

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: P882072

Luminaire Tested: **NAV-SB1D-740-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882072
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-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11107 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

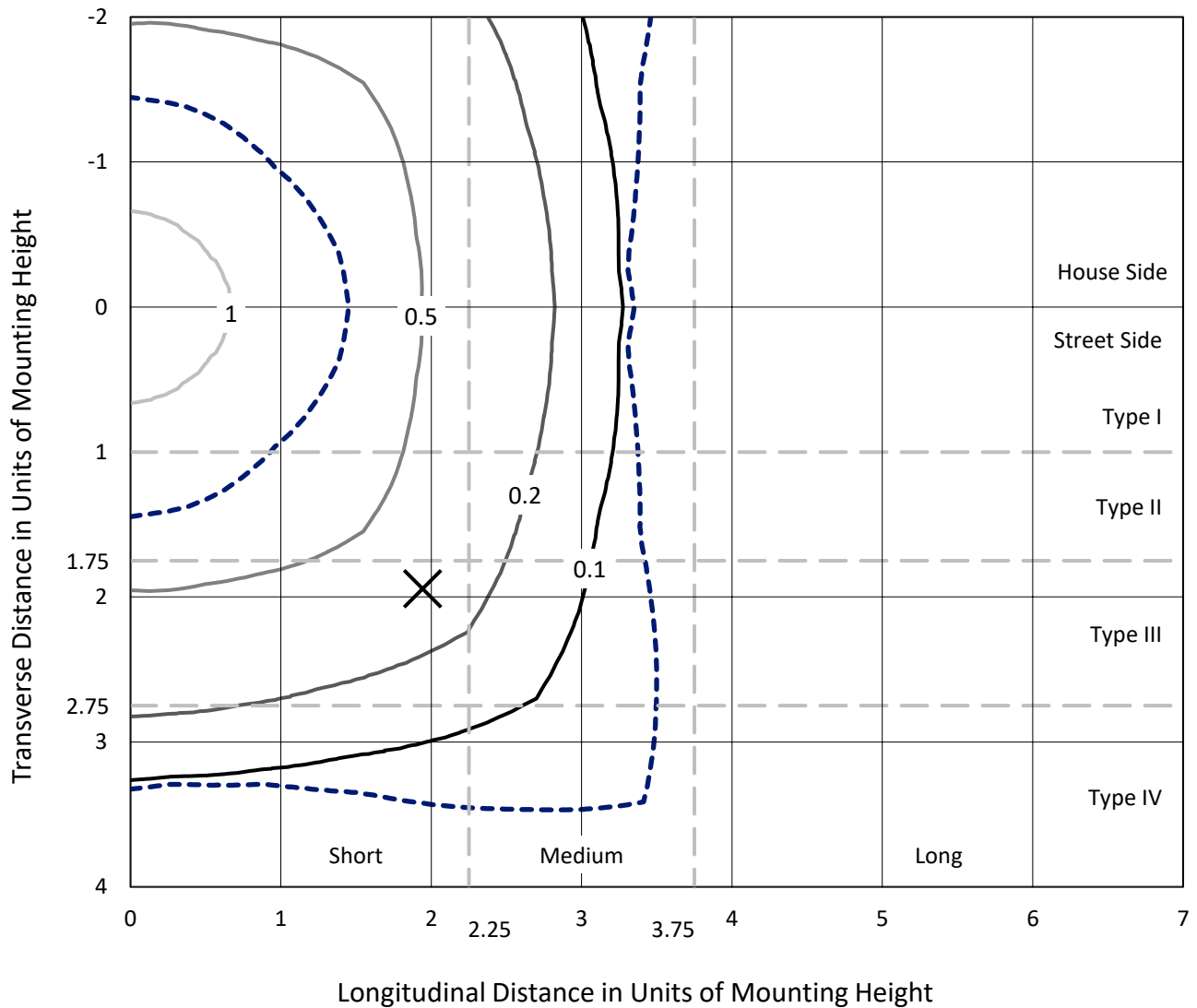
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

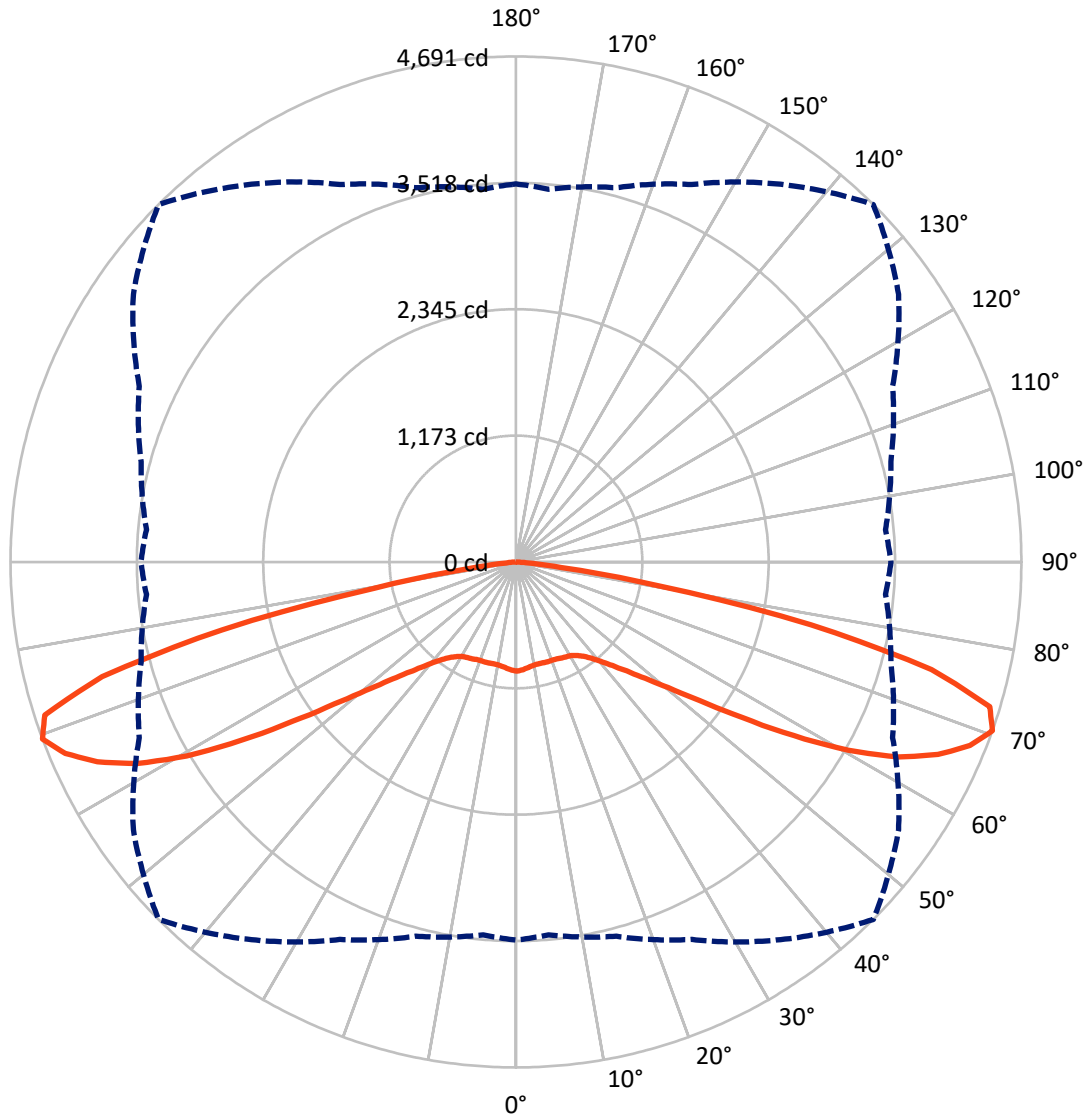
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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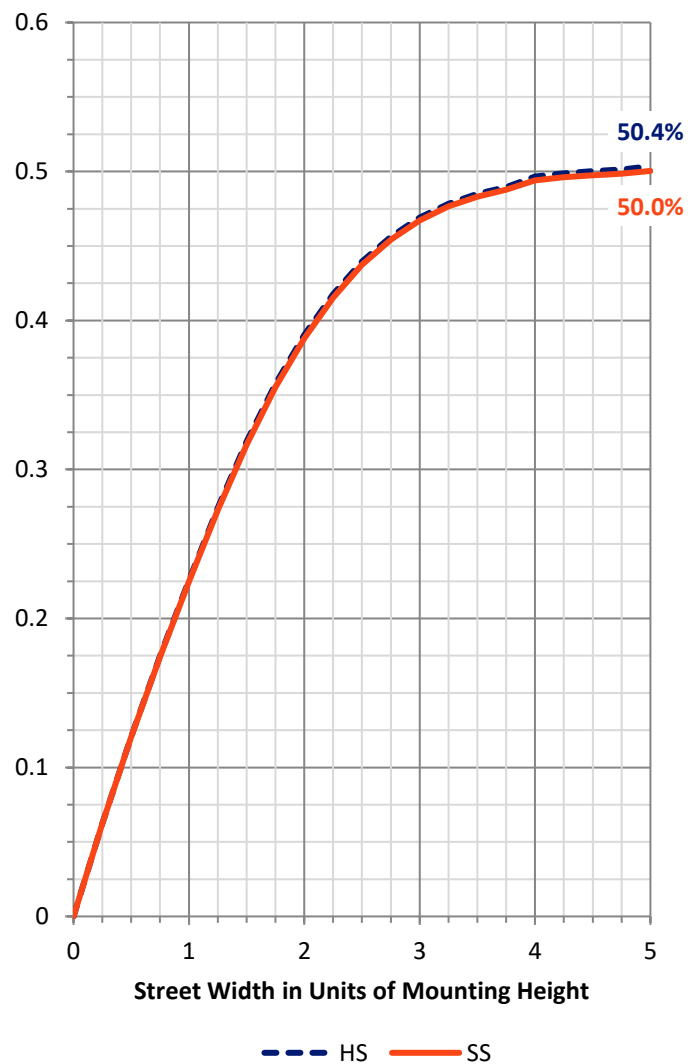
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5553.5	0.0	5553.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5553.5	0.0	5553.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11107.0	0.0	11107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	0.8
10°-20°	276.7	2.5
20°-30°	460.5	4.1
30°-40°	696.5	6.3
40°-50°	1157.4	10.4
50°-60°	2183.9	19.7
