

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: P882032

Luminaire Tested: **NAV-SB1D-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8209 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

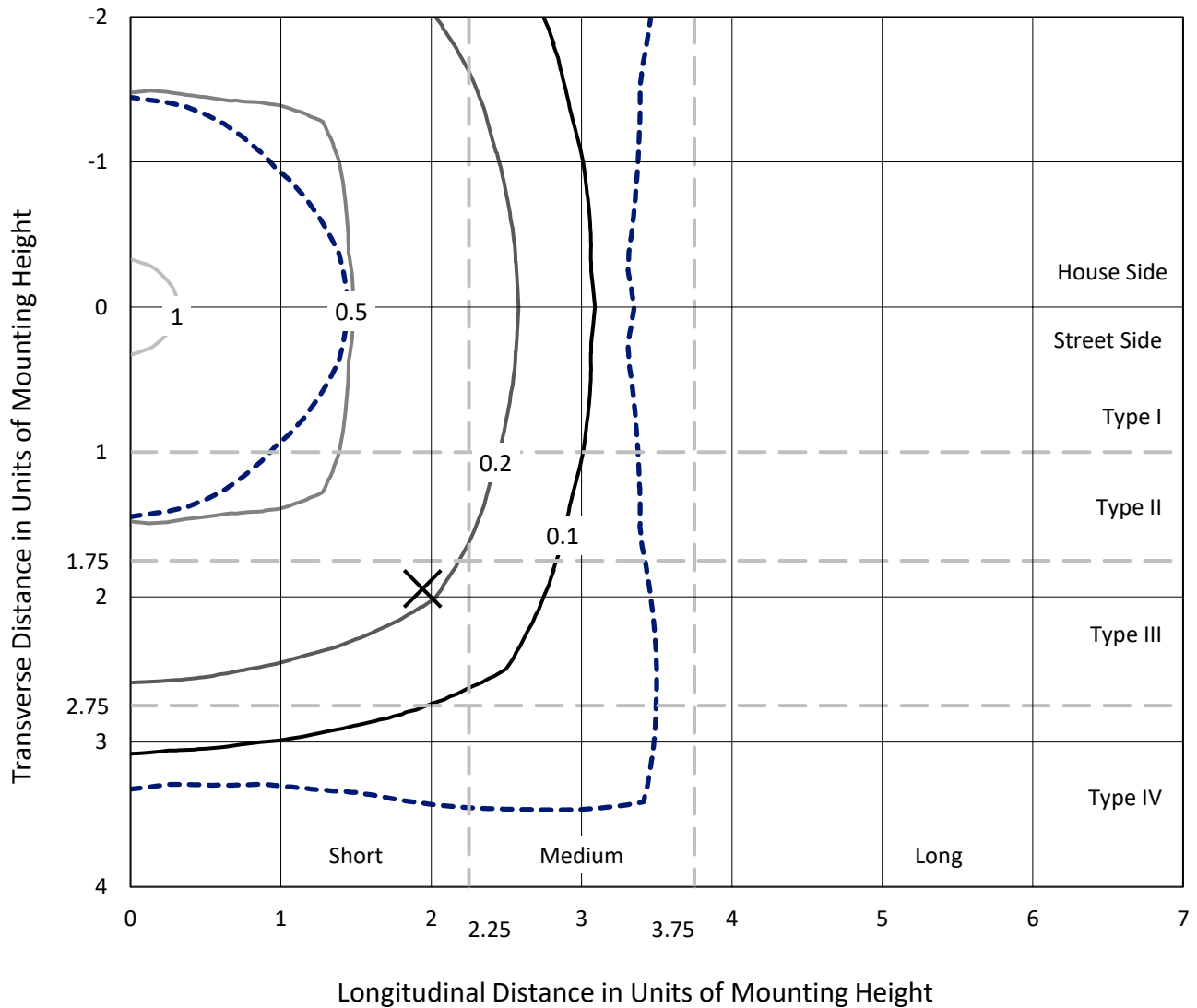
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

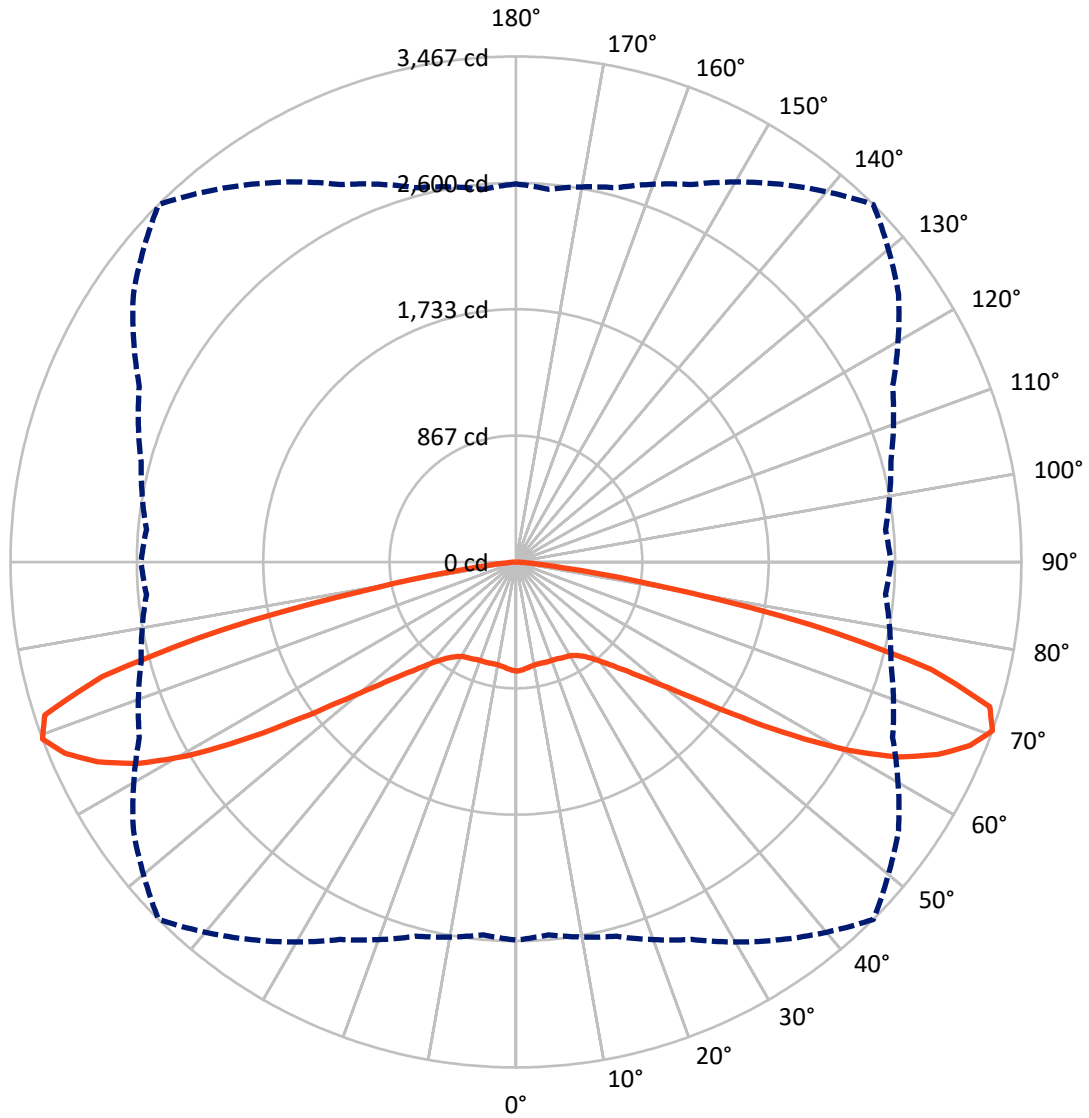
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	4104.5	0.0	4104.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4104.5	0.0	4104.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8209.0	0.0	8209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	0.8
10°-20°	204.5	2.5
20°-30°	340.4	4.1
30°-40°	514.7	6.3
40°-50°	855.4	10.4
50°-60°	1614.1	19.7
60°-70°	2725.5	33.2
70°-80°	1790.9	21.8
80°-90°	93.8	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°	8209.0	100.0
0°-180°	8209.0	100.0

Coefficient of Utilization



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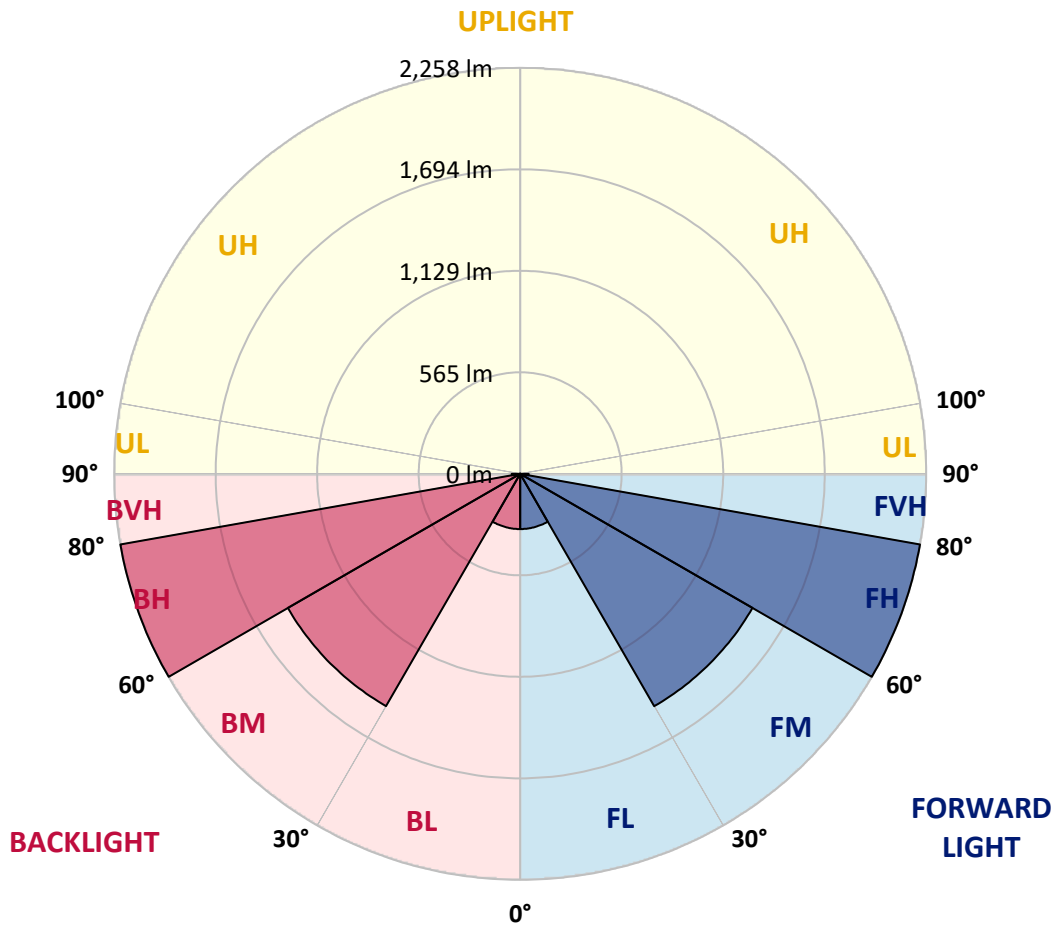
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.3	3.7			
