

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: P881595

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

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
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: ELECTRONIC DRIVER

**Summary**

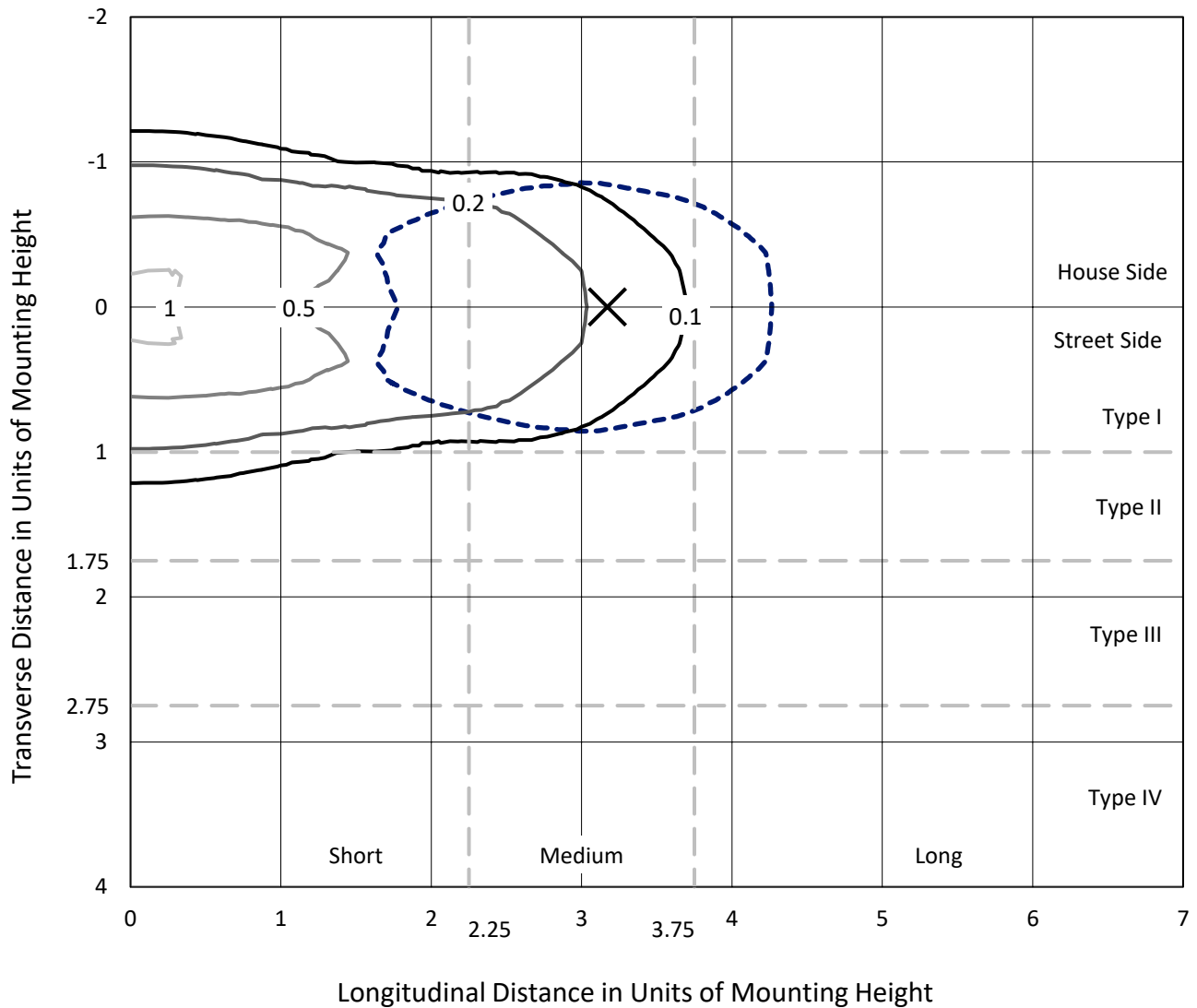
Lumens per Lamp: N/A  
Luminaire Lumens: 3609 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 30.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.263  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 6.356  
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

