

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: P885335

Luminaire Tested: **NAV-SB6C-827-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885335  
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-SB6C-827-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

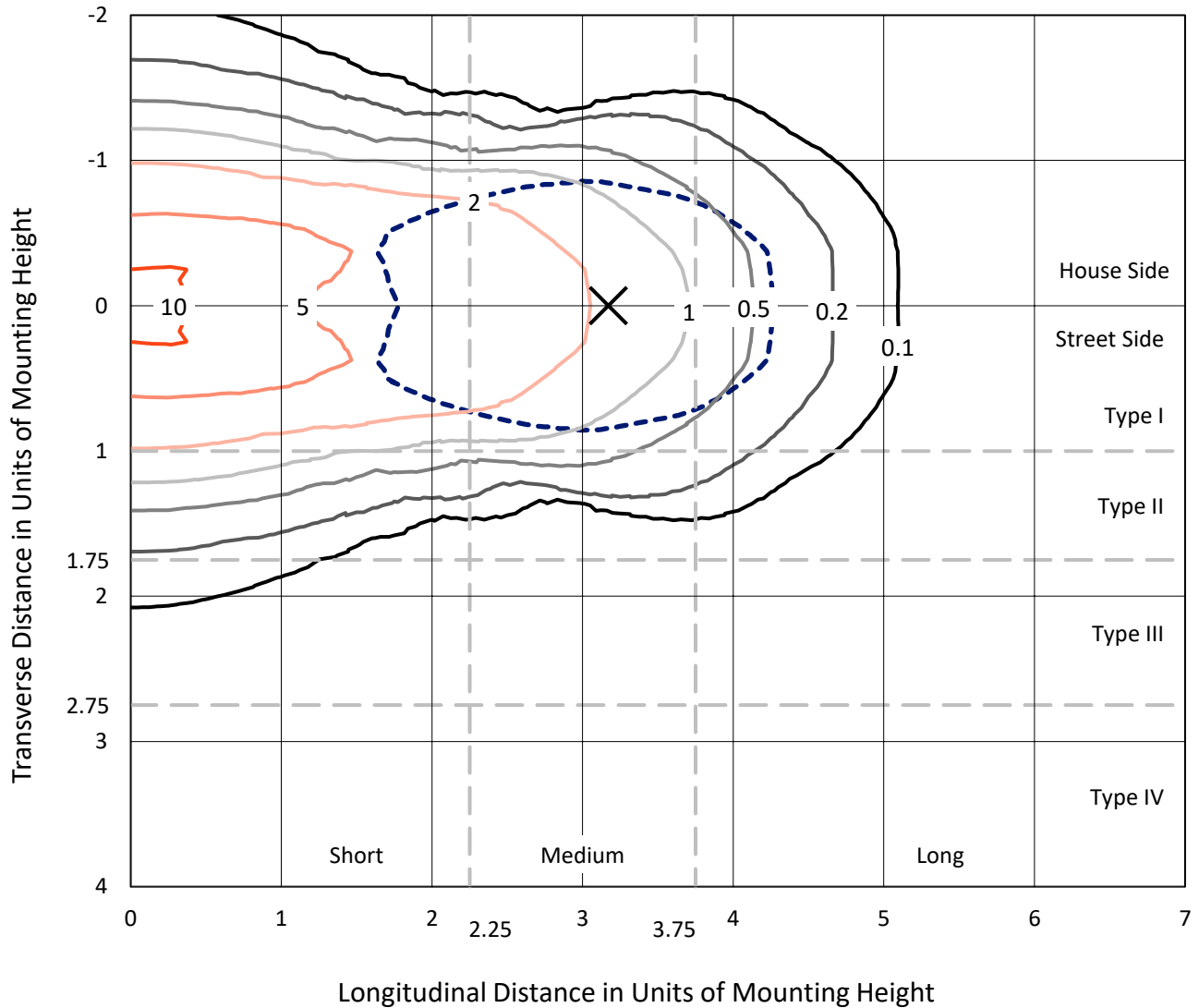
Lumens per Lamp: N/A  
Luminaire Lumens: 36537 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

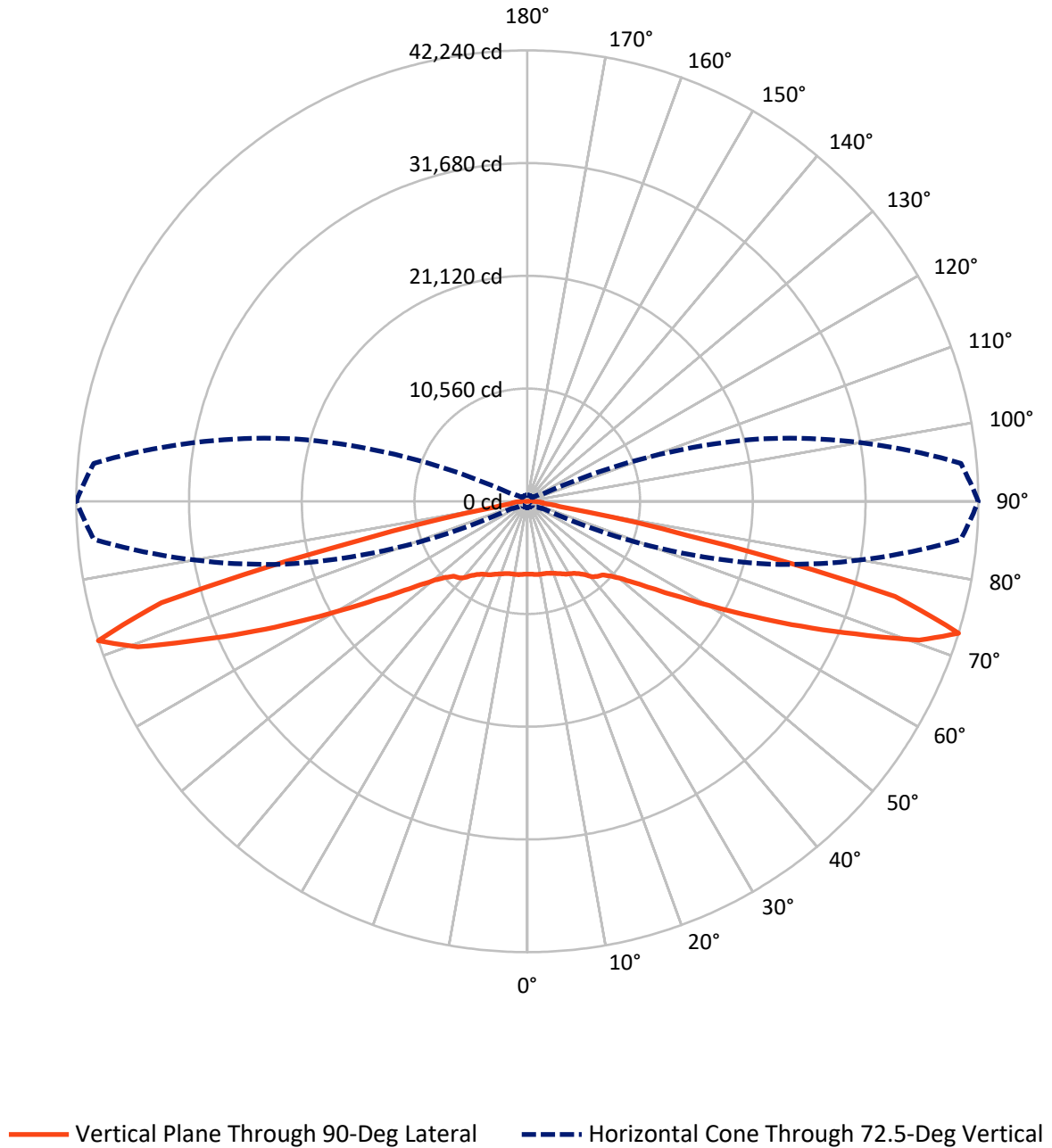
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	18268.5	0.0	18268.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18268.5	0.0	18268.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36537.0	0.0	36537.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	662.0	1.8
10°-20°	2024.1	5.5
20°-30°	3375.0	9.2
30°-40°	4641.7	12.7
40°-50°	5668.8	15.5
50°-60°	6556.5	17.9
60°-70°	7817.6	21.4
70°-80°	5456.2	14.9
80°-90°	335.1	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°	36537.0	100.0
0°-180°	36537.0	100.0



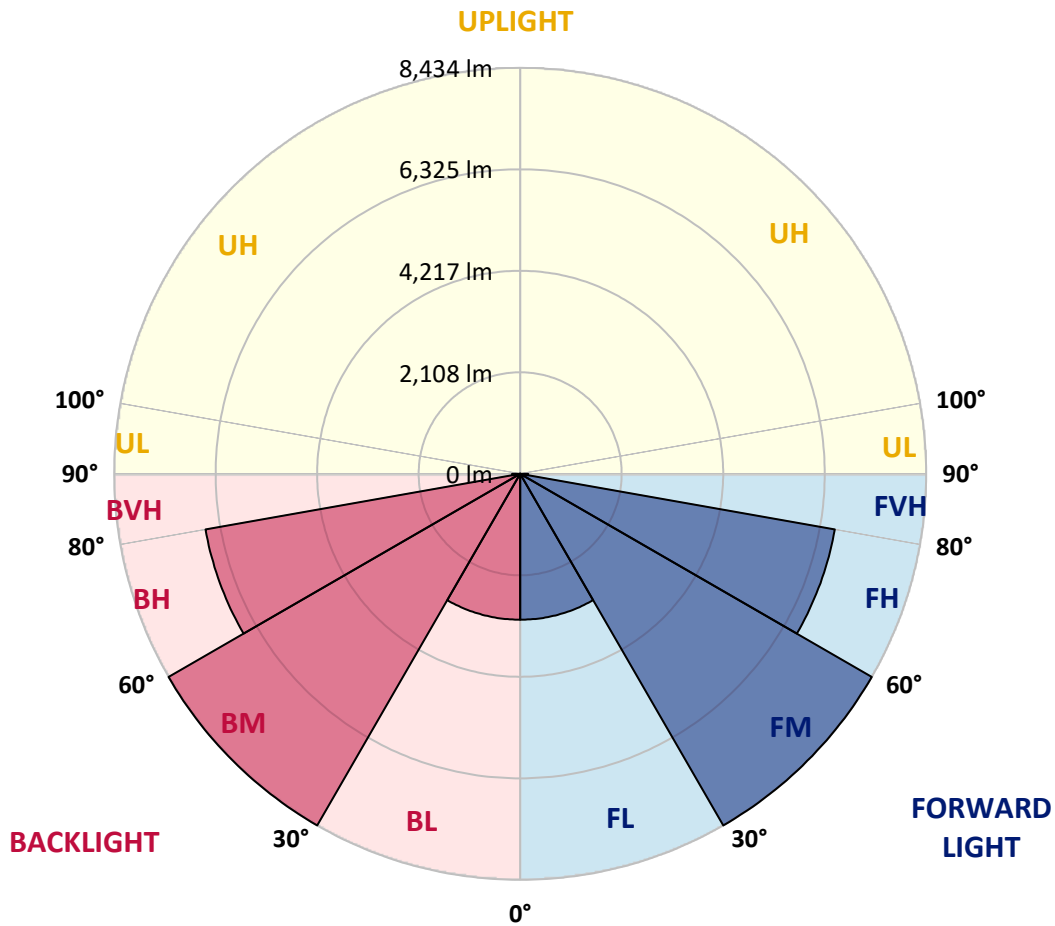
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3030.6	8.3			