FM (30°-60°)	1492.1	18.2			
FH (60°-80°)	2258.2	27.5			G2/5000
FVH (80°-90°)	46.9	0.6			G1/100
BL (0°-30°)	307.3	3.7	B1/500		
BM (30°-60°)	1492.1	18.2	B2/2500		
BH (60°-80°)	2258.2	27.5	B3/2500		G2/5000
BVH (80°-90°)	46.9	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-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	748.8	748.8	748.8	748.8	748.8	748.8	748.8	748.8	748.8	748.8	748.8
2.5°	744.1	746.3	745.4	743.7	743.7	742.4	743.7	744.6	745.8	746.7	746.3
5°	734.3	736.0	735.6	734.3	734.7	733.5	734.3	735.6	736.5	736.9	736.9
7.5°	725.8	727.5	726.6	724.5	724.5	723.2	723.7	724.9	726.2	726.6	726.6
10°	723.7	725.4	722.8	719.4	718.1	716.4	716.8	718.1	720.7	721.9	721.9
12.5°	724.5	725.8	723.2	718.1	716.8	715.1	715.1	716.4	719.8	721.5	721.9
15°	727.1	728.3	724.5	719.0	717.7	716.4	716.0	717.7	721.5	724.5	724.9
17.5°	731.8	733.0	727.1	719.4	717.7	718.1	717.7	719.0	724.9	730.5	730.5
20°	736.0	736.9	728.8	719.4	717.7	718.1	717.7	720.2	727.9	735.6	736.0
22.5°	737.3	738.2	730.5	722.4	721.1	721.5	721.1	723.7	730.9	738.6	738.6
