

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: P959714

Luminaire Tested: **NAV-SB1B-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959714
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-SB1B-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4994.8 lumens
Efficiency: N/A
Efficacy: 125.5 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

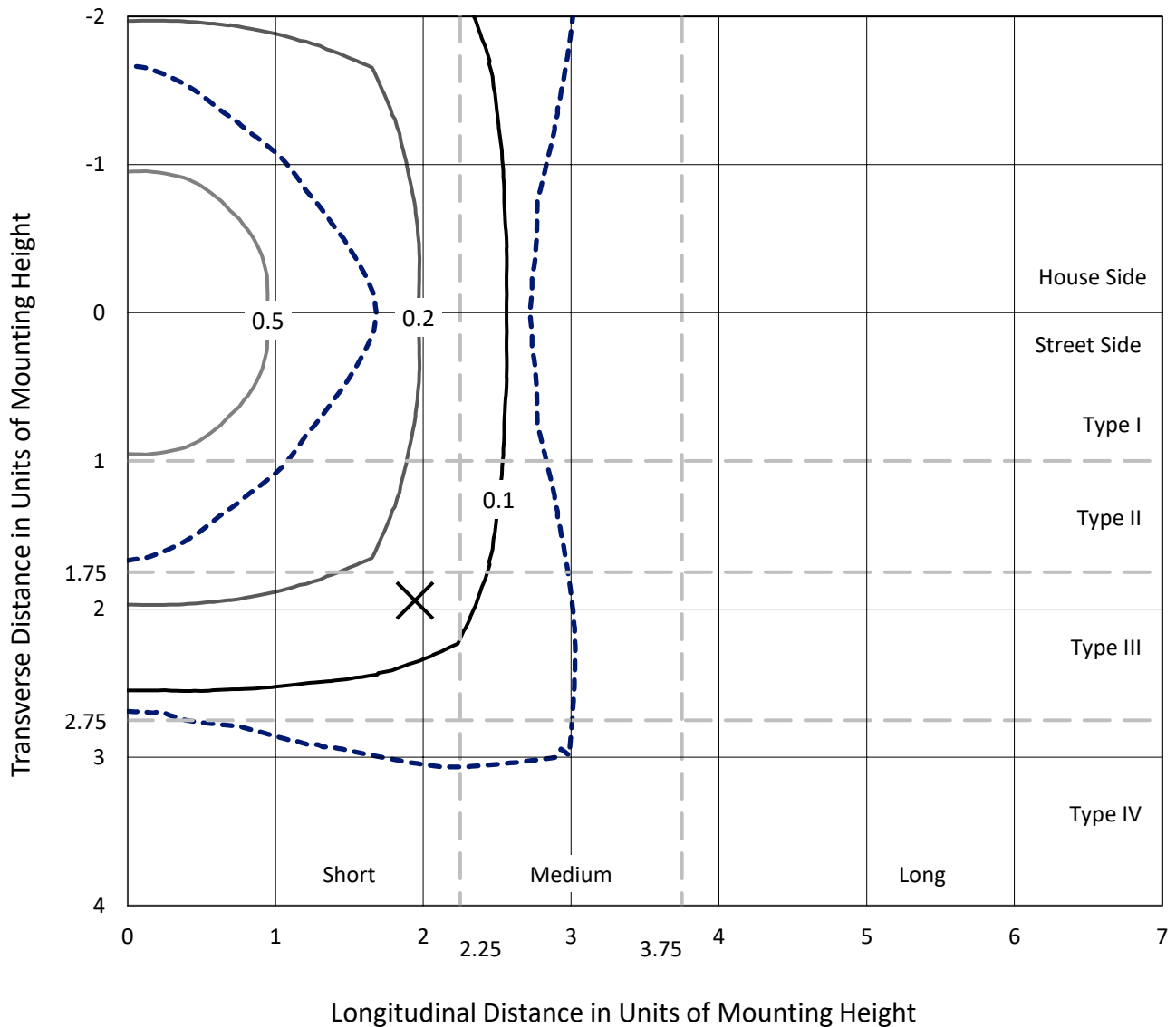
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

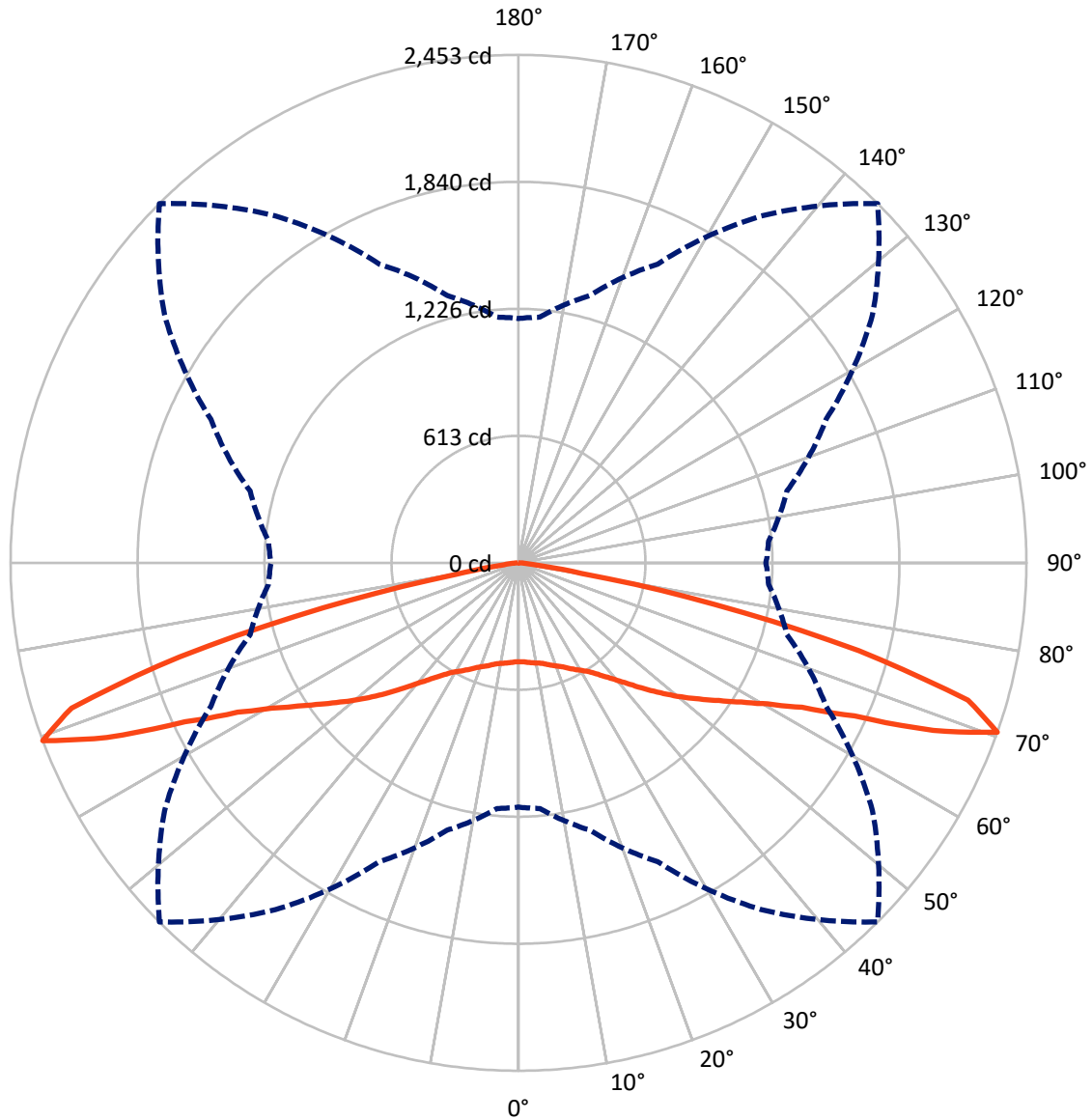
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	2497.4	0.0	2497.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2497.4	0.0	2497.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	4994.8	0.0	4994.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	0.9
10°-20°	144.1	2.9
20°-30°	257.6	5.2
30°-40°	417.5	8.4
40°-50°	680.1	13.6
50°-60°	1036.9	20.8
60°-70°	1542.6	30.9
70°-80°	840.8	16.8
80°-90°	28.6	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°	4994.8	100.0
0°-180°	4994.8	100.0

