

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: P959189

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3843.7 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

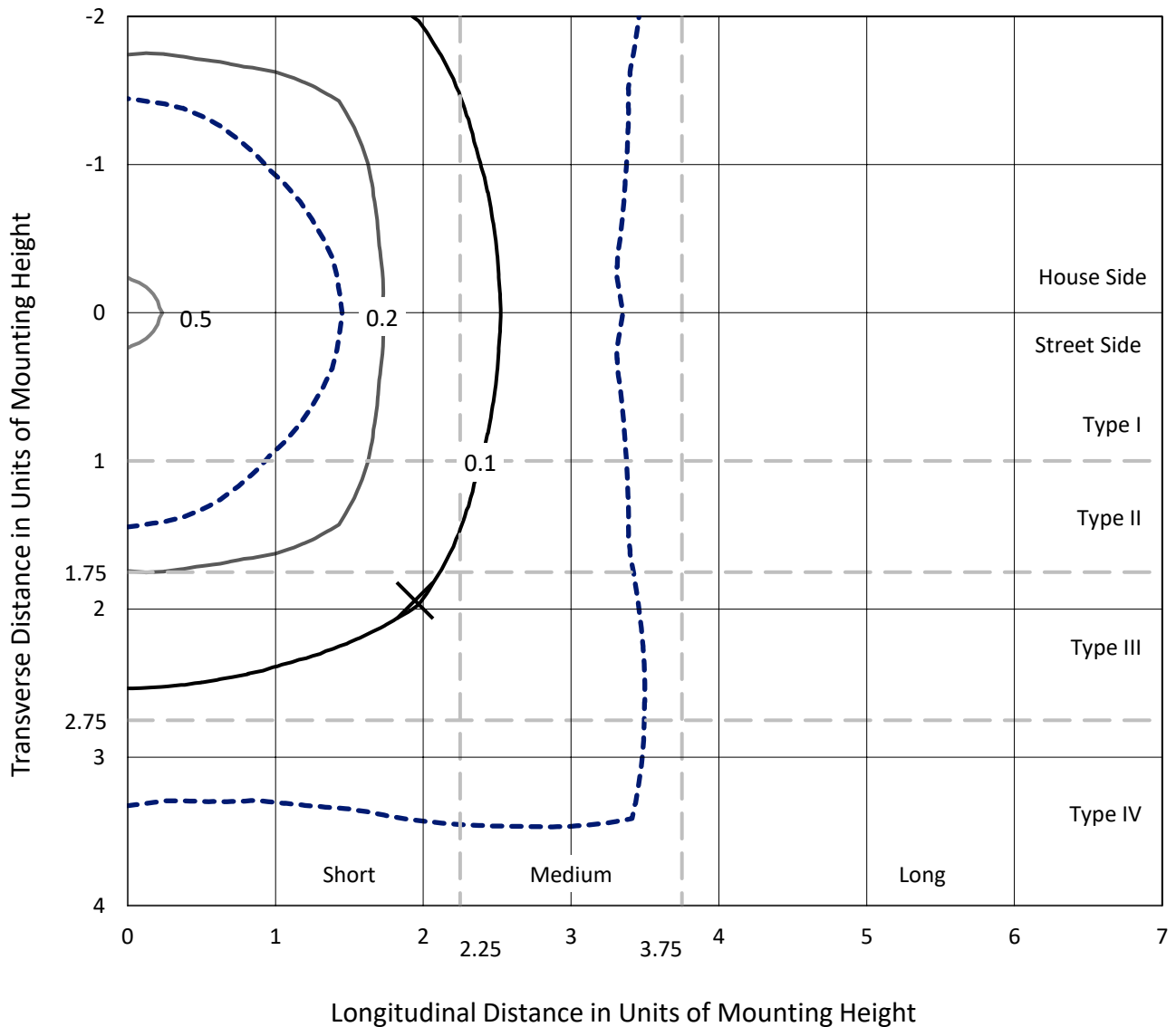
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

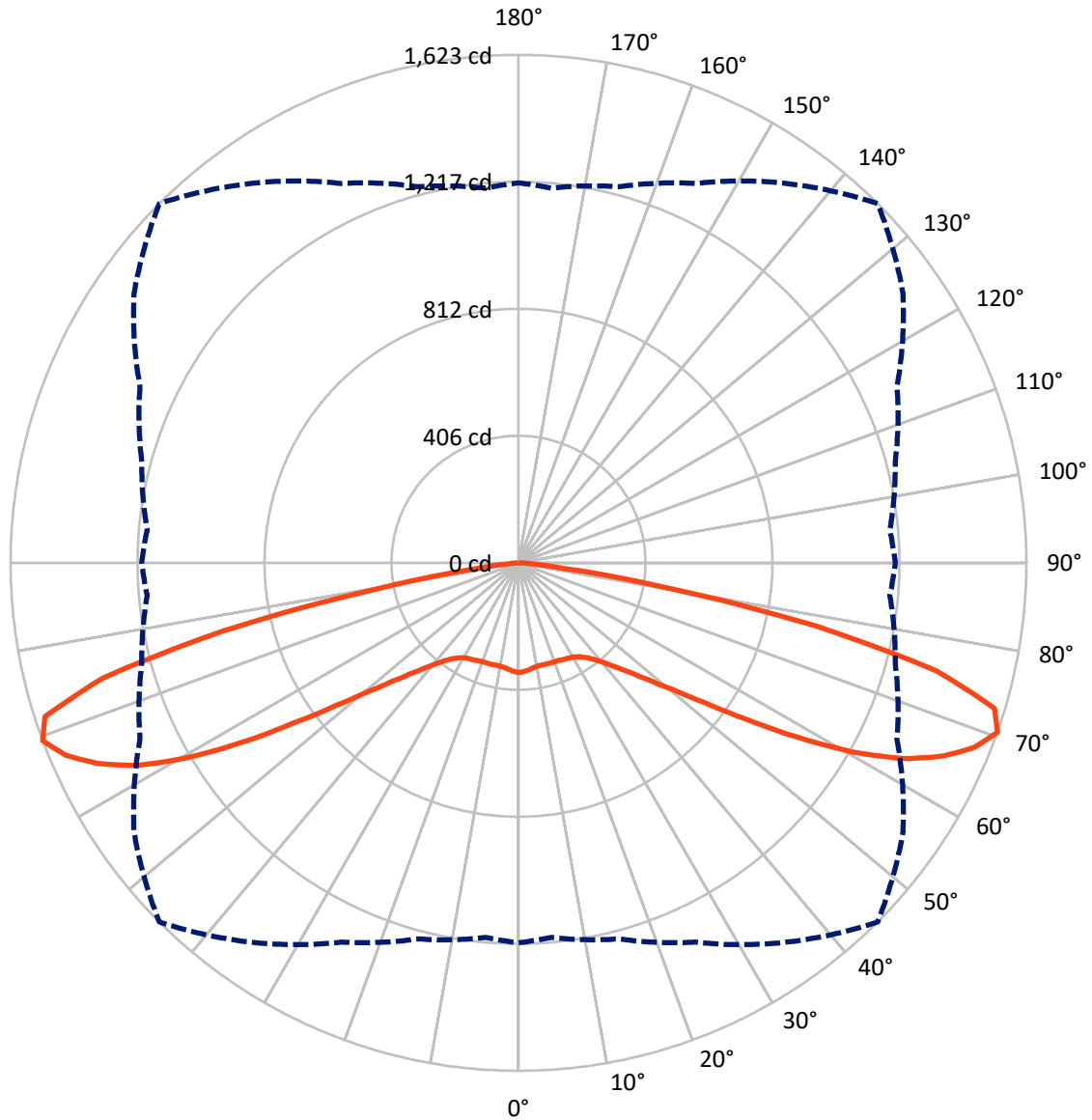
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	1921.9	0.0	1921.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1921.9	0.0	1921.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	3843.7	0.0	3843.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	0.8
10°-20°	95.8	2.5
20°-30°	159.4	4.1
30°-40°	241.0	6.3
40°-50°	400.5	10.4
50°-60°	755.8	19.7
60°-70°	1276.2	33.2
70°-80°	838.6	21.8
80°-90°	43.9	1.1
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°	3843.7	100.0
0°-180°	3843.7	100.0

Coefficient of Utilization



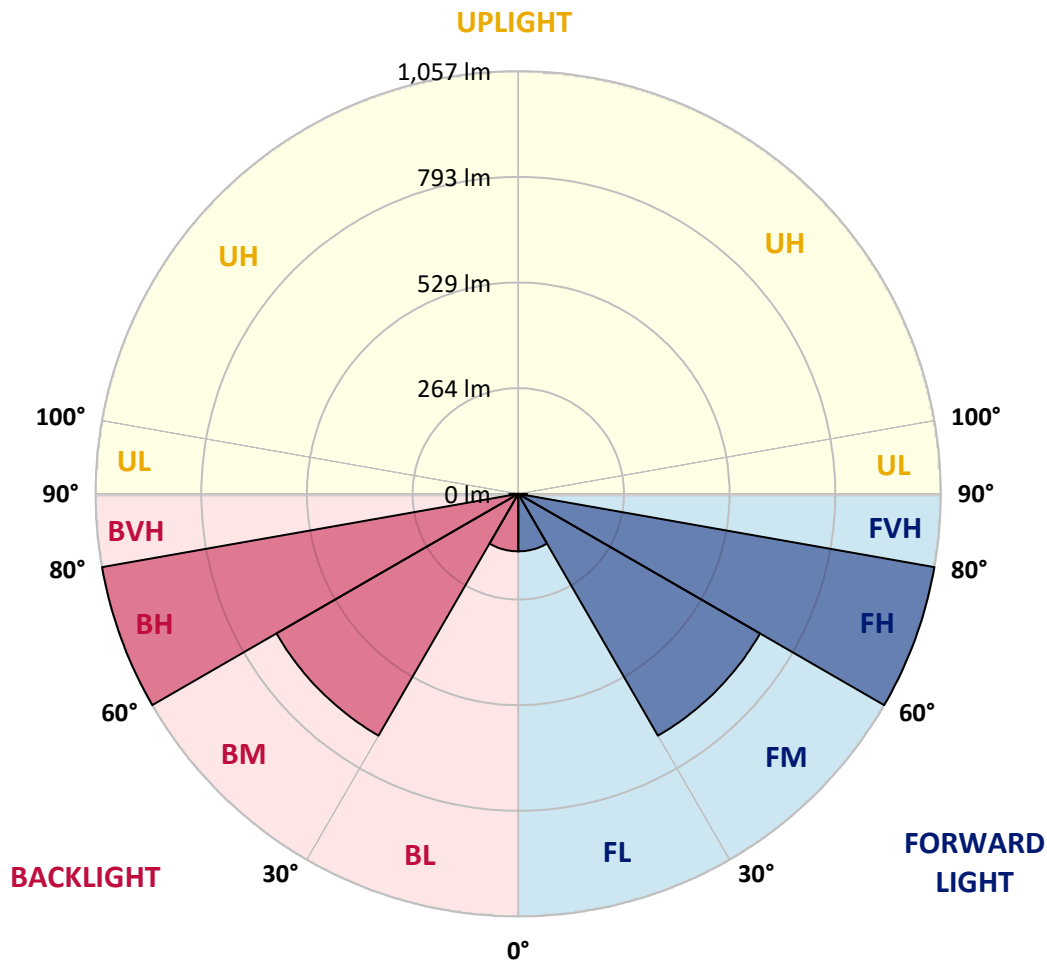
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	143.9	3.7			