25°	737.7	739.0	733.0	726.6	728.8	729.6	728.8	729.2	734.7	741.6	741.1
27.5°	744.1	745.8	740.3	734.7	736.0	735.6	736.9	738.2	742.4	749.3	747.5
30°	757.4	758.6	753.9	748.4	747.5	744.6	748.4	752.7	757.4	763.3	762.1
32.5°	779.1	781.7	775.7	769.7	765.9	764.2	767.2	774.4	780.8	787.2	784.7
35°	815.4	817.1	811.5	800.5	793.6	793.6	796.2	805.6	815.8	823.9	820.9
37.5°	866.6	868.7	858.9	845.7	835.4	835.4	838.9	848.7	864.0	875.6	871.3
40°	928.9	931.9	919.5	905.8	896.0	894.3	898.6	909.7	924.2	938.7	934.0
42.5°	1004.0	1007.4	991.2	979.2	971.6	971.6	973.7	983.9	997.2	1015.1	1013.8
45°	1100.0	1106.0	1083.8	1071.8	1064.6	1066.3	1067.6	1076.5	1088.5	1108.9	1108.1
47.5°	1214.3	1220.3	1196.8	1184.5	1183.2	1191.3	1186.2	1192.6	1199.0	1222.4	1215.6
50°	1344.0	1354.3	1338.1	1337.2	1339.8	1354.7	1342.8	1346.2	1338.9	1353.9	1344.9
52.5°	1502.8	1517.7	1514.7	1519.8	1548.4	1579.1	1551.8	1539.9	1512.6	1517.3	1501.5
55°	1695.2	1717.8	1722.1	1752.8	1817.7	1880.4	1822.4	1774.1	1716.1	1705.4	1688.8
