794.8	794.6	796.6	795.5	795.5	794.6	794.8	794.2	794.2
7.5°	800.8	802.5	803.3	804.4	807.4	806.1	805.1	802.5	801.3	799.5	799.5
10°	803.3	805.1	808.0	813.8	820.6	820.8	818.2	811.4	806.3	802.3	801.6
12.5°	795.7	798.2	804.2	816.1	831.2	837.2	832.9	821.7	811.6	804.4	803.3
15°	786.1	788.7	798.0	815.9	838.1	852.2	851.8	837.0	820.8	809.6	807.8
17.5°	771.0	773.8	787.0	812.1	843.5	866.8	873.1	857.8	835.2	820.2	817.6
20°	743.9	746.4	764.8	800.0	845.3	882.3	898.6	885.2	856.9	836.5	832.7
22.5°	708.7	712.5	734.0	779.1	841.0	898.4	927.8	918.6	882.3	854.0	848.9
25°	671.1	675.1	700.2	753.6	830.0	910.1	962.4	956.5	911.0	875.8	868.6
27.5°	638.5	642.8	670.1	728.2	813.0	914.6	996.4	999.4	945.8	899.7	892.2
30°	612.9	616.9	646.2	707.8	791.0	910.1	1026.2	1046.4	981.2	920.7	909.7
32.5°	584.9	590.1	620.7	682.9	765.0	899.3	1052.3	1097.4	1022.2	943.1	929.2
35°	549.5	554.2	586.5	648.8	730.9	882.0	1074.0	1153.8	1081.0	977.1	961.7
37.5°	506.5	510.9	542.9	606.2	697.0	857.8	1090.6	1217.6	1151.0	1026.2	1005.6
40°	463.1	467.4	497.4	558.6	656.4	826.9	1096.4	1279.9	1231.2	1093.8	1071.8
42.5°	423.4	427.2	454.8	511.8	610.9	787.4	1088.9	1334.1	1303.3	1140.8	1112.6
45°	386.8	390.2	414.7	467.8	563.5	739.4	1066.0	1392.5	1388.9	1174.5	1136.4
47.5°	345.1	348.5	373.8	425.2	516.3	683.2	1027.2	1449.9	1508.0	1250.8	1206.8
50°	294.3	297.1	323.2	376.1	467.2	623.2	973.3	1495.0	1658.2	1366.2	1311.1
52.5°	233.9	237.1	262.4	315.3	408.9	558.9	902.5	1524.4	1831.9	1534.9	1467.0
55°	174.0	176.3	198.2	245.8	336.6	485.5	813.6	1532.7	2028.8	1765.5	1680.5
57.5°	126.3	127.6	141.8	177.2	255.2	393.8	705.8	1511.2	2263.1	2061.1	1954.1
60°	102.3	102.7	107.0	122.7	177.4	290.2	575.4	1437.2	2517.4	2442.1	2307.3
62.5°	92.9	92.9	94.0	98.2	120.0	191.6	417.8	1283.7	2790.2	2923.6	2743.1
65°	86.3	86.3	86.8	88.8	94.6	122.0	263.7	1033.9	3020.1	3487.7	3259.3
67.5°	80.5	80.8	80.5	81.2	84.6	90.2	152.9	714.1	3143.9	4072.1	3825.6
70°	74.4	74.9	73.8	73.8	76.5	76.7	95.7	391.5	3041.1	4561.9	4497.1
72.5°	67.2	68.0	66.1	65.7	67.8	66.8	72.0	188.0	2611.0	4708.1	4878.6
75°	61.0	61.9	57.9	56.8	56.8	56.1	58.5	96.5	1694.6	3840.7	4108.0
77.5°	55.4	57.2	50.6	47.0	46.2	44.2	47.8	58.9	741.2	1803.2	1765.7
80°	45.7	48.2	41.7	37.4	35.9	33.6	37.7	41.3	220.5	418.7	401.0
82.5°	34.1	35.3	29.6	26.6	25.3	23.8	28.3	28.7	71.8	148.2	167.5
85°	21.7	22.2	18.1	15.7	15.1	14.3	17.9	15.7	27.4	109.0	158.4
87.5°	7.6	8.7	7.0	6.3	6.8	5.6	8.3	4.7	7.6	76.9	95.3
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)