

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: P971313

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971313  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-722-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

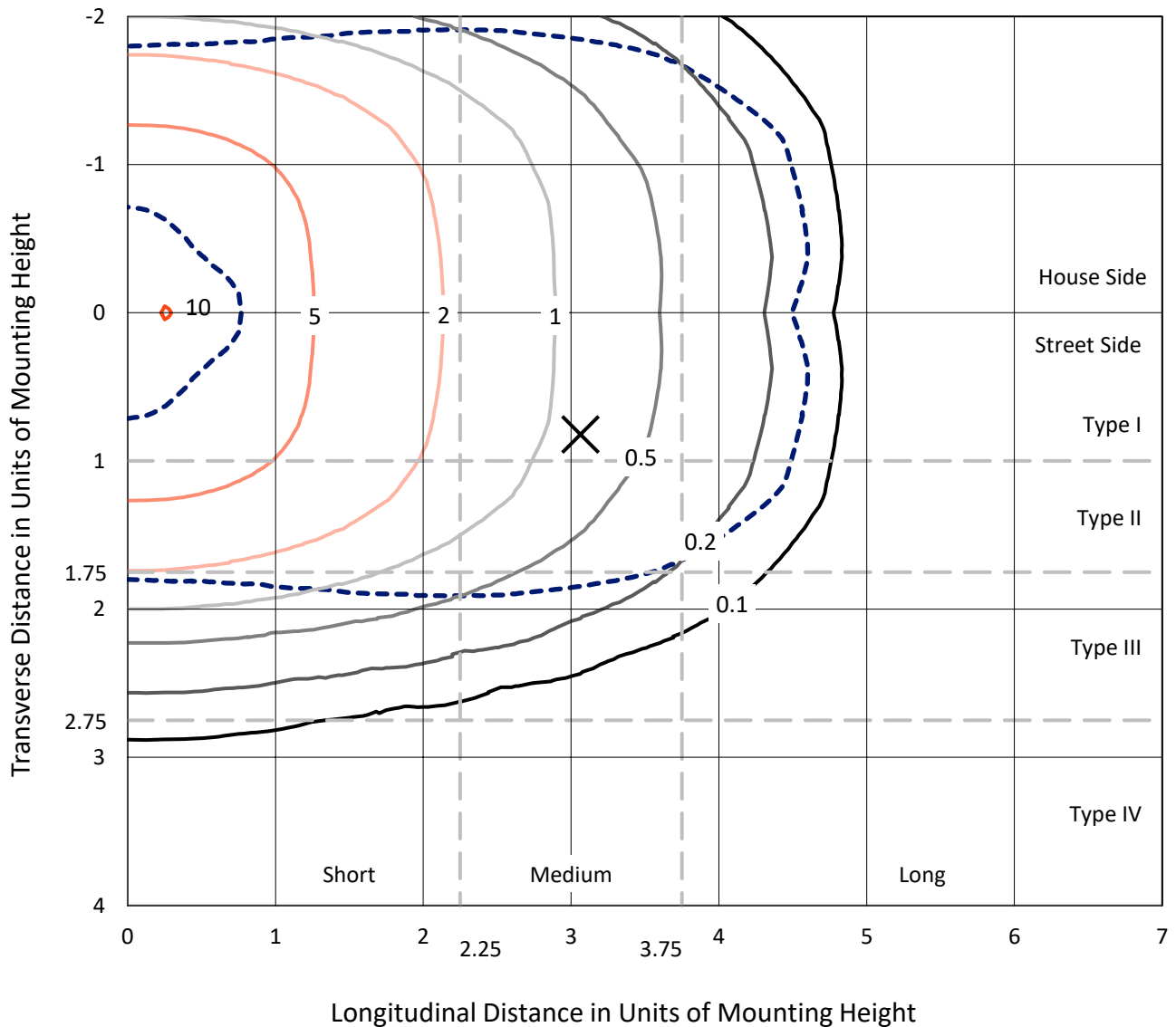
Lumens per Lamp: N/A  
Luminaire Lumens: 53805.3 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): 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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### Iso-Footcandle Lines of Horizontal Illumination