FM (30°-60°)	698.7	18.2			
FH (60°-80°)	1057.4	27.5			G1/1800
FVH (80°-90°)	22.0	0.6			G1/100
BL (0°-30°)	143.9	3.7	B1/500		
BM (30°-60°)	698.7	18.2	B1/1000		
BH (60°-80°)	1057.4	27.5	B3/2500		G1/1800
BVH (80°-90°)	22.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7
2.5°	348.4	349.4	349.0	348.2	348.2	347.7	348.2	348.6	349.2	349.6	349.4
5°	343.8	344.6	344.4	343.8	344.0	343.5	343.8	344.4	344.8	345.0	345.0
7.5°	339.9	340.6	340.2	339.3	339.3	338.7	338.9	339.5	340.0	340.2	340.2
10°	338.9	339.7	338.5	336.8	336.2	335.5	335.7	336.2	337.4	338.0	338.0
12.5°	339.3	339.9	338.7	336.2	335.7	334.9	334.9	335.5	337.0	337.8	338.0
15°	340.4	341.0	339.3	336.6	336.0	335.5	335.3	336.0	337.8	339.3	339.5
17.5°	342.7	343.3	340.4	336.8	336.0	336.2	336.0	336.6	339.5	342.0	342.0
20°	344.6	345.0	341.2	336.8	336.0	336.2	336.0	337.2	340.8	344.4	344.6
22.5°	345.2	345.6	342.0	338.2	337.6	337.8	337.6	338.9	342.2	345.8	345.8
