

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: P885165

Luminaire Tested: **NAV-SB6B-827-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885165  
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-SB6B-827-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

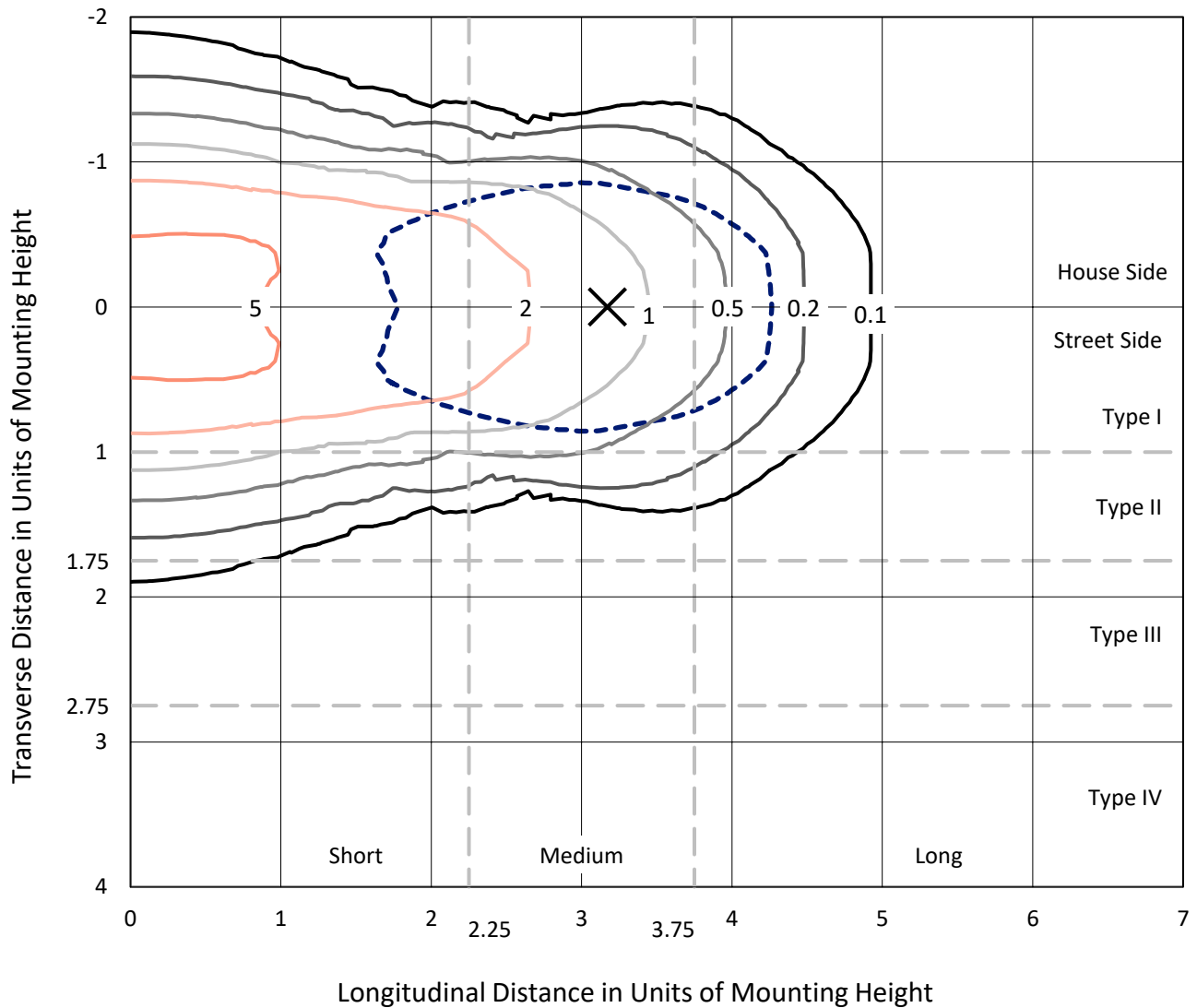
Lumens per Lamp: N/A  
Luminaire Lumens: 27472 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 1.838  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.657  
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

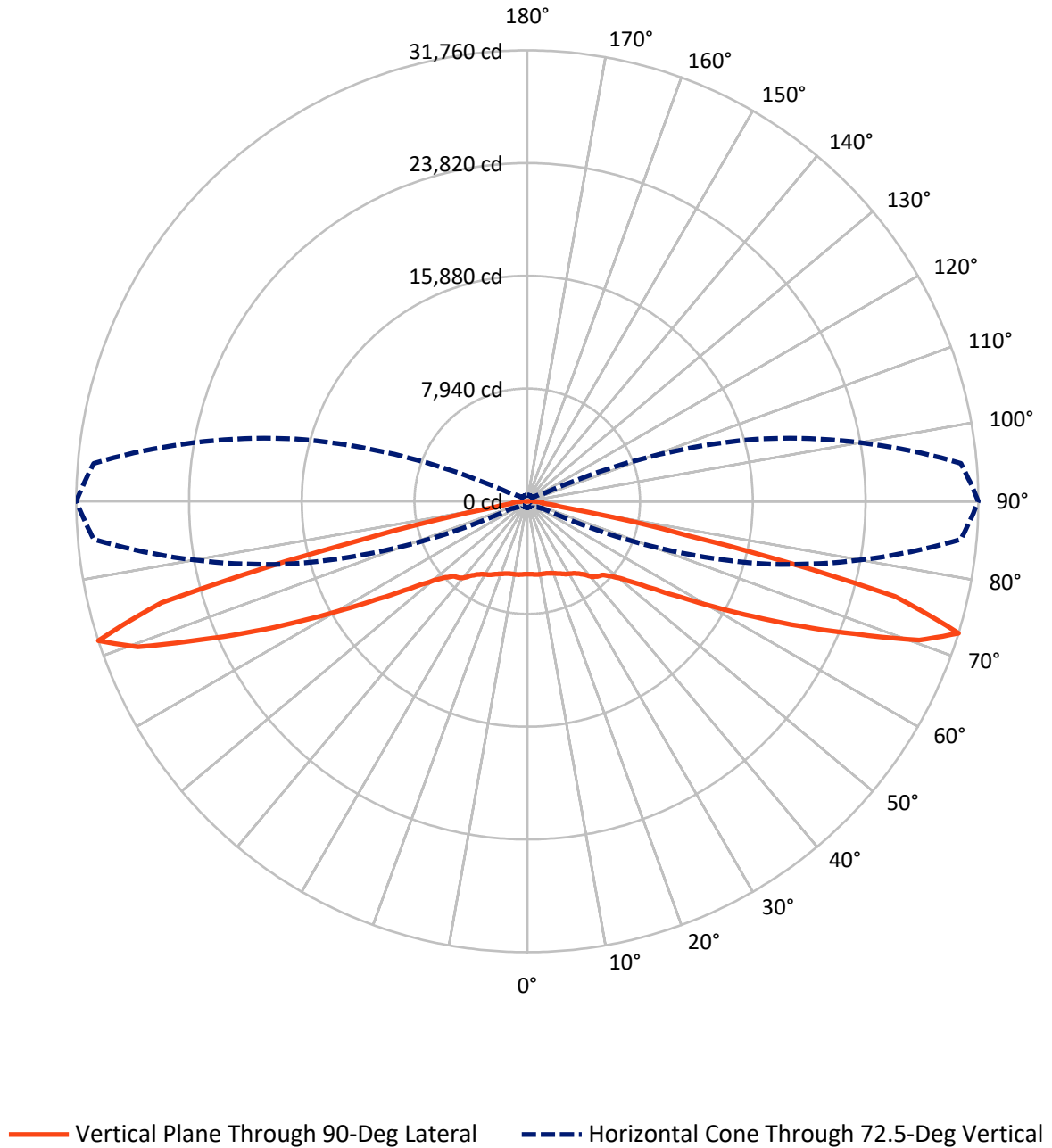
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	13736.0	0.0	13736.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13736.0	0.0	13736.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27472.0	0.0	27472.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.7	1.8
10°-20°	1521.9	5.5
20°-30°	2537.7	9.2
30°-40°	3490.1	12.7
40°-50°	4262.3	15.5
50°-60°	4929.8	17.9
60°-70°	5878.0	21.4
70°-80°	4102.5	14.9
80°-90°	252.0	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°	27472.0	100.0
0°-180°	27472.0	100.0



