

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: P959187

Luminaire Tested: **NAV-SB1A-722-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1A-722-U-5MQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3979.1 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

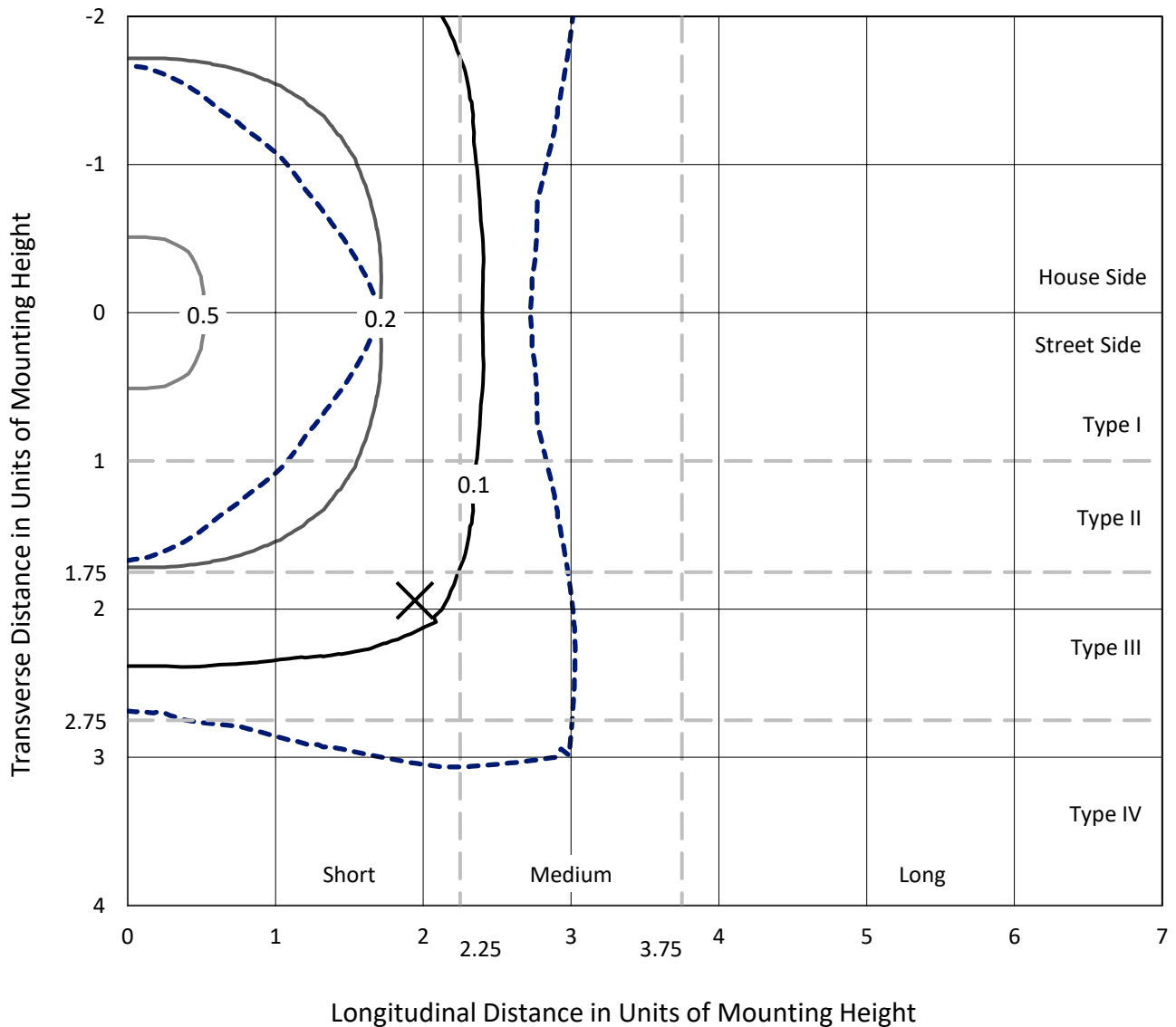
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

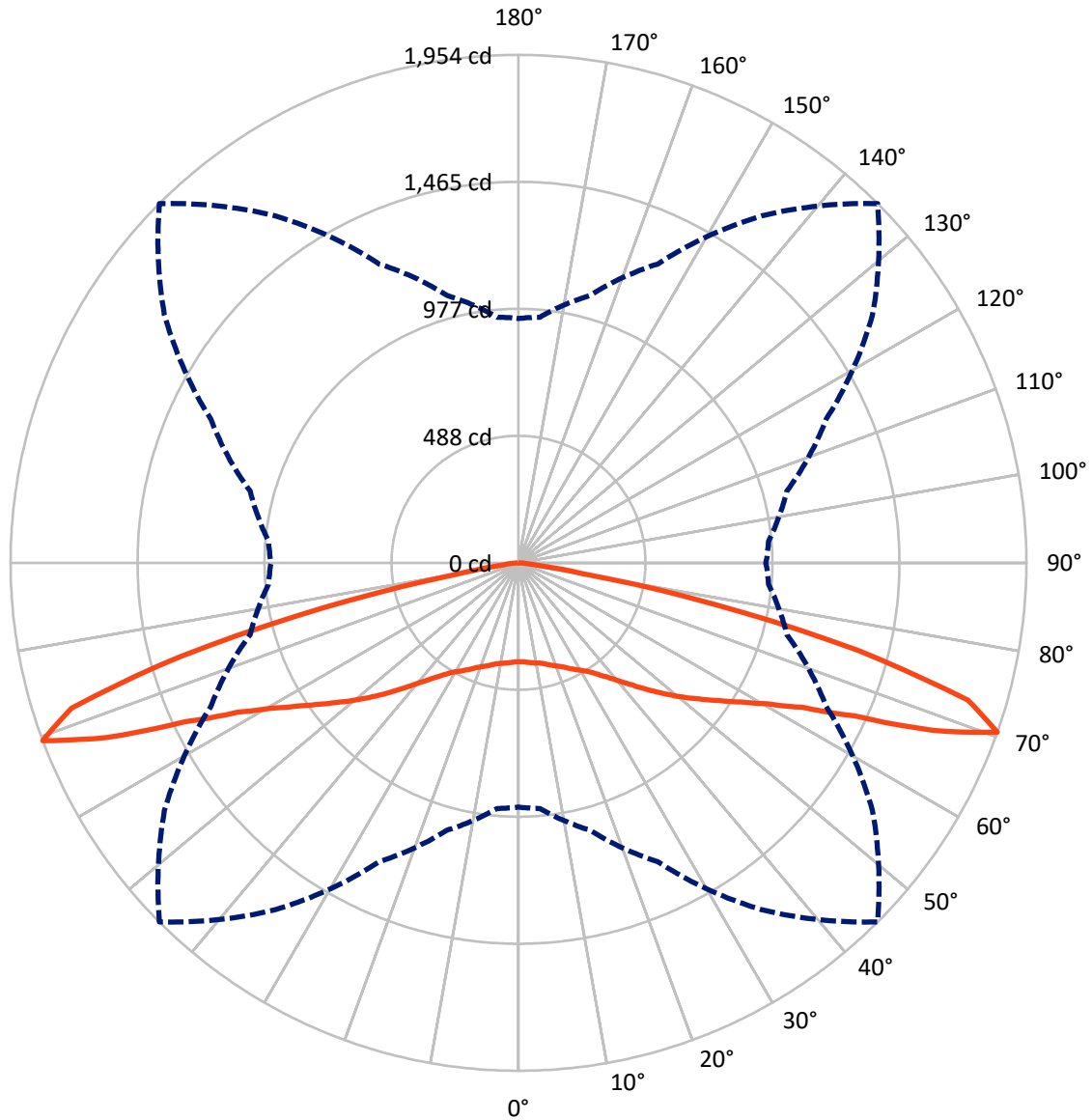
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1989.5	0.0	1989.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1989.5	0.0	1989.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3979.1	0.0	3979.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.0	0.9
10°-20°	114.8	2.9
20°-30°	205.2	5.2
30°-40°	332.6	8.4
40°-50°	541.8	13.6
50°-60°	826.1	20.8
60°-70°	1228.9	30.9
70°-80°	669.8	16.8
80°-90°	22.8	0.6
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°	3979.1	100.0
0°-180°	3979.1	100.0

**Coefficient of Utilization**



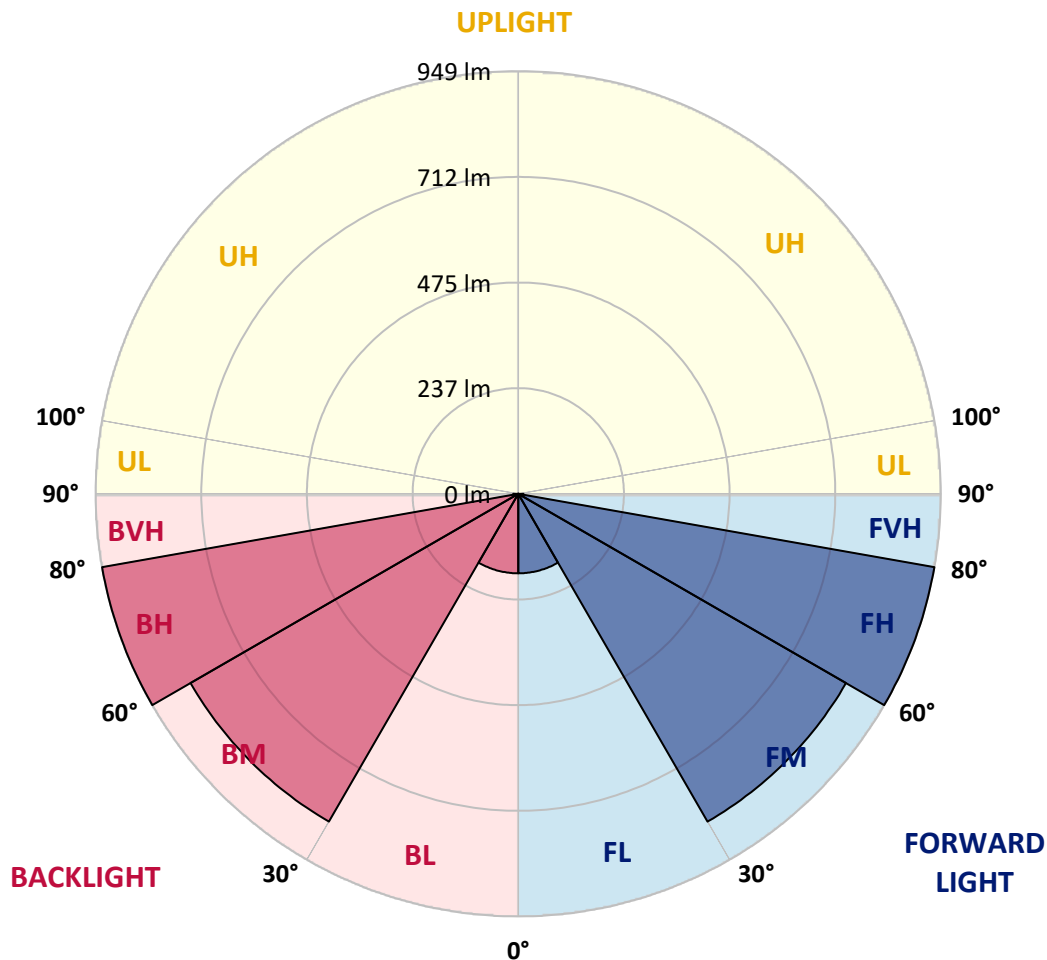