Coefficient of Utilization



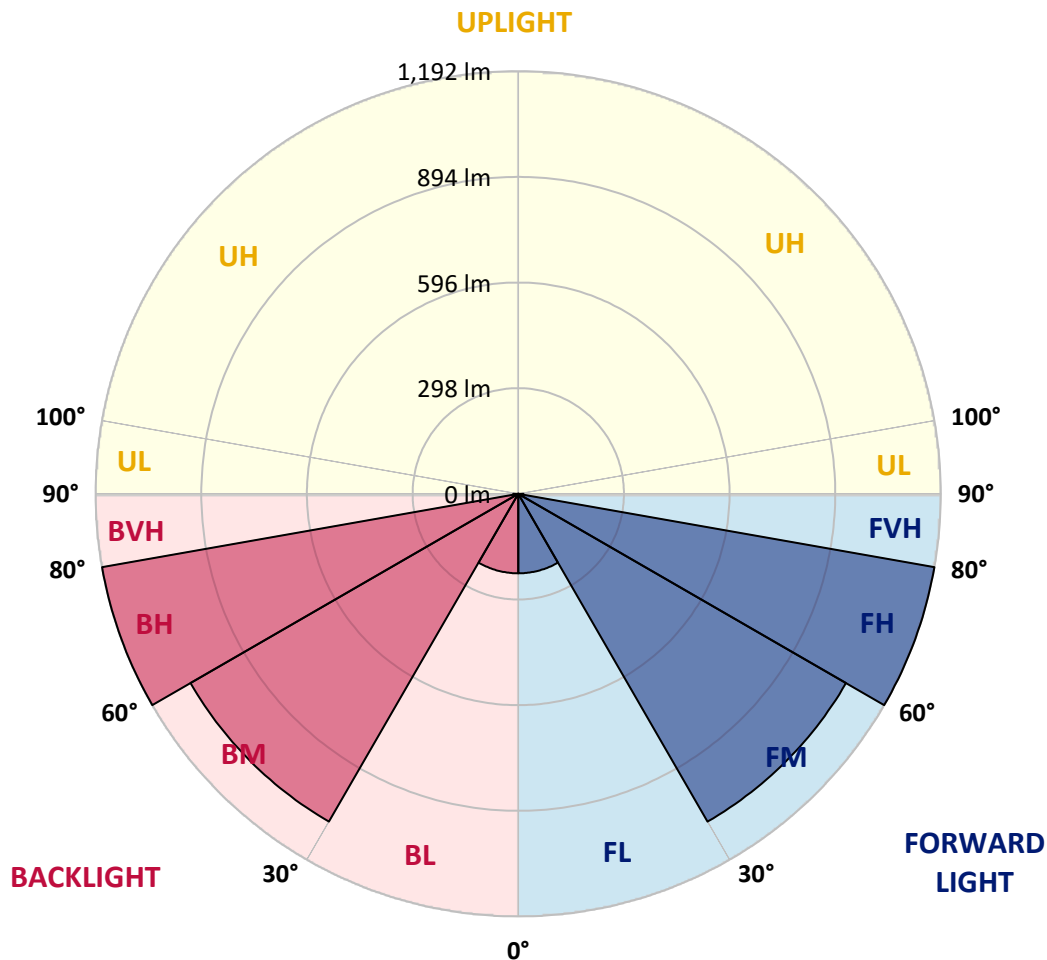
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	224.1	4.5			
FM (30°-60°)	1067.3	21.4			
FH (60°-80°)	1191.7	23.9			G1/1800
FVH (80°-90°)	14.3	0.3			G1/100
BL (0°-30°)	224.1	4.5	B1/500		
BM (30°-60°)	1067.3	21.4	B2/2500		
BH (60°-80°)	1191.7	23.9	B3/2500		G1/1800
BVH (80°-90°)	14.3	0.3			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°	478.5	478.5	478.5	478.5	478.5	478.5	478.5	478.5	478.5	478.5	478.5
2.5°	480.7	481.2	480.2	479.7	479.2	478.5	478.7	480.0	480.9	480.7	480.9
5°	484.7	485.2	484.5	484.2	483.2	483.0	483.0	484.2	484.9	484.5	484.7
7.5°	489.2	489.9	488.7	488.5	488.0	487.5	487.2	488.5	489.2	489.2	489.2
10°	493.5	494.3	493.2	492.5	492.0	492.0	491.5	492.5	493.7	493.5	493.5
12.5°	498.0	498.6	497.5	497.0	497.0	497.7	497.0	497.5	498.6	498.0	497.7
15°	503.5	503.8	503.5	504.3	505.5	508.1	505.7	505.3	505.7	504.5	504.5
17.5°	511.1	511.6	512.6	514.3	516.1	520.6	516.6	515.3	515.3	512.8	512.8
20°	520.3	521.1	522.5	525.6	527.9	532.1	528.1	526.3	525.6	522.3	522.3
