

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: P959451

Luminaire Tested: **NAV-SB1A-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959451
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-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

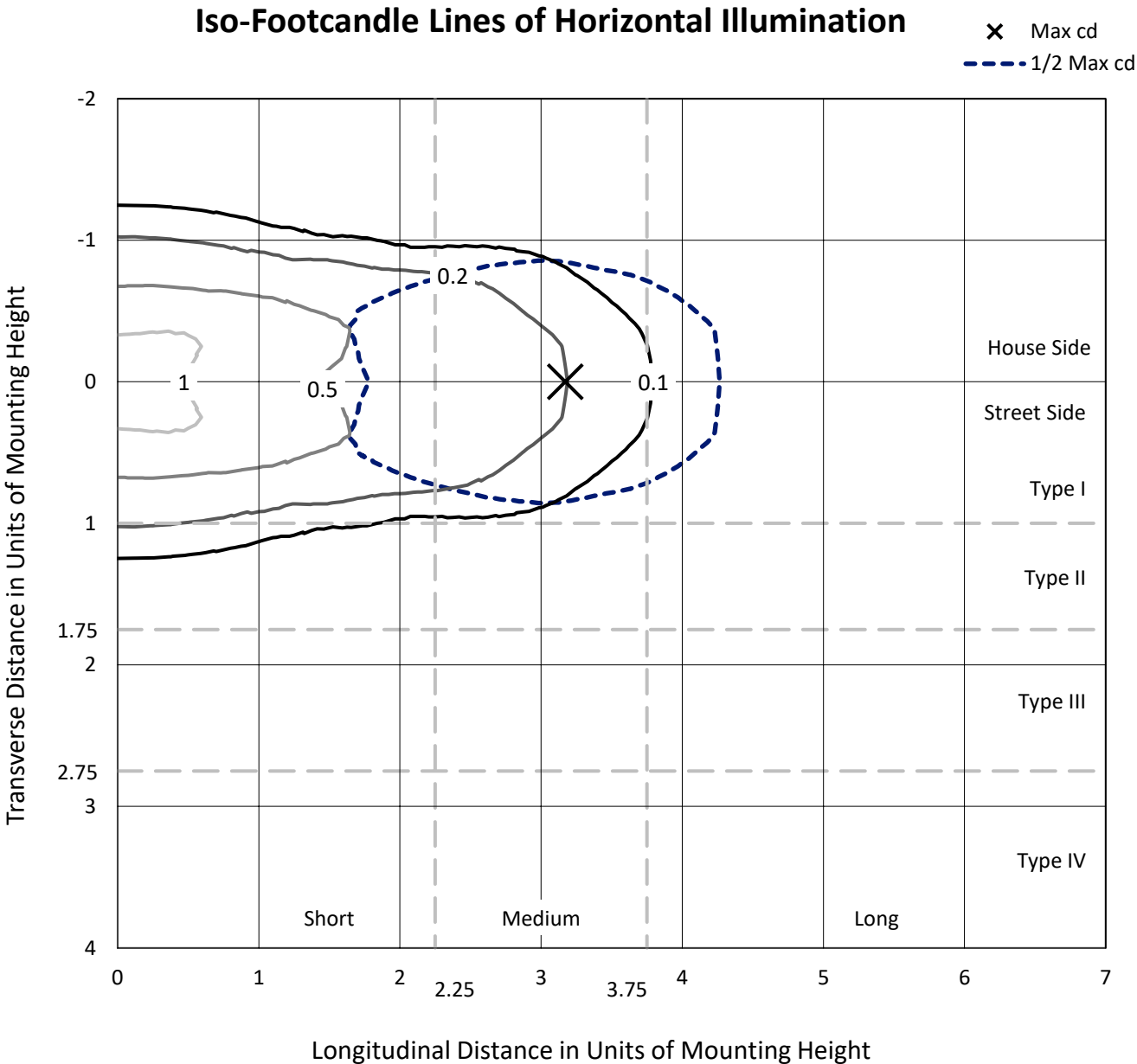
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4088.7 lumens
Efficiency: N/A
Efficacy: 132.3 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



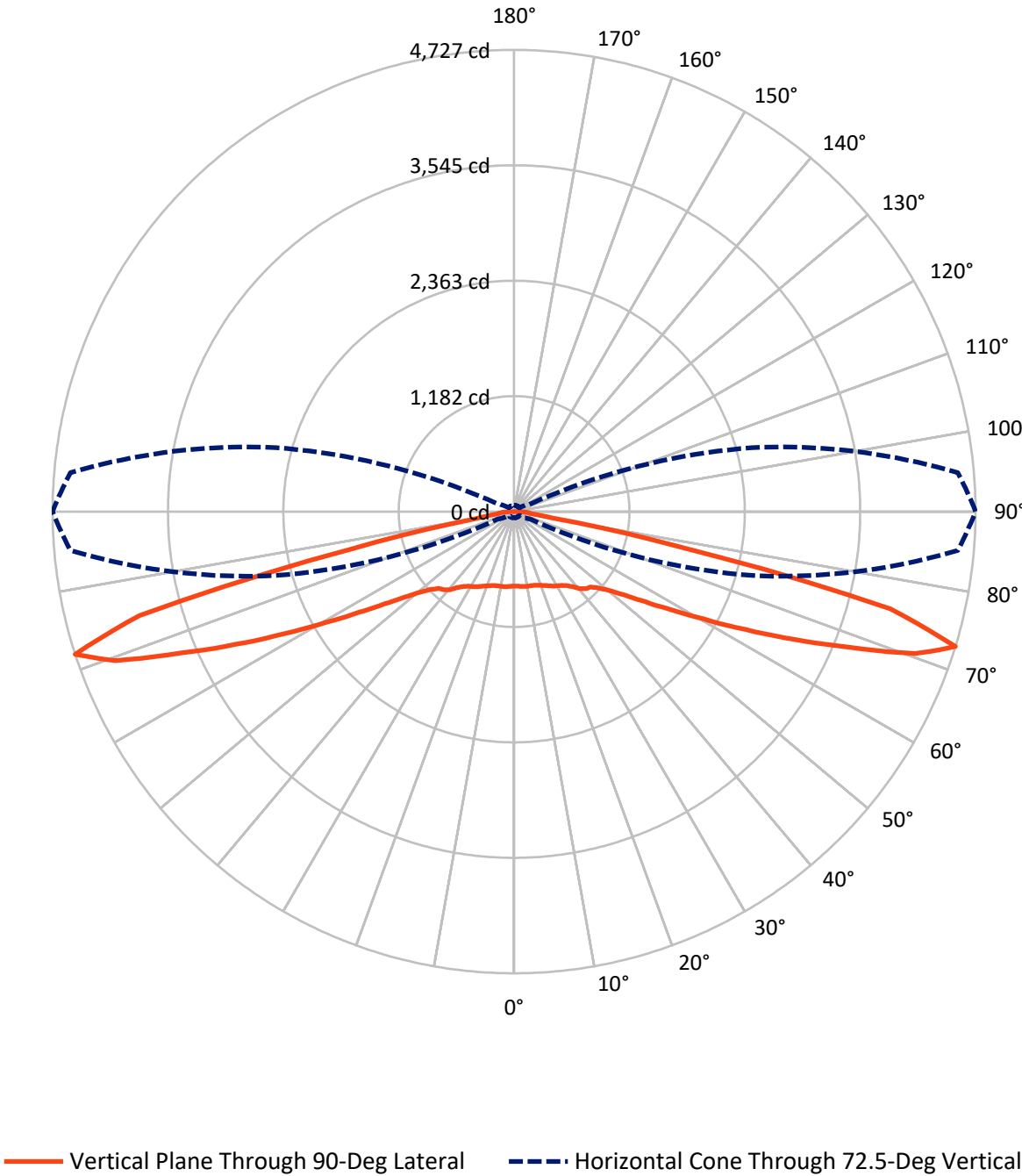
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Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2044.4	0.0	2044.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2044.4	0.0	2044.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	4088.7	0.0	4088.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.8
10°-20°	226.5	5.5
20°-30°	377.7	9.2
30°-40°	519.4	12.7
40°-50°	634.4	15.5
50°-60°	733.7	17.9
60°-70°	874.8	21.4
70°-80°	610.6	14.9
80°-90°	37.5	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°	4088.7	100.0
