

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: P959420

Luminaire Tested: **NAV-SB1A-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959420
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-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

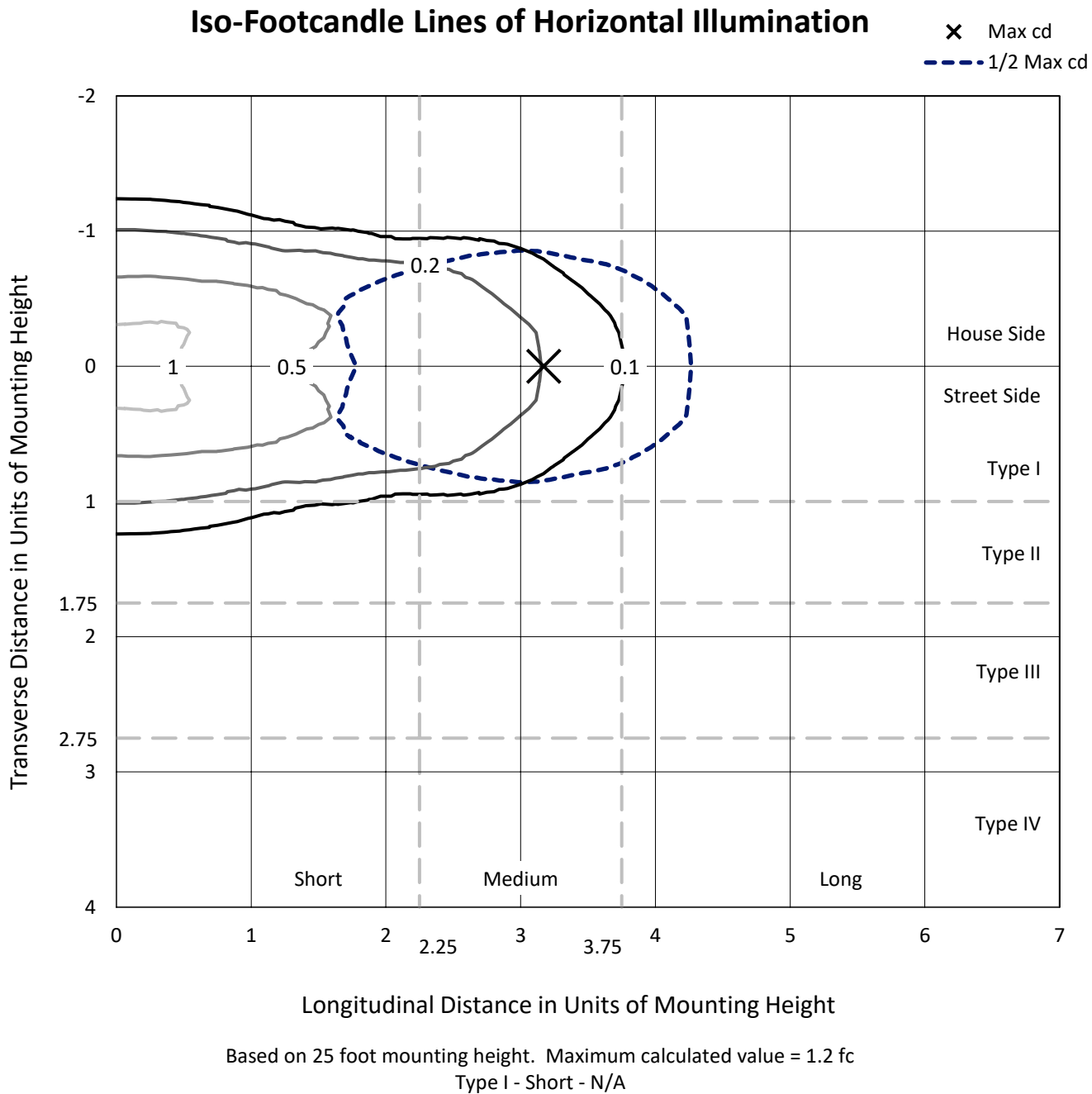
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3956.5 lumens
Efficiency: N/A
Efficacy: 128.0 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

