

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: P885435

Luminaire Tested: **NAV-SB6D-722-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885435  
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-SB6D-722-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

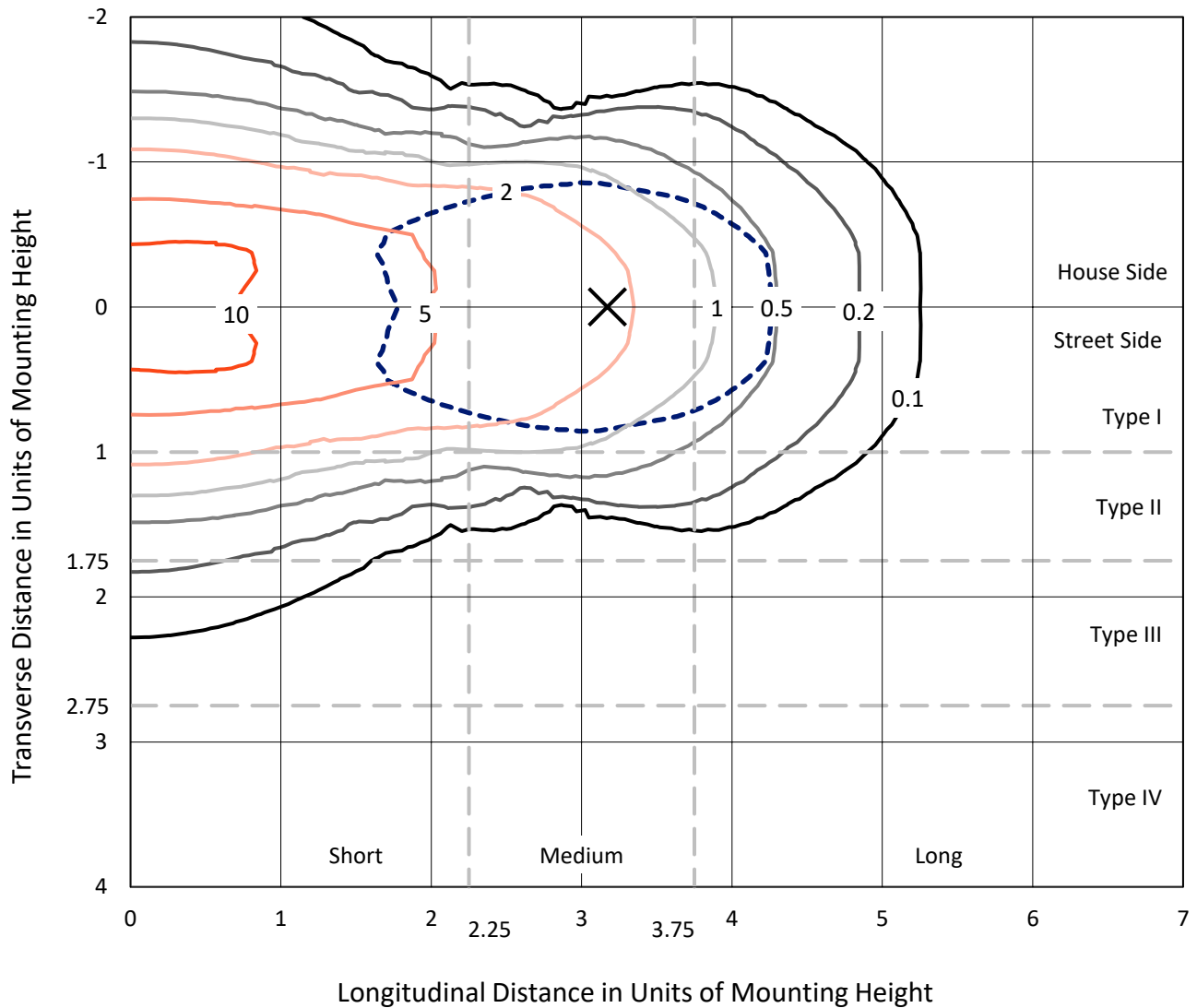
Lumens per Lamp: N/A  
Luminaire Lumens: 48691 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 3.68  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

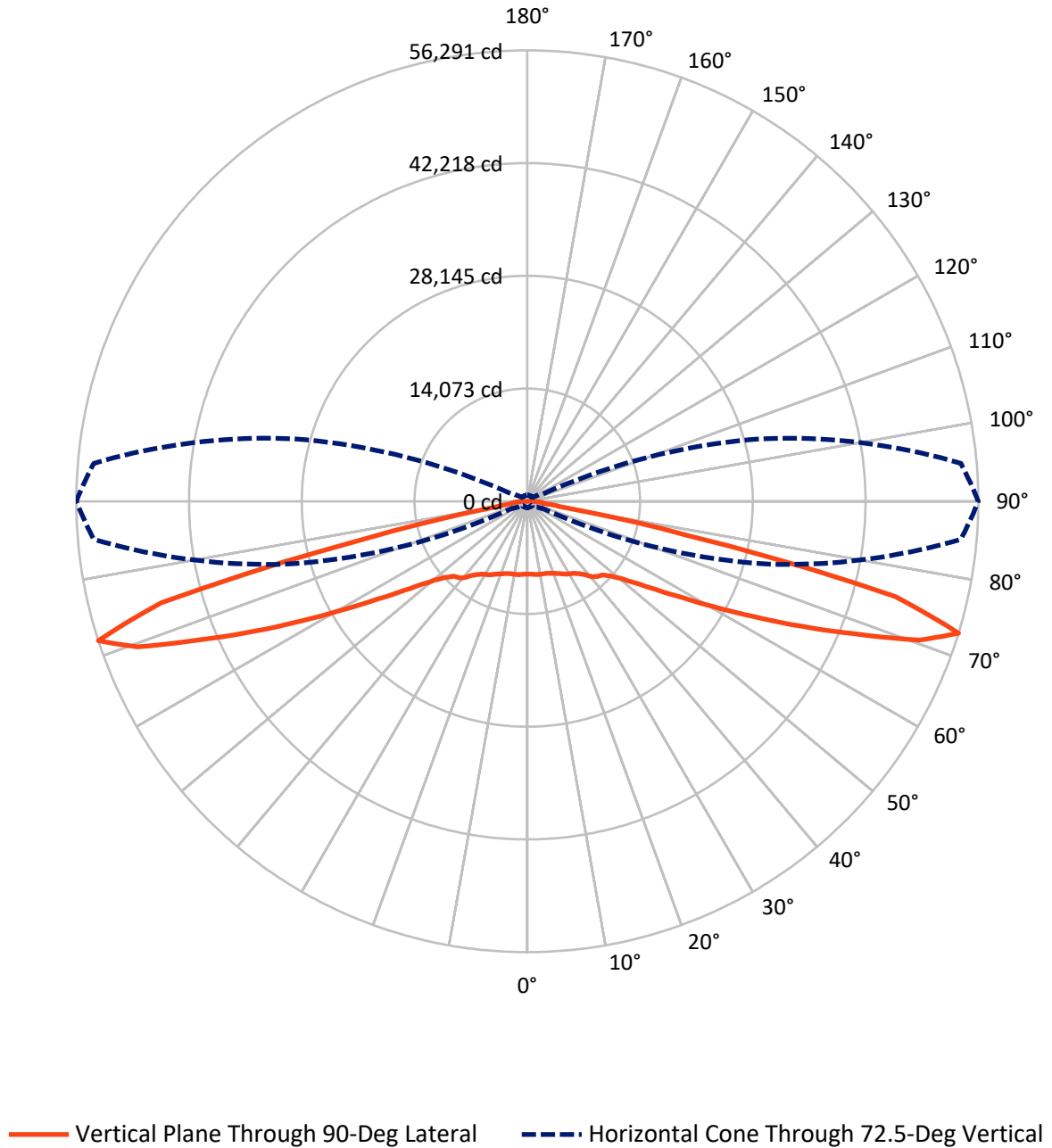
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	24345.5	0.0	24345.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24345.5	0.0	24345.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	48691.0	0.0	48691.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	882.2	1.8
10°-20°	2697.4	5.5
20°-30°	4497.7	9.2
30°-40°	6185.7	12.7
40°-50°	7554.5	15.5
50°-60°	8737.6	17.9
60°-70°	10418.1	21.4
70°-80°	7271.2	14.9
80°-90°	446.6	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°	48691.0	100.0
0°-180°	48691.0	100.0

**Coefficient of Utilization**



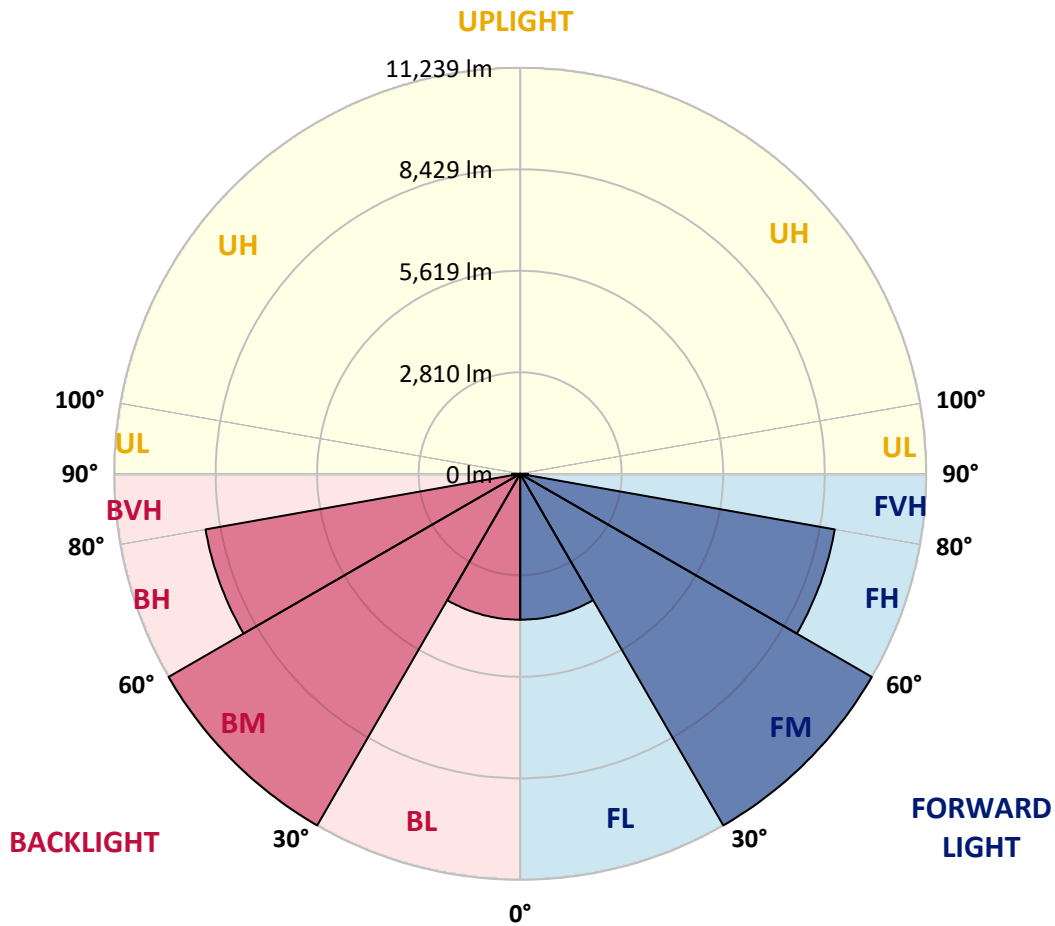