57.5°	1914.1	1932.0	1952.5	2015.2	2136.4	2247.8	2136.4	2029.7	1938.4	1916.7	1901.3
60°	2149.6	2171.8	2191.4	2284.0	2464.1	2620.7	2460.7	2291.3	2170.5	2141.1	2115.5
62.5°	2402.6	2431.2	2444.9	2547.7	2757.6	2944.5	2760.6	2555.4	2421.4	2389.8	2364.2
65°	2645.4	2668.9	2684.3	2793.9	2994.5	3181.8	3008.1	2805.9	2668.0	2626.7	2606.2
67.5°	2758.5	2771.3	2808.8	2933.0	3144.6	3358.4	3180.5	2946.2	2792.2	2719.7	2720.5
70°	2592.9	2566.9	2657.4	2856.2	3162.6	3466.8	3203.5	2850.2	2661.6	2543.9	2572.0
72.5°	2003.7	1958.9	2115.9	2456.0	2957.8	3397.7	2978.2	2475.2	2213.6	1974.7	2034.0
75°	1090.2	1039.4	1256.2	1686.2	2358.7	2945.0	2412.9	1734.5	1398.7	1082.1	1152.5
77.5°	307.6	288.4	463.4	815.8	1418.7	2067.7	1473.3	833.7	549.6	326.0	362.3
80°	94.3	91.3	123.7	245.8	602.5	990.3	579.0	248.8	157.4	99.4	105.0
82.5°	55.9	51.2	61.4	89.6	153.6	311.1	149.3	93.4	75.1	50.3	54.6
85°	32.0	29.9	36.3	43.5	51.6	66.1	43.1	44.4	40.1	26.9	28.2
87.5°	13.2	11.9	14.1	13.7	11.9	15.4	11.5	13.7	16.2	10.7	9.8
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)