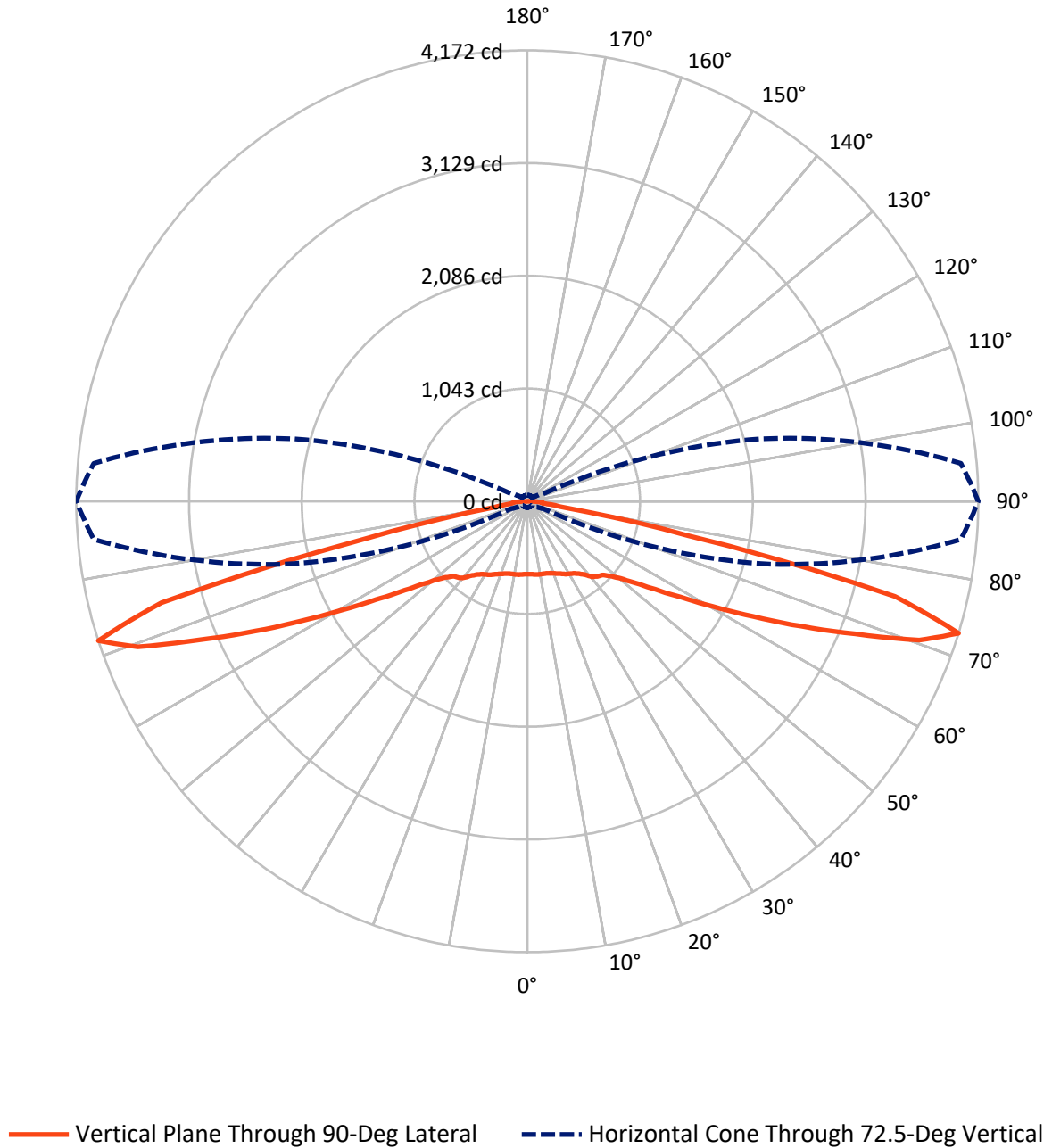
✕ Max cd  
 - - - 1/2 Max cd



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



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1804.5	0.0	1804.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1804.5	0.0	1804.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3609.0	0.0	3609.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.4	1.8
10°-20°	199.9	5.5
20°-30°	333.4	9.2
30°-40°	458.5	12.7
40°-50°	559.9	15.5
50°-60°	647.6	17.9
60°-70°	772.2	21.4
70°-80°	538.9	14.9
80°-90°	33.1	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°	3609.0	100.0
0°-180°	3609.0	100.0