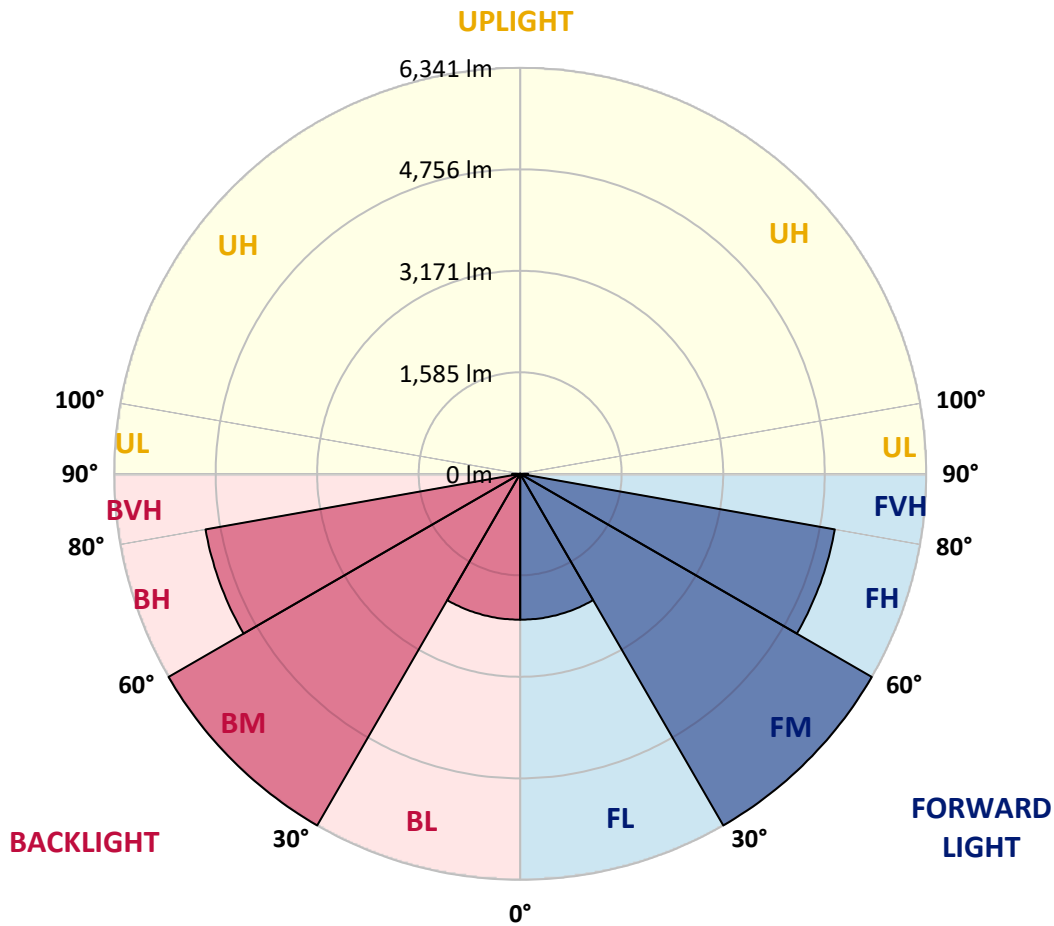
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2278.7	8.3			
FM (30°-60°)	6341.1	23.1			
FH (60°-80°)	4990.2	18.2			G2/5000
FVH (80°-90°)	126.0	0.5			G2/225
BL (0°-30°)	2278.7	8.3	B3/2500		
BM (30°-60°)	6341.1	23.1	B4/8500		
BH (60°-80°)	4990.2	18.2	B4/5000		G4/5000
BVH (80°-90°)	126.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5133.4	5133.4	5133.4	5133.4	5133.4	5133.4	5133.4	5133.4	5133.4	5133.4	5133.4
2.5°	5137.8	5143.7	5143.7	5139.3	5149.5	5140.7	5140.7	5136.4	5140.7	5136.4	5136.4
5°	5164.1	5171.4	5174.3	5172.9	5186.0	5178.7	5178.7	5172.9	5174.3	5169.9	5169.9
7.5°	5213.7	5224.0	5229.8	5237.1	5256.1	5247.3	5241.5	5224.0	5216.7	5205.0	5205.0
10°	5229.8	5241.5	5260.5	5298.4	5342.2	5343.7	5326.2	5282.4	5248.8	5222.5	5218.1
12.5°	5180.2	5196.2	5235.6	5313.0	5410.8	5450.3	5422.5	5349.5	5283.8	5237.1	5229.8
15°	5117.4	5134.9	5194.8	5311.6	5456.1	5548.1	5545.2	5448.8	5343.7	5270.7	5259.0
17.5°	5019.6	5037.1	5123.2	5286.7	5491.1	5643.0	5683.9	5584.6	5437.1	5339.3	5323.2
20°	4842.9	4858.9	4978.7	5207.9	5502.8	5743.7	5850.3	5762.7	5578.7	5445.9	5421.1