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4038.7	8.3			
FM (30°-60°)	11238.9	23.1			
FH (60°-80°)	8844.6	18.2			G4/12000
FVH (80°-90°)	223.3	0.5			G2/225
BL (0°-30°)	4038.7	8.3	B4/5000		
BM (30°-60°)	11238.9	23.1	B5		
BH (60°-80°)	8844.6	18.2	B5		G5
BVH (80°-90°)	223.3	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°	9098.4	9098.4	9098.4	9098.4	9098.4	9098.4	9098.4	9098.4	9098.4	9098.4	9098.4
2.5°	9106.2	9116.5	9116.5	9108.8	9126.9	9111.4	9111.4	9103.6	9111.4	9103.6	9103.6
5°	9152.8	9165.7	9170.9	9168.3	9191.6	9178.6	9178.6	9168.3	9170.9	9163.1	9163.1
7.5°	9240.8	9258.9	9269.2	9282.2	9315.8	9300.3	9289.9	9258.9	9245.9	9225.2	9225.2
10°	9269.2	9289.9	9323.6	9390.8	9468.5	9471.1	9440.0	9362.4	9302.9	9256.3	9248.5
12.5°	9181.2	9209.7	9279.6	9416.7	9590.1	9660.0	9610.8	9481.4	9365.0	9282.2	9269.2
15°	9070.0	9101.0	9207.1	9414.1	9670.3	9833.3	9828.2	9657.4	9471.1	9341.7	9321.0
17.5°	8896.6	8927.6	9080.3	9370.1	9732.4	10001.5	10074.0	9898.0	9636.7	9463.3	9434.8
20°	8583.5	8611.9	8824.1	9230.4	9753.1	10180.1	10369.0	10213.7	9887.7	9652.2	9608.2
22.5°	8177.2	8221.2	8469.6	8989.7	9704.0	10366.4	10705.4	10599.3	10180.1	9854.0	9794.5