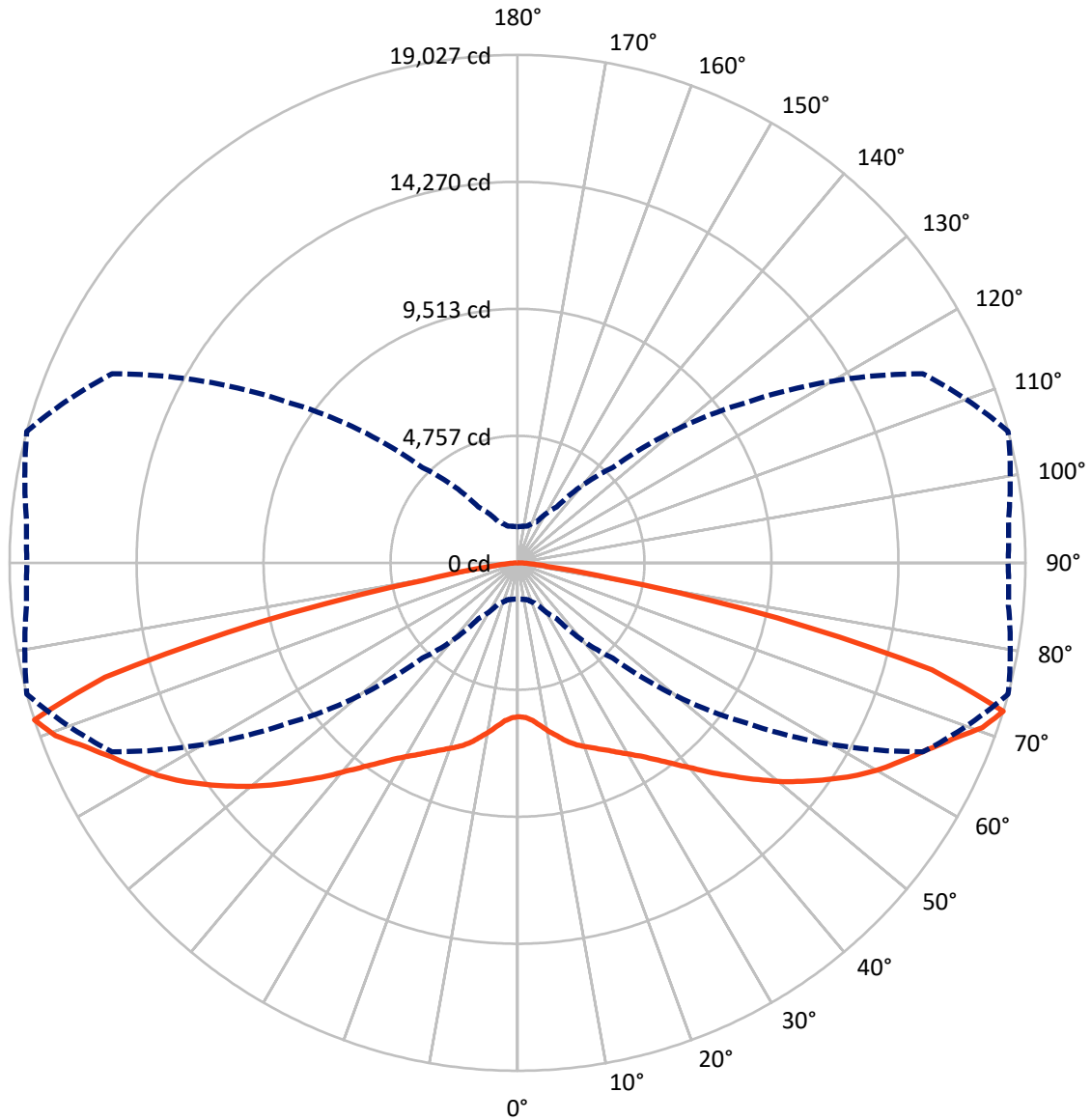
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26902.7	0.0	26902.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26902.7	0.0	26902.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	53805.3	0.0	53805.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.6	1.0
10°-20°	1862.1	3.5
20°-30°	3598.1	6.7
30°-40°	6075.7	11.3
40°-50°	9635.4	17.9
50°-60°	12900.7	24.0
60°-70°	12277.3	22.8
70°-80°	6406.5	11.9
80°-90°	484.9	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°	53805.3	100.0
0°-180°	53805.3	100.0