0°-180°	4088.7	100.0

Coefficient of Utilization



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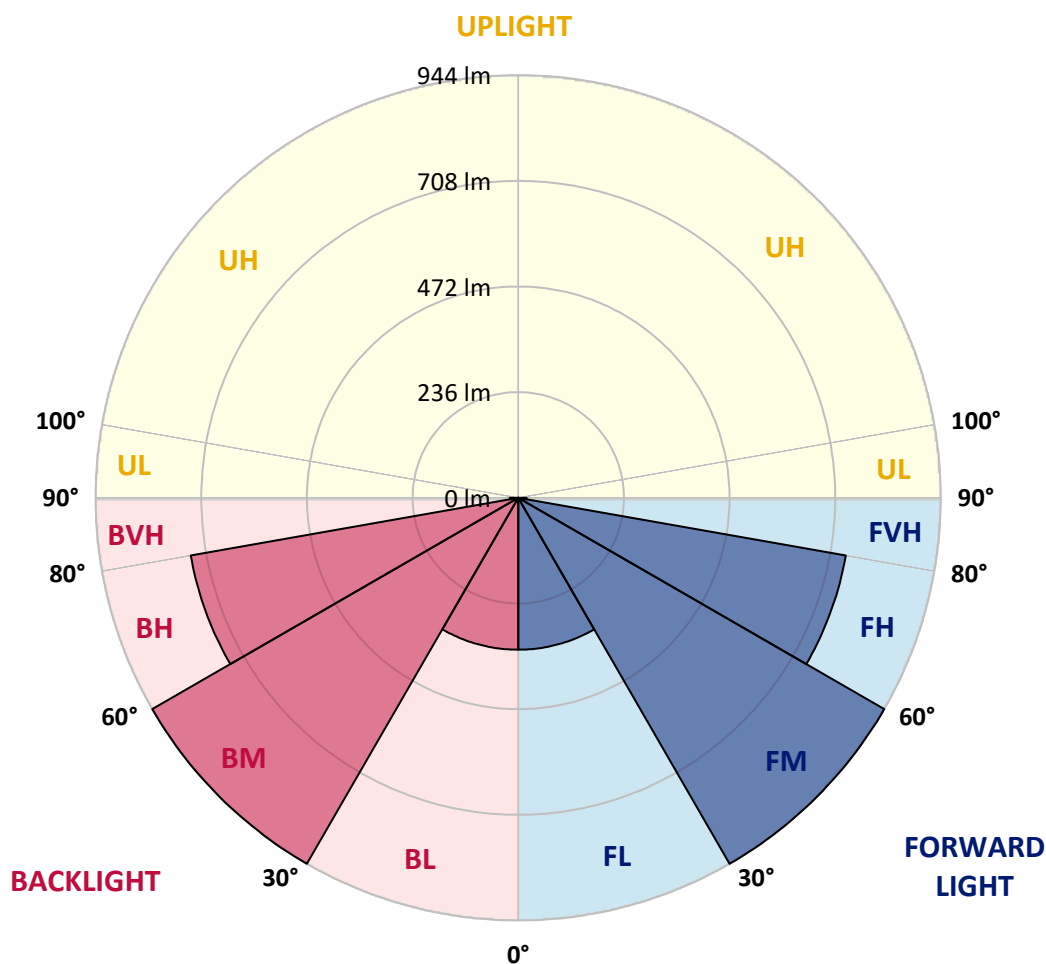
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	339.1	8.3			
FM	(30°-60°)	943.8	23.1			
FH	(60°-80°)	742.7	18.2			G1/1800
FVH	(80°-90°)	18.8	0.5			G1/100
BL	(0°-30°)	339.1	8.3	B1/500		
BM	(30°-60°)	943.8	23.1	B1/1000		
BH	(60°-80°)	742.7	18.2	B2/1000		G2/1000
BVH	(80°-90°)	18.8	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°	764.0	764.0	764.0	764.0	764.0	764.0	764.0	764.0	764.0	764.0	764.0
2.5°	764.6	765.6	765.6	764.9	766.4	765.1	765.1	764.4	765.1	764.4	764.4
5°	768.5	769.7	770.1	769.9	771.8	770.8	770.8	769.9	770.1	769.5	769.5
7.5°	775.9	777.5	778.4	779.4	782.3	780.9	780.1	777.5	776.4	774.7	774.7
10°	778.4	780.1	782.9	788.5	795.1	795.3	792.7	786.2	781.2	777.3	776.6
12.5°	771.0	773.4	779.2	790.8	805.3	811.2	807.1	796.2	786.4	779.4	778.4
15°	761.7	764.2	773.2	790.6	812.0	825.7	825.3	811.0	795.3	784.4	782.7
17.5°	747.1	749.7	762.5	786.8	817.2	839.9	845.9	831.2	809.2	794.7	792.2