**Coefficient of Utilization**



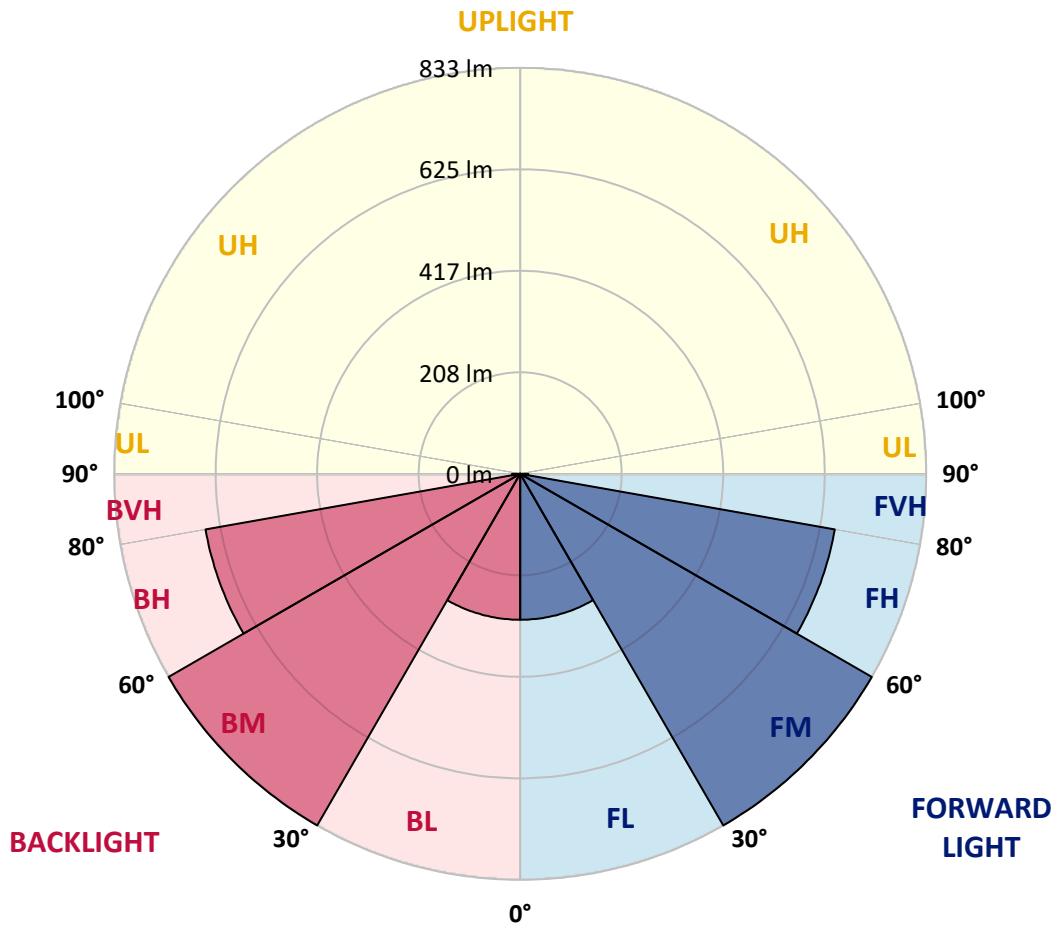
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	299.3	8.3			
FM (30°-60°)	833.0	23.1			
FH (60°-80°)	655.6	18.2			G0/660
FVH (80°-90°)	16.6	0.5			G1/100
BL (0°-30°)	299.3	8.3	B1/500		
BM (30°-60°)	833.0	23.1	B1/1000		
BH (60°-80°)	655.6	18.2	B2/1000		G2/1000
BVH (80°-90°)	16.6	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°	674.4	674.4	674.4	674.4	674.4	674.4	674.4	674.4	674.4	674.4	674.4
2.5°	675.0	675.7	675.7	675.1	676.5	675.3	675.3	674.8	675.3	674.8	674.8
5°	678.4	679.4	679.8	679.6	681.3	680.3	680.3	679.6	679.8	679.2	679.2
7.5°	684.9	686.3	687.0	688.0	690.5	689.3	688.6	686.3	685.3	683.8	683.8
10°	687.0	688.6	691.1	696.1	701.8	702.0	699.7	693.9	689.5	686.1	685.5
12.5°	680.5	682.6	687.8	698.0	710.8	716.0	712.4	702.8	694.1	688.0	687.0
15°	672.3	674.6	682.4	697.8	716.8	728.9	728.5	715.8	702.0	692.4	690.9
17.5°	659.4	661.7	673.0	694.5	721.4	741.3	746.7	733.6	714.3	701.4	699.3
20°	636.2	638.3	654.0	684.2	722.9	754.6	768.6	757.0	732.9	715.4	712.2
22.5°	606.1	609.4	627.8	666.3	719.3	768.4	793.5	785.6	754.6	730.4	726.0
25°	573.9	577.3	598.8	644.5	709.9	778.3	823.0	818.0	779.1	749.0	742.9
27.5°	546.1	549.7	573.1	622.8	695.3	782.2	852.2	854.7	808.8	769.5	763.0
30°	524.2	527.7	552.6	605.3	676.5	778.3	877.7	895.0	839.1	787.4	778.0
32.5°	500.2	504.6	530.9	584.0	654.2	769.1	899.9	938.5	874.2	806.5	794.6
35°	469.9	473.9	501.6	554.9	625.1	754.4	918.5	986.8	924.5	835.7	822.5