22.5°	530.1	531.4	533.6	537.6	541.6	545.6	541.6	538.6	536.4	532.1	531.9
25°	541.4	542.9	546.4	552.9	558.4	564.3	559.4	553.4	548.9	542.9	542.6
27.5°	557.4	559.2	563.4	571.4	578.5	583.5	579.0	571.2	565.0	557.7	557.4
30°	580.0	581.8	586.8	595.3	600.0	603.3	600.3	594.3	586.8	578.5	578.5
32.5°	609.1	611.3	616.8	624.9	625.9	626.4	625.4	622.4	616.8	606.8	607.1
35°	646.0	648.5	654.8	661.2	660.3	661.2	659.8	658.8	654.8	643.2	643.2
37.5°	691.1	694.1	700.6	705.6	703.2	701.9	702.1	702.4	700.1	687.4	687.4
40°	743.5	747.5	752.2	757.6	753.3	749.5	752.0	754.0	752.0	739.0	739.0
42.5°	797.4	803.2	808.2	815.7	812.2	807.5	811.0	813.2	808.9	794.9	795.9
45°	857.3	862.8	869.4	880.7	878.1	873.2	878.1	878.6	871.4	854.8	856.6
47.5°	919.3	925.1	934.8	949.9	948.8	943.4	949.9	946.4	937.1	917.3	916.0
50°	978.0	985.9	1001.0	1022.1	1024.1	1017.3	1026.1	1019.4	1003.8	979.0	978.5
52.5°	1033.1	1041.7	1065.5	1094.1	1101.4	1092.5	1104.3	1092.5	1069.3	1037.4	1034.4
55°	1091.1	1100.5	1128.9	1166.2	1180.8	1174.3	1185.3	1167.6	1134.5	1095.8	1090.6