60°-70°	3687.6	33.2
70°-80°	2423.2	21.8
80°-90°	127.0	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°	11107.0	100.0
0°-180°	11107.0	100.0

Coefficient of Utilization



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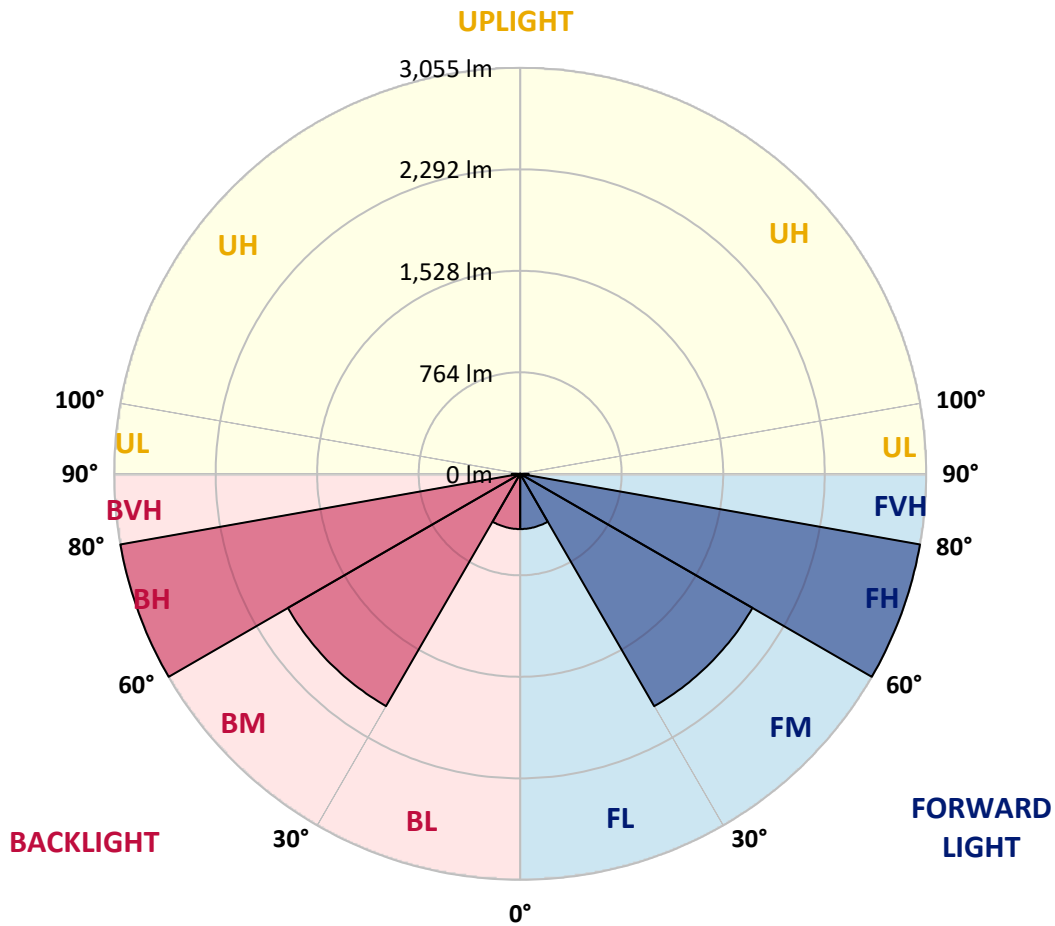
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.8	3.7			
FM (30°-60°)	2018.9	18.2			
FH (60°-80°)	3055.4	27.5			G2/5000
FVH (80°-90°)	63.5	0.6			G1/100
BL (0°-30°)	415.8	3.7	B1/500		
BM (30°-60°)	2018.9	18.2	B2/2500		
BH (60°-80°)	3055.4	27.5	B4/5000		G2/5000
BVH (80°-90°)	63.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1013.2	1013.2	1013.2	1013.2	1013.2	1013.2	1013.2	1013.2	1013.2	1013.2	1013.2
2.5°	1006.8	1009.7	1008.6	1006.3	1006.3	1004.5	1006.3	1007.4	1009.1	1010.3	1009.7
5°	993.6	995.9	995.3	993.6	994.1	992.4	993.6	995.3	996.4	997.0	997.0
7.5°	982.0	984.3	983.2	980.3	980.3	978.5	979.1	980.9	982.6	983.2	983.2
10°	979.1	981.4	978.0	973.3	971.6	969.3	969.9	971.6	975.1	976.8	976.8