FM (30°-60°)	8433.5	23.1			
FH (60°-80°)	6636.9	18.2			G3/7500
FVH (80°-90°)	167.6	0.5			G2/225
BL (0°-30°)	3030.6	8.3	B4/5000		
BM (30°-60°)	8433.5	23.1	B4/8500		
BH (60°-80°)	6636.9	18.2	B5		G5
BVH (80°-90°)	167.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6827.3	6827.3	6827.3	6827.3	6827.3	6827.3	6827.3	6827.3	6827.3	6827.3	6827.3
2.5°	6833.1	6840.9	6840.9	6835.1	6848.7	6837.0	6837.0	6831.2	6837.0	6831.2	6831.2
5°	6868.1	6877.8	6881.7	6879.8	6897.2	6887.5	6887.5	6879.8	6881.7	6875.9	6875.9
7.5°	6934.1	6947.7	6955.5	6965.2	6990.4	6978.8	6971.0	6947.7	6938.0	6922.5	6922.5
10°	6955.5	6971.0	6996.3	7046.7	7105.0	7106.9	7083.6	7025.4	6980.7	6945.8	6939.9
12.5°	6889.5	6910.8	6963.2	7066.2	7196.3	7248.7	7211.8	7114.7	7027.3	6965.2	6955.5
15°	6806.0	6829.3	6908.9	7064.2	7256.5	7378.8	7374.9	7246.8	7106.9	7009.9	6994.3
17.5°	6675.9	6699.2	6813.7	7031.2	7303.1	7505.0	7559.4	7427.3	7231.2	7101.1	7079.8
20°	6440.9	6462.3	6621.5	6926.4	7318.6	7639.0	7780.7	7664.2	7419.6	7242.9	7209.9
22.5°	6136.0	6169.1	6355.5	6745.8	7281.7	7778.8	8033.2	7953.6	7639.0	7394.3	7349.7