**Coefficient of Utilization**

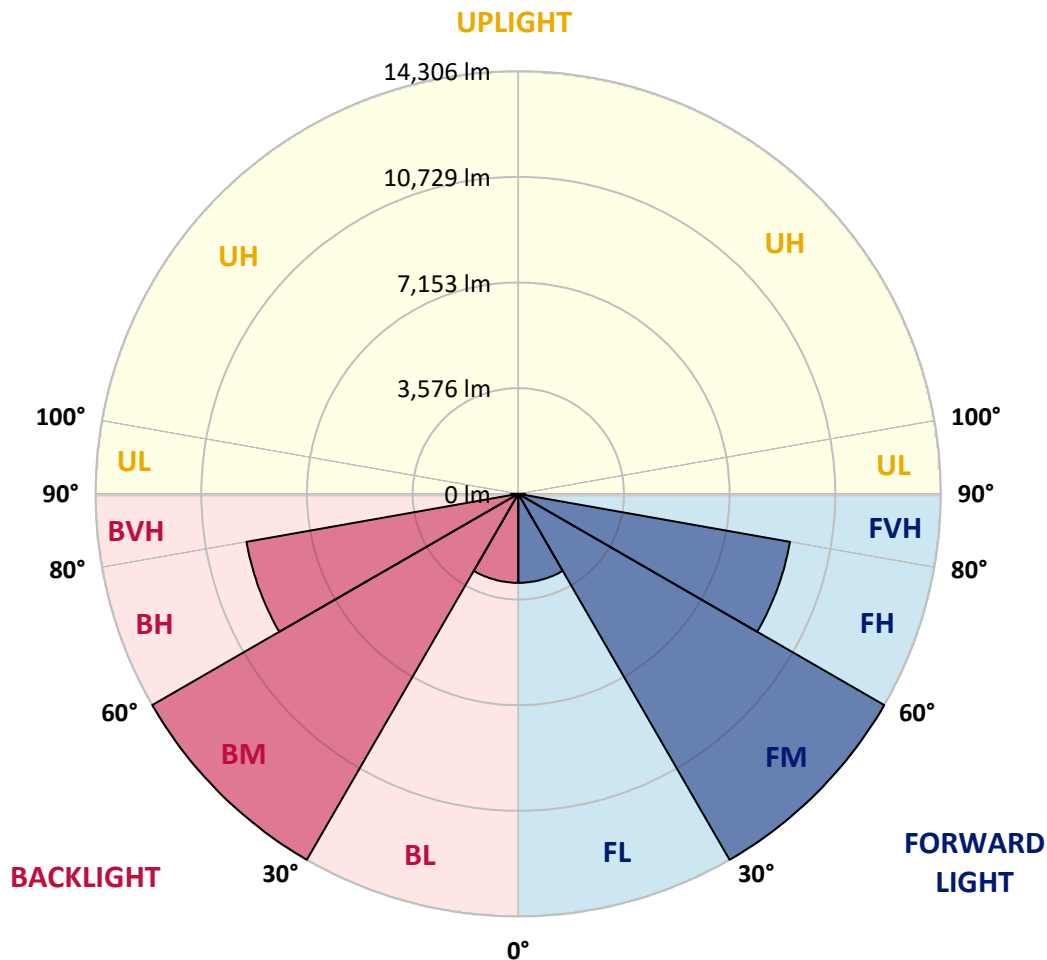


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3012.4	5.6			
FM (30°-60°)	14305.9	26.6			
FH (60°-80°)	9341.9	17.4			G4/12000
FVH (80°-90°)	242.5	0.5			G3/500
BL (0°-30°)	3012.4	5.6	B4/5000		
BM (30°-60°)	14305.9	26.6	B5		
BH (60°-80°)	9341.9	17.4	B5		G5
BVH (80°-90°)	242.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5763.5	5763.5	5763.5	5763.5	5763.5	5763.5	5763.5	5763.5	5763.5	5763.5	5763.5
2.5°	5763.5	5758.0	5763.5	5769.0	5766.2	5766.2	5780.0	5788.3	5804.7	5802.0	5799.2
5°	5725.0	5722.3	5744.3	5769.0	5788.3	5821.2	5862.4	5892.6	5931.1	5939.4	5939.4
7.5°	5705.9	5697.6	5736.0	5780.0	5840.4	5922.9	6002.5	6084.9	6150.8	6172.9	6178.3
10°	5719.6	5722.3	5774.5	5857.0	5953.1	6068.4	6181.1	6321.2	6414.6	6436.6	6458.5
12.5°	5782.7	5777.2	5865.2	5997.1	6128.9	6274.4	6406.4	6560.2	6661.8	6714.1	6736.0
15°	5898.2	5887.1	6010.8	6205.8	6398.2	6568.4	6675.5	6821.2	6939.2	7005.3	7030.0
17.5°	6035.5	6040.9	6203.1	6455.8	6708.5	6900.8	7002.5	7076.6	7167.3	7225.0	7252.5
20°	6277.2	6288.2	6469.5	6769.0	7057.4	7277.2	7359.6	7332.1	7356.8	7400.8	7433.8
22.5°	6601.4	6606.8	6810.2	7134.3	7436.5	7678.3	7733.2	7620.6	7551.9	7582.1	7604.1
25°	6977.8	7013.5	7216.7	7549.1	7859.6	8090.3	8115.0	7944.8	7774.4	7782.6	7796.4
27.5°	7436.5	7469.5	7675.5	8005.1	8321.2	8521.6	8518.9	8290.9	8040.9	7977.7	7996.9
30°	7933.8	7969.5	8181.0	8521.6	8815.6	8991.4	8953.0	8681.0	8323.8	8205.7	8219.5
32.5°	8524.4	8546.3	8760.7	9101.3	9373.2	9513.3	9433.7	9098.5	8653.6	8518.9	8551.9
35°	9238.6	9271.6	9430.9	9752.4	9991.4	10106.7	9972.1	9576.6	9076.6	8925.5	8947.4
37.5°	10054.5	10032.6	10213.9	10499.6	10697.4	10768.9	10584.8	10115.0	9560.1	9381.5	9414.5