57.5°	1159.3	1165.0	1198.8	1243.3	1267.8	1269.4	1274.4	1244.2	1204.2	1160.3	1154.3
60°	1233.3	1241.3	1278.2	1331.3	1370.1	1382.7	1377.4	1332.8	1286.2	1235.7	1227.7
62.5°	1328.0	1336.8	1381.0	1444.6	1506.0	1537.2	1516.6	1451.9	1394.2	1333.8	1323.3
65°	1406.5	1416.3	1496.1	1609.7	1721.5	1783.9	1732.2	1613.1	1509.3	1424.0	1410.0
67.5°	1349.6	1361.6	1486.8	1695.4	1973.5	2159.8	1983.1	1721.0	1517.6	1402.0	1384.7
70°	1179.6	1190.8	1336.8	1591.8	2044.5	2452.7	2087.1	1638.8	1341.6	1212.2	1194.8
72.5°	783.1	819.5	967.2	1273.2	1825.5	2269.7	1843.6	1247.3	897.2	781.4	756.0
75°	259.8	288.8	389.7	660.0	1222.7	1697.4	1164.0	584.0	308.7	222.2	210.1
77.5°	65.5	75.4	104.0	188.8	487.7	966.5	439.1	154.3	84.0	58.6	52.4
80°	31.9	35.2	50.1	62.9	122.1	307.2	114.6	59.1	39.7	30.5	28.1
82.5°	17.5	17.8	28.3	35.6	45.4	79.5	47.2	34.6	22.9	18.6	18.6
85°	10.8	10.6	15.1	19.1	19.1	28.3	22.5	19.1	13.0	11.6	12.0
87.5°	4.3	4.3	5.5	6.0	5.2	7.3	5.7	6.3	5.0	4.7	5.0
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)