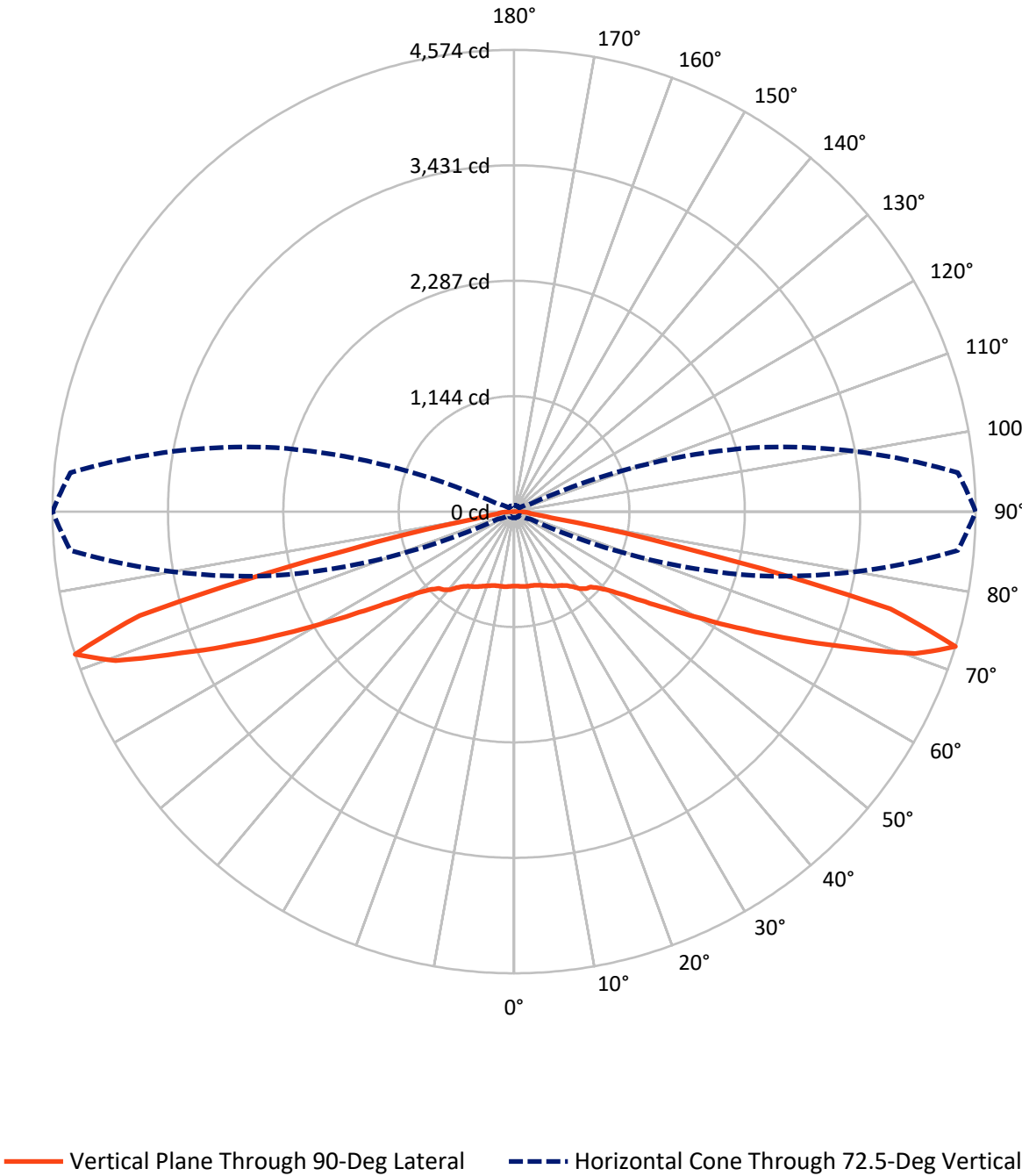


REPORT NUMBER: P959420
CATALOG NUMBER: NAV-SB1A-827-U-T1



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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1978.3	0.0	1978.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1978.3	0.0	1978.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	3956.5	0.0	3956.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	1.8
10°-20°	219.2	5.5
20°-30°	365.5	9.2
30°-40°	502.6	12.7
40°-50°	613.9	15.5
50°-60°	710.0	17.9
60°-70°	846.6	21.4
70°-80°	590.8	14.9
80°-90°	36.3	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°	3956.5	100.0
0°-180°	3956.5	100.0