40°	10906.2	10895.1	11093.0	11367.7	11474.9	11518.7	11246.8	10733.1	10117.8	9925.5	9988.6
42.5°	11678.1	11669.8	11936.3	12241.3	12370.4	12320.9	11977.5	11389.7	10763.3	10543.6	10598.5
45°	12296.2	12285.2	12612.1	13040.7	13293.4	13211.0	12749.5	12114.9	11417.2	11189.1	11241.3
47.5°	12771.5	12776.9	13128.6	13658.8	14101.1	14131.4	13537.9	12853.9	12136.9	11878.6	11955.6
50°	13114.9	13131.4	13507.8	14095.6	14699.9	14966.4	14342.8	13612.1	12881.4	12590.2	12678.1
52.5°	13200.1	13230.3	13683.5	14373.1	15084.6	15592.8	15161.5	14340.1	13587.4	13309.9	13381.4
55°	12746.8	12807.2	13381.4	14351.1	15320.9	16004.9	15881.2	15079.1	14298.9	14013.2	14092.8
57.5°	11705.6	11790.8	12461.0	13727.5	15268.6	16287.9	16438.9	15787.9	15010.4	14735.7	14798.8
60°	10246.8	10348.5	10991.4	12373.2	14532.4	16392.2	16831.7	16477.4	15664.3	15397.8	15455.5
62.5°	8046.4	8178.3	8947.4	10568.3	12977.5	15906.0	17166.9	17101.0	16252.1	15919.7	15958.2
65°	5161.9	5302.0	6112.4	8027.2	10903.4	14417.0	17271.4	17708.1	16872.9	16408.7	16466.4
67.5°	3112.5	3175.7	3576.7	4865.2	7969.5	12172.6	16386.8	18381.1	17598.2	17021.4	17065.2
70°	1991.7	2027.3	2266.4	2857.0	4505.3	8881.5	14194.5	18507.5	18477.3	17650.4	17645.0
72.5°	1351.6	1362.6	1425.8	1692.3	2549.4	5046.5	10469.3	16754.9	19026.8	18460.9	18372.9
75°	989.0	1049.4	1151.1	1197.7	1447.7	2521.9	5999.7	11771.5	16035.1	16282.3	15683.4
77.5°	736.3	739.0	879.0	934.0	1032.9	1343.4	2538.4	6571.2	9955.6	10452.8	9323.8
80°	623.6	590.6	587.9	752.8	777.5	837.8	1134.6	2269.1	3565.8	2162.0	1634.6
82.5°	519.2	483.5	436.8	587.9	530.2	513.7	491.7	923.0	1134.6	557.7	475.3
85°	362.6	346.1	329.6	384.6	302.2	258.2	236.3	431.3	478.0	236.3	208.8
87.5°	156.6	162.1	164.8	170.4	126.4	90.6	90.6	120.8	120.8	93.4	68.7
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)