37.5°	433.1	436.9	464.4	518.4	596.1	733.6	932.7	1041.3	984.3	877.7	860.0
40°	396.1	399.7	425.4	477.8	561.4	707.2	937.7	1094.6	1053.0	935.4	916.6
42.5°	362.1	365.4	389.0	437.7	522.5	673.4	931.2	1141.0	1114.6	975.7	951.5
45°	330.9	333.7	354.6	400.1	482.0	632.4	911.6	1190.9	1187.8	1004.5	971.9
47.5°	295.2	298.1	319.7	363.7	441.5	584.2	878.5	1240.0	1289.7	1069.7	1032.1
50°	251.6	254.1	276.4	321.7	399.5	533.0	832.4	1278.6	1418.2	1168.5	1121.3
52.5°	200.1	202.7	224.4	269.7	349.7	478.0	771.8	1303.7	1566.6	1312.7	1254.6
55°	148.8	150.8	169.6	210.2	287.9	415.3	695.9	1310.8	1735.1	1509.9	1437.2
57.5°	108.0	109.1	121.2	151.5	218.3	336.8	603.6	1292.4	1935.5	1762.7	1671.2
60°	87.5	87.8	91.5	104.9	151.7	248.2	492.2	1229.1	2153.0	2088.5	1973.3
62.5°	79.4	79.4	80.4	84.0	102.6	163.8	357.3	1097.9	2386.2	2500.3	2345.9
65°	73.8	73.8	74.2	76.0	80.9	104.3	225.6	884.2	2582.8	2982.7	2787.5
67.5°	68.9	69.0	68.9	69.4	72.3	77.1	130.8	610.7	2688.7	3482.6	3271.8
70°	63.7	64.1	63.1	63.1	65.4	65.6	81.9	334.9	2600.9	3901.5	3846.0
72.5°	57.5	58.1	56.6	56.2	57.9	57.2	61.6	160.7	2233.0	4026.5	4172.3
75°	52.2	52.9	49.5	48.5	48.5	48.0	50.1	82.5	1449.3	3284.6	3513.3
77.5°	47.4	48.9	43.3	40.3	39.5	37.8	40.9	50.4	633.9	1542.1	1510.1
80°	39.1	41.2	35.7	32.0	30.7	28.8	32.2	35.3	188.5	358.1	342.9
82.5°	29.2	30.1	25.3	22.8	21.7	20.3	24.2	24.6	61.4	126.8	143.3
85°	18.6	19.0	15.5	13.4	12.9	12.3	15.3	13.4	23.4	93.2	135.4
87.5°	6.5	7.5	5.9	5.4	5.8	4.8	7.1	4.0	6.5	65.8	81.5
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)