22.5°	4613.7	4638.5	4778.6	5072.1	5475.1	5848.8	6040.1	5980.2	5743.7	5559.8	5526.2
25°	4368.4	4394.7	4558.2	4905.7	5403.5	5924.8	6264.9	6227.0	5930.6	5701.4	5654.7
27.5°	4156.7	4184.4	4362.5	4740.7	5292.6	5954.0	6486.9	6505.9	6156.9	5857.6	5808.0
30°	3990.2	4016.5	4206.3	4607.8	5149.5	5924.8	6681.1	6812.5	6387.6	5993.4	5921.8
32.5°	3807.7	3841.3	4041.3	4445.8	4980.1	5854.7	6850.4	7143.9	6654.8	6139.4	6048.9
35°	3577.1	3607.7	3818.0	4223.8	4758.2	5742.3	6992.0	7511.8	7037.3	6361.3	6260.6
37.5°	3296.7	3325.9	3534.7	3946.4	4537.7	5584.6	7100.1	7926.5	7492.8	6681.1	6546.7
40°	3014.9	3042.7	3238.3	3636.9	4273.5	5383.1	7138.0	8332.3	8015.5	7120.5	6977.4
42.5°	2756.5	2781.3	2960.9	3331.8	3977.1	5126.1	7088.4	8685.7	8484.2	7427.1	7243.2
45°	2518.5	2540.4	2699.6	3045.6	3669.0	4813.7	6939.5	9065.3	9041.9	7646.1	7397.9
47.5°	2247.0	2268.9	2433.9	2768.2	3361.0	4447.2	6686.9	9439.0	9817.2	8142.5	7856.4
50°	1915.5	1934.5	2103.9	2448.5	3041.2	4057.4	6336.5	9732.5	10795.4	8894.4	8535.3
52.5°	1522.8	1543.2	1708.2	2052.8	2661.6	3638.4	5875.1	9923.8	11925.5	9992.4	9550.0