20°	720.8	723.1	741.0	775.1	819.0	854.8	870.7	857.7	830.2	810.6	806.9
22.5°	686.6	690.3	711.2	754.9	814.9	870.5	898.9	890.0	854.8	827.5	822.5
25°	650.2	654.1	678.4	730.1	804.2	881.8	932.4	926.8	882.6	848.6	841.6
27.5°	618.7	622.8	649.3	705.6	787.7	886.1	965.4	968.3	916.4	871.8	864.4
30°	593.9	597.8	626.1	685.8	766.4	881.8	994.4	1013.9	950.7	892.1	881.4
32.5°	566.7	571.7	601.5	661.6	741.2	871.4	1019.6	1063.2	990.5	913.8	900.3
35°	532.4	536.9	568.3	628.6	708.2	854.6	1040.7	1118.0	1047.3	946.8	931.7
37.5°	490.7	495.0	526.0	587.3	675.4	831.2	1056.7	1179.7	1115.2	994.4	974.4
40°	448.7	452.8	482.0	541.3	636.0	801.1	1062.4	1240.1	1193.0	1059.7	1038.4
42.5°	410.3	414.0	440.6	495.9	591.9	762.9	1055.0	1292.7	1262.7	1105.4	1078.0
45°	374.8	378.1	401.8	453.3	546.1	716.5	1032.8	1349.2	1345.7	1138.0	1101.1
47.5°	334.5	337.6	362.2	411.9	500.2	661.8	995.3	1404.9	1461.1	1211.9	1169.3
50°	285.1	287.9	313.1	364.4	452.6	603.8	943.1	1448.5	1606.7	1323.8	1270.3
52.5°	226.6	229.7	254.2	305.6	396.2	541.5	874.4	1477.0	1774.9	1487.2	1421.4