25°	7742.5	7789.0	8078.9	8694.7	9577.2	10501.0	11103.9	11036.6	10511.3	10105.1	10022.2
27.5°	7367.2	7416.4	7732.1	8402.3	9380.5	10552.7	11497.2	11530.9	10912.4	10381.9	10294.0
30°	7072.2	7118.8	7455.2	8166.8	9126.9	10501.0	11841.4	12074.3	11321.3	10622.6	10495.8
32.5°	6748.8	6808.3	7162.8	7879.6	8826.7	10376.8	12141.6	12661.7	11794.8	10881.4	10720.9
35°	6339.9	6394.3	6766.9	7486.3	8433.4	10177.5	12392.6	13313.8	12472.8	11274.7	11096.1
37.5°	5843.1	5894.8	6264.9	6994.6	8042.6	9898.0	12584.1	14048.7	13280.2	11841.4	11603.3
40°	5343.6	5392.8	5739.6	6446.0	7574.3	9540.9	12651.4	14768.1	14206.6	12620.3	12366.7
42.5°	4885.6	4929.6	5247.9	5905.2	7049.0	9085.5	12563.4	15394.4	15037.2	13163.7	12837.7
45°	4463.8	4502.6	4784.7	5398.0	6502.9	8531.7	12299.4	16067.2	16025.8	13551.9	13112.0
47.5°	3982.5	4021.3	4313.7	4906.3	5956.9	7882.2	11851.8	16729.6	17399.8	14431.7	13924.5
50°	3395.1	3428.7	3728.9	4339.6	5390.2	7191.3	11230.7	17249.7	19133.6	15764.4	15127.8
52.5°	2699.0	2735.2	3027.6	3638.3	4717.4	6448.6	10413.0	17588.7	21136.5	17710.4	16926.3