Coefficient of Utilization



REPORT NUMBER: P959420

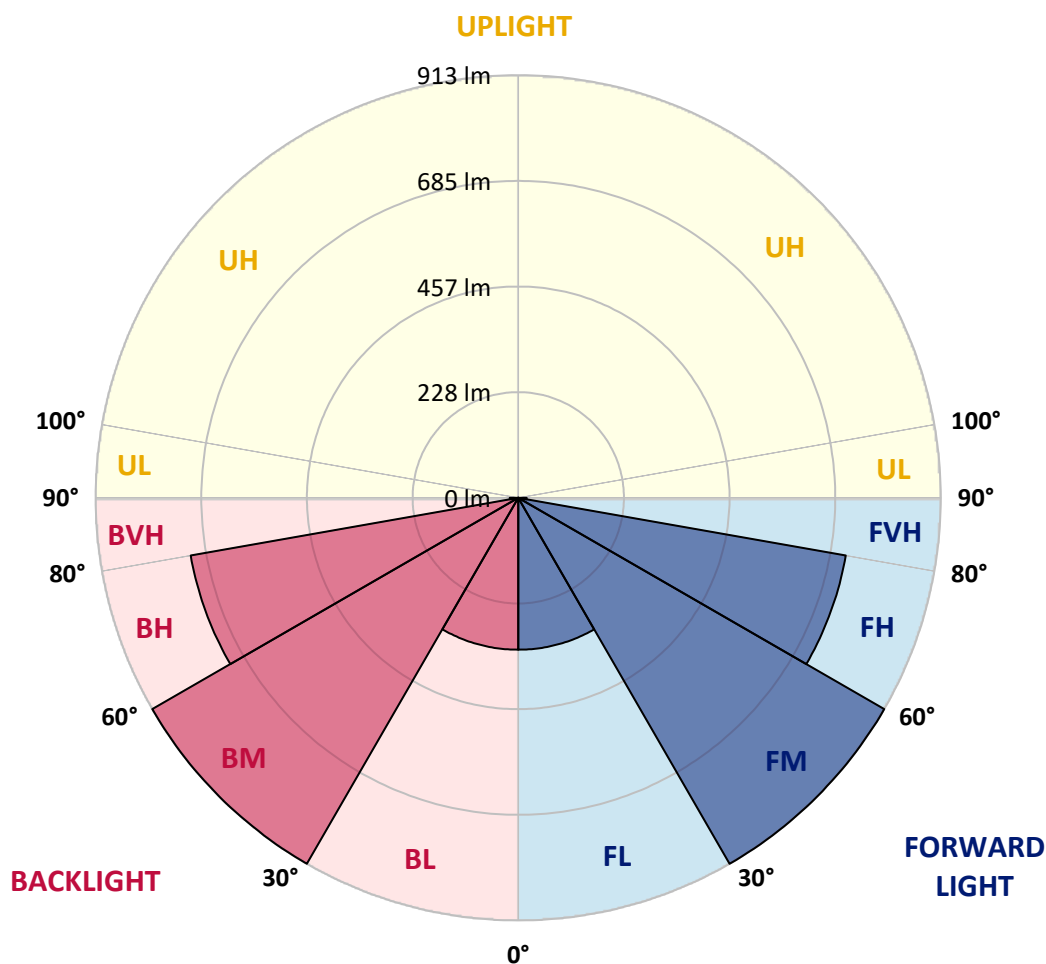
CATALOG NUMBER: NAV-SB1A-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.2	8.3			
FM	(30°-60°)	913.2	23.1			
FH	(60°-80°)	718.7	18.2			G1/1800
FVH	(80°-90°)	18.1	0.5			G1/100
BL	(0°-30°)	328.2	8.3	B1/500		
BM	(30°-60°)	913.2	23.1	B1/1000		
BH	(60°-80°)	718.7	18.2	B2/1000		G2/1000
BVH	(80°-90°)	18.1	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: P959420