25°	345.4	346.0	343.3	340.2	341.2	341.6	341.2	341.4	344.0	347.3	347.1
27.5°	348.4	349.2	346.7	344.0	344.6	344.4	345.0	345.6	347.7	350.9	350.0
30°	354.6	355.3	353.0	350.4	350.0	348.6	350.4	352.4	354.6	357.4	356.8
32.5°	364.8	366.0	363.3	360.4	358.6	357.8	359.3	362.6	365.6	368.6	367.4
35°	381.8	382.6	380.0	374.8	371.6	371.6	372.8	377.2	382.0	385.8	384.4
37.5°	405.8	406.7	402.2	396.0	391.1	391.1	392.8	397.4	404.6	410.0	408.0
40°	434.9	436.3	430.5	424.1	419.5	418.7	420.8	426.0	432.8	439.5	437.4
42.5°	470.1	471.7	464.1	458.5	454.9	454.9	455.9	460.7	466.9	475.3	474.7
45°	515.1	517.8	507.5	501.8	498.5	499.3	499.9	504.1	509.6	519.3	518.9
47.5°	568.6	571.4	560.4	554.6	554.0	557.8	555.4	558.4	561.4	572.4	569.2
50°	629.3	634.2	626.6	626.2	627.3	634.4	628.7	630.4	626.9	634.0	629.8
52.5°	703.7	710.6	709.2	711.7	725.0	739.4	726.6	721.0	708.3	710.4	703.0
55°	793.8	804.3	806.4	820.7	851.1	880.5	853.3	830.8	803.5	798.6	790.8
57.5°	896.3	904.7	914.2	943.6	1000.3	1052.5	1000.3	950.4	907.6	897.5	890.2