12.5°	980.3	982.0	978.5	971.6	969.9	967.6	967.6	969.3	973.9	976.2	976.8
15°	983.7	985.5	980.3	972.8	971.0	969.3	968.7	971.0	976.2	980.3	980.9
17.5°	990.1	991.8	983.7	973.3	971.0	971.6	971.0	972.8	980.9	988.4	988.4
20°	995.9	997.0	986.0	973.3	971.0	971.6	971.0	974.5	984.9	995.3	995.9
22.5°	997.6	998.7	988.4	977.4	975.7	976.2	975.7	979.1	988.9	999.3	999.3
25°	998.2	999.9	991.8	983.2	986.0	987.2	986.0	986.6	994.1	1003.4	1002.8
27.5°	1006.8	1009.1	1001.6	994.1	995.9	995.3	997.0	998.7	1004.5	1013.8	1011.5
30°	1024.7	1026.5	1020.1	1012.6	1011.5	1007.4	1012.6	1018.4	1024.7	1032.8	1031.1
32.5°	1054.2	1057.6	1049.6	1041.5	1036.3	1034.0	1038.0	1047.8	1056.5	1065.1	1061.7
35°	1103.2	1105.6	1098.0	1083.0	1073.8	1073.8	1077.3	1090.0	1103.8	1114.8	1110.7
37.5°	1172.5	1175.4	1162.1	1144.2	1130.4	1130.4	1135.0	1148.3	1169.1	1184.6	1178.9
40°	1256.8	1260.8	1244.1	1225.6	1212.4	1210.0	1215.8	1230.8	1250.5	1270.1	1263.7