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.5	4.5			
FM (30°-60°)	850.2	21.4			
FH (60°-80°)	949.4	23.9			G1/1800
FVH (80°-90°)	11.4	0.3			G1/100
BL (0°-30°)	178.5	4.5	B1/500		
BM (30°-60°)	850.2	21.4	B1/1000		
BH (60°-80°)	949.4	23.9	B2/1000		G1/1800
BVH (80°-90°)	11.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2
2.5°	382.9	383.3	382.5	382.1	381.7	381.2	381.4	382.3	383.1	382.9	383.1
5°	386.1	386.5	385.9	385.7	385.0	384.8	384.8	385.7	386.3	385.9	386.1
7.5°	389.7	390.3	389.3	389.2	388.8	388.4	388.2	389.2	389.7	389.7	389.7
10°	393.1	393.7	393.0	392.4	392.0	392.0	391.5	392.4	393.3	393.1	393.1
12.5°	396.8	397.1	396.4	396.0	396.0	396.6	396.0	396.4	397.1	396.8	396.6
15°	401.1	401.3	401.1	401.7	402.7	404.8	402.9	402.5	402.9	401.9	401.9
17.5°	407.1	407.5	408.4	409.7	411.1	414.7	411.5	410.5	410.5	408.6	408.6
20°	414.5	415.1	416.4	418.7	420.5	423.9	420.7	419.3	418.7	416.2	416.2