55°	2008.1	2033.9	2287.5	2836.1	3884.2	5602.4	9388.3	17684.5	23408.5	20370.5	19389.8
57.5°	1456.9	1472.4	1635.4	2044.3	2944.8	4544.0	8143.6	17436.1	26112.7	23781.2	22546.8
60°	1180.0	1185.2	1234.3	1415.5	2046.9	3348.5	6640.1	16582.1	29047.2	28177.7	26622.5
62.5°	1071.3	1071.3	1084.3	1133.4	1384.4	2209.9	4820.9	14812.1	32193.8	33733.5	31650.4
65°	996.3	996.3	1001.4	1024.7	1092.0	1407.7	3043.2	11929.4	34846.3	40241.7	37607.4
67.5°	929.0	931.6	929.0	936.8	975.6	1040.3	1764.8	8239.3	36274.7	46985.3	44141.3
70°	859.1	864.3	851.4	851.4	882.4	885.0	1105.0	4518.2	35089.5	52636.8	51889.0
72.5°	776.3	784.1	763.4	758.2	781.5	771.1	830.7	2168.5	30126.2	54324.0	56290.7
75°	703.9	714.2	667.6	654.7	654.7	646.9	675.4	1112.7	19552.8	44314.7	47399.3
77.5°	639.2	659.9	584.8	543.4	533.1	509.8	551.2	680.6	8552.4	20805.3	20373.1
80°	527.9	556.4	481.3	432.1	414.0	388.2	434.7	476.1	2543.7	4831.3	4626.8
82.5°	393.3	406.3	341.6	307.9	292.4	274.3	326.1	331.2	828.1	1710.5	1933.0
85°	251.0	256.2	209.6	181.1	173.4	165.6	207.0	181.1	315.7	1257.6	1826.9
87.5°	88.0	100.9	80.2	72.5	77.6	64.7	95.7	54.3	88.0	887.6	1099.8
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)