60°	1006.6	1016.9	1026.1	1069.5	1153.7	1227.1	1152.2	1072.9	1016.3	1002.6	990.6
62.5°	1125.0	1138.4	1144.8	1192.9	1291.2	1378.7	1292.6	1196.5	1133.8	1119.0	1107.0
65°	1238.7	1249.7	1256.9	1308.2	1402.1	1489.8	1408.5	1313.8	1249.3	1229.9	1220.3
67.5°	1291.6	1297.6	1315.2	1373.3	1472.4	1572.6	1489.2	1379.5	1307.4	1273.5	1273.9
70°	1214.1	1201.9	1244.2	1337.4	1480.8	1623.3	1500.0	1334.6	1246.3	1191.2	1204.3
72.5°	938.2	917.3	990.8	1149.9	1384.9	1590.9	1394.5	1159.0	1036.5	924.7	952.4
75°	510.4	486.7	588.1	789.6	1104.4	1378.9	1129.8	812.1	654.9	506.7	539.7
77.5°	144.0	135.1	217.0	382.0	664.3	968.2	689.8	390.4	257.4	152.6	169.6
80°	44.2	42.7	57.9	115.1	282.1	463.7	271.1	116.4	73.7	46.5	49.1
82.5°	26.1	24.0	28.8	41.9	72.0	145.7	69.9	43.8	35.2	23.6	25.5
85°	15.0	13.9	17.0	20.4	24.2	31.0	20.2	20.8	18.8	12.6	13.2
87.5°	6.1	5.6	6.6	6.4	5.6	7.2	5.4	6.4	7.6	5.0	4.6
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)