55°	168.6	170.8	192.1	238.2	326.2	470.5	788.3	1485.0	1965.6	1710.6	1628.2
57.5°	122.4	123.6	137.4	171.7	247.3	381.6	683.9	1464.1	2192.8	1997.0	1893.3
60°	99.1	99.5	103.6	118.9	171.9	281.2	557.6	1392.5	2439.2	2366.2	2235.5
62.5°	90.0	90.0	91.0	95.2	116.2	185.5	404.9	1243.8	2703.4	2832.7	2657.8
65°	83.6	83.6	84.0	86.1	91.7	118.2	255.5	1001.7	2926.2	3379.2	3158.0
67.5°	78.0	78.2	78.0	78.6	81.9	87.3	148.2	691.9	3046.1	3945.5	3706.7
70°	72.2	72.6	71.4	71.4	74.1	74.3	92.8	379.4	2946.6	4420.1	4357.3
72.5°	65.2	65.8	64.1	63.7	65.6	64.8	69.8	182.1	2529.8	4561.8	4726.9
75°	59.1	60.0	56.1	54.9	54.9	54.3	56.7	93.5	1641.9	3721.3	3980.3
77.5°	53.7	55.5	49.1	45.6	44.8	42.8	46.3	57.2	718.2	1747.1	1710.8
80°	44.3	46.7	40.4	36.3	34.7	32.6	36.5	40.0	213.6	405.7	388.6
82.5°	33.0	34.1	28.7	25.8	24.6	23.1	27.4	27.8	69.5	143.6	162.4
85°	21.1	21.5	17.6	15.2	14.6	13.9	17.4	15.2	26.5	105.6	153.4
87.5°	7.4	8.5	6.8	6.0	6.6	5.4	8.0	4.6	7.4	74.5	92.4
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)