CATALOG NUMBER: NAV-SB1A-827-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3
2.5°	739.9	740.8	740.8	740.2	741.6	740.4	740.4	739.7	740.4	739.7	739.7
5°	743.7	744.8	745.2	745.0	746.9	745.8	745.8	745.0	745.2	744.6	744.6
7.5°	750.9	752.3	753.2	754.2	757.0	755.7	754.9	752.3	751.3	749.6	749.6
10°	753.2	754.9	757.6	763.1	769.4	769.6	767.1	760.8	755.9	752.1	751.5
12.5°	746.0	748.4	754.0	765.2	779.3	784.9	780.9	770.4	761.0	754.2	753.2
15°	737.0	739.5	748.1	765.0	785.8	799.0	798.6	784.7	769.6	759.1	757.4
17.5°	722.9	725.4	737.8	761.4	790.8	812.7	818.6	804.3	783.1	769.0	766.7
20°	697.5	699.8	717.0	750.0	792.5	827.2	842.6	829.9	803.5	784.3	780.7
22.5°	664.5	668.0	688.2	730.5	788.5	842.3	869.9	861.3	827.2	800.7	795.9
25°	629.1	632.9	656.5	706.5	778.2	853.3	902.3	896.8	854.1	821.1	814.4
27.5°	598.6	602.6	628.3	682.8	762.2	857.5	934.2	937.0	886.7	843.6	836.5
30°	574.7	578.4	605.8	663.6	741.6	853.3	962.2	981.1	919.9	863.2	852.9
32.5°	548.4	553.2	582.0	640.3	717.2	843.2	986.6	1028.9	958.4	884.2	871.1
35°	515.2	519.6	549.8	608.3	685.3	827.0	1007.0	1081.9	1013.5	916.1	901.7
37.5°	474.8	479.0	509.1	568.4	653.5	804.3	1022.5	1141.5	1079.1	962.2	942.9
40°	434.2	438.2	466.4	523.8	615.5	775.3	1028.0	1200.0	1154.4	1025.5	1004.9
42.5°	397.0	400.6	426.4	479.8	572.8	738.3	1020.9	1250.9	1221.9	1069.7	1043.1
45°	362.7	365.8	388.8	438.6	528.4	693.3	999.4	1305.5	1302.2	1101.2	1065.5
47.5°	323.6	326.8	350.5	398.7	484.0	640.5	963.1	1359.4	1413.9	1172.7	1131.5
50°	275.8	278.6	303.0	352.6	438.0	584.4	912.6	1401.7	1554.7	1280.9	1229.3
52.5°	219.4	222.2	246.0	295.6	383.3	524.0	846.1	1429.3	1717.5	1439.1	1375.3
55°	163.2	165.2	185.8	230.4	315.6	455.2	762.9	1436.9	1902.1	1655.3	1575.5
57.5°	118.4	119.6	132.9	166.2	239.3	369.2	661.7	1416.9	2121.9	1932.4	1832.1
60°	95.8	96.4	100.3	115.0	166.4	272.1	539.6	1347.5	2360.3	2289.6	2163.3
62.5°	87.0	87.0	88.1	92.1	112.5	179.6	391.8	1203.6	2616.0	2741.1	2571.8
65°	81.0	81.0	81.4	83.2	88.8	114.4	247.2	969.3	2831.6	3270.0	3055.8
67.5°	75.4	75.7	75.4	76.2	79.2	84.6	143.4	669.5	2947.6	3817.9	3586.8
70°	69.8	70.2	69.2	69.2	71.8	72.0	89.8	367.2	2851.2	4277.1	4216.3
72.5°	63.0	63.8	62.0	61.6	63.6	62.6	67.5	176.2	2448.0	4414.3	4574.1
75°	57.2	58.0	54.2	53.2	53.2	52.6	54.8	90.4	1588.9	3600.9	3851.5
77.5°	52.0	53.6	47.6	44.2	43.4	41.4	44.8	55.4	694.9	1690.5	1655.5
80°	42.8	45.2	39.2	35.2	33.6	31.6	35.4	38.6	206.7	392.6	376.0
82.5°	32.0	33.0	27.8	25.0	23.8	22.2	26.4	27.0	67.2	139.0	157.0
85°	20.4	20.8	17.0	14.8	14.0	13.4	16.8	14.8	25.6	102.2	148.4
87.5°	7.2	8.2	6.6	5.8	6.4	5.2	7.8	4.4	7.2	72.2	89.4
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)