25°	5809.8	5844.8	6062.3	6524.4	7186.6	7879.8	8332.2	8281.7	7887.5	7582.7	7520.5
27.5°	5528.3	5565.2	5802.1	6305.0	7039.0	7918.6	8627.4	8652.6	8188.5	7790.5	7724.4
30°	5306.9	5341.9	5594.3	6128.3	6848.7	7879.8	8885.6	9060.4	8495.3	7971.0	7875.9
32.5°	5064.2	5108.8	5374.9	5912.7	6623.4	7786.6	9110.9	9501.2	8850.7	8165.2	8044.8
35°	4757.4	4798.2	5077.8	5617.6	6328.3	7637.0	9299.2	9990.5	9359.4	8460.4	8326.4
37.5°	4384.6	4423.4	4701.1	5248.7	6035.1	7427.3	9442.9	10542.0	9965.3	8885.6	8707.0
40°	4009.8	4046.7	4306.9	4837.0	5683.6	7159.4	9493.4	11081.8	10660.4	9470.1	9279.8
42.5°	3666.1	3699.1	3937.9	4431.2	5289.4	6817.6	9427.4	11551.7	11283.7	9877.9	9633.2
45°	3349.6	3378.7	3590.4	4050.6	4879.7	6402.1	9229.3	12056.6	12025.5	10169.1	9839.0
47.5°	2988.4	3017.5	3237.0	3681.6	4470.0	5914.7	8893.4	12553.7	13056.6	10829.3	10448.8
50°	2547.6	2572.9	2798.1	3256.4	4044.7	5396.2	8427.4	12944.0	14357.6	11829.4	11351.7
52.5°	2025.3	2052.5	2271.9	2730.2	3539.9	4838.9	7813.8	13198.3	15860.5	13289.6	12701.2
55°	1506.8	1526.2	1716.5	2128.2	2914.6	4204.0	7044.8	13270.2	17565.4	15285.7	14549.8