55°	1133.0	1147.6	1290.7	1600.2	2191.5	3160.9	5297.0	9977.8	13207.3	11493.3	10939.9
57.5°	822.0	830.8	922.7	1153.4	1661.5	2563.8	4594.7	9837.6	14733.1	13417.6	12721.2
60°	665.8	668.7	696.4	798.6	1154.9	1889.3	3746.4	9355.8	16388.7	15898.2	15020.7
62.5°	604.4	604.4	611.7	639.5	781.1	1246.9	2720.0	8357.2	18164.1	19032.8	17857.5
65°	562.1	562.1	565.0	578.2	616.1	794.3	1717.0	6730.7	19660.6	22704.8	21218.5
67.5°	524.1	525.6	524.1	528.5	550.4	586.9	995.7	4648.7	20466.6	26509.6	24905.0
70°	484.7	487.6	480.3	480.3	497.9	499.3	623.4	2549.2	19797.9	29698.3	29276.3
72.5°	438.0	442.4	430.7	427.8	440.9	435.1	468.7	1223.5	16997.6	30650.2	31759.8
75°	397.1	403.0	376.7	369.4	369.4	365.0	381.1	627.8	11031.9	25002.9	26743.2
77.5°	360.6	372.3	330.0	306.6	300.8	287.6	311.0	384.0	4825.4	11738.6	11494.7
80°	297.8	313.9	271.6	243.8	233.6	219.0	245.3	268.6	1435.2	2725.9	2610.5
82.5°	221.9	229.2	192.7	173.7	165.0	154.8	184.0	186.9	467.2	965.1	1090.6
85°	141.6	144.5	118.3	102.2	97.8	93.4	116.8	102.2	178.1	709.6	1030.8
87.5°	49.6	56.9	45.3	40.9	43.8	36.5	54.0	30.7	49.6	500.8	620.5
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)