22.5°	422.3	423.3	425.1	428.3	431.5	434.7	431.5	429.1	427.3	423.9	423.7
25°	431.3	432.4	435.3	440.4	444.8	449.5	445.7	440.9	437.3	432.4	432.2
27.5°	444.0	445.5	448.8	455.3	460.8	464.8	461.2	455.1	450.1	444.2	444.0
30°	462.1	463.5	467.4	474.3	478.1	480.6	478.3	473.4	467.4	460.8	460.8
32.5°	485.2	487.0	491.4	497.8	498.7	499.0	498.3	495.8	491.4	483.4	483.6
35°	514.6	516.6	521.6	526.7	526.0	526.7	525.6	524.8	521.6	512.4	512.4
37.5°	550.5	553.0	558.1	562.1	560.2	559.1	559.3	559.5	557.7	547.6	547.6
40°	592.3	595.5	599.3	603.5	600.1	597.1	599.1	600.6	599.1	588.7	588.7
42.5°	635.3	639.8	643.8	649.8	647.1	643.3	646.1	647.8	644.4	633.2	634.1
45°	683.0	687.4	692.6	701.6	699.6	695.6	699.6	700.0	694.2	681.0	682.4
47.5°	732.4	737.0	744.8	756.8	755.9	751.5	756.8	753.9	746.5	730.7	729.7
50°	779.1	785.5	797.4	814.3	815.8	810.5	817.4	812.0	799.7	779.9	779.5
52.5°	823.1	829.8	848.8	871.6	877.4	870.3	879.8	870.3	851.8	826.5	824.0
55°	869.2	876.8	899.3	929.1	940.7	935.5	944.3	930.1	903.7	873.0	868.8