57.5°	1093.2	1104.9	1227.2	1534.0	2209.8	3409.8	6110.8	13083.8	19594.6	17845.0	16918.8
60°	885.5	889.3	926.2	1062.2	1536.0	2512.7	4982.6	12443.0	21796.6	21144.1	19977.1
62.5°	803.9	803.9	813.6	850.5	1038.9	1658.3	3617.5	11114.8	24157.8	25313.1	23750.0
65°	747.6	747.6	751.5	768.9	819.4	1056.3	2283.5	8951.6	26148.1	30196.7	28220.0
67.5°	697.1	699.0	697.1	702.9	732.1	780.6	1324.3	6182.7	27220.0	35257.0	33123.0
70°	644.7	648.6	638.8	638.8	662.1	664.1	829.1	3390.4	26330.6	39497.9	38936.7
72.5°	582.5	588.4	572.8	568.9	586.4	578.7	623.3	1627.2	22606.3	40763.9	42239.7
75°	528.2	535.9	501.0	491.3	491.3	485.4	506.8	835.0	14672.1	33253.1	35567.7
77.5°	479.6	495.2	438.8	407.8	400.0	382.5	413.6	510.7	6417.6	15612.0	15287.7
80°	396.1	417.5	361.2	324.3	310.7	291.3	326.2	357.3	1908.8	3625.3	3471.9
82.5°	295.2	304.9	256.3	231.1	219.4	205.8	244.7	248.5	621.4	1283.5	1450.5
85°	188.4	192.2	157.3	135.9	130.1	124.3	155.3	135.9	236.9	943.7	1370.9
87.5°	66.0	75.7	60.2	54.4	58.3	48.5	71.8	40.8	66.0	666.0	825.3
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)