57.5°	923.5	928.1	955.1	990.5	1010.0	1011.2	1015.2	991.3	959.3	924.3	919.5
60°	982.5	988.8	1018.2	1060.6	1091.5	1101.5	1097.3	1061.8	1024.6	984.4	978.1
62.5°	1058.0	1065.0	1100.1	1150.9	1199.8	1224.6	1208.2	1156.6	1110.7	1062.5	1054.1
65°	1120.5	1128.3	1191.8	1282.3	1371.3	1421.2	1380.0	1285.0	1202.4	1134.5	1123.3
67.5°	1075.1	1084.8	1184.4	1350.6	1572.1	1720.6	1579.7	1370.9	1209.0	1116.8	1103.1
70°	939.7	948.6	1065.0	1268.1	1628.7	1953.9	1662.7	1305.4	1068.8	965.7	951.9
72.5°	623.9	652.8	770.5	1014.2	1454.3	1808.1	1468.7	993.6	714.7	622.5	602.3
75°	206.9	230.1	310.5	525.8	974.1	1352.2	927.3	465.2	245.9	177.0	167.4
77.5°	52.2	60.2	82.9	150.5	388.6	769.9	349.8	122.9	66.9	46.7	41.7
80°	25.4	28.0	40.0	50.1	97.3	244.7	91.3	47.2	31.6	24.4	22.3
82.5°	13.9	14.1	22.5	28.4	36.2	63.3	37.5	27.6	18.1	14.8	14.8
85°	8.6	8.4	12.0	15.2	15.2	22.5	17.9	15.2	10.4	9.2	9.6
87.5°	3.4	3.4	4.4	4.8	4.2	5.8	4.6	5.0	4.0	3.8	4.0
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)