42.5°	1358.4	1363.0	1341.1	1324.9	1314.5	1314.5	1317.4	1331.3	1349.2	1373.4	1371.7
45°	1488.3	1496.4	1466.4	1450.2	1440.4	1442.7	1444.4	1456.6	1472.7	1500.4	1499.3
47.5°	1643.0	1651.1	1619.4	1602.6	1600.9	1611.9	1604.9	1613.6	1622.2	1654.0	1644.8
50°	1818.5	1832.4	1810.4	1809.3	1812.8	1833.0	1816.8	1821.4	1811.6	1831.8	1819.7
52.5°	2033.3	2053.5	2049.5	2056.4	2095.1	2136.6	2099.7	2083.5	2046.6	2052.9	2031.6
55°	2293.7	2324.3	2330.0	2371.6	2459.3	2544.2	2465.7	2400.5	2321.9	2307.5	2285.0
57.5°	2589.8	2614.1	2641.8	2726.6	2890.6	3041.3	2890.6	2746.3	2622.7	2593.3	2572.5
60°	2908.5	2938.5	2965.1	3090.3	3334.0	3545.8	3329.4	3100.2	2936.8	2897.0	2862.3
62.5°	3250.8	3289.5	3308.0	3447.1	3731.2	3984.0	3735.2	3457.5	3276.2	3233.5	3198.9
65°	3579.3	3611.1	3631.9	3780.2	4051.6	4305.0	4070.0	3796.4	3609.9	3553.9	3526.2
67.5°	3732.3	3749.6	3800.4	3968.4	4254.8	4544.0	4303.3	3986.3	3777.9	3679.8	3680.9
70°	3508.3	3473.1	3595.5	3864.5	4279.0	4690.7	4334.5	3856.4	3601.3	3441.9	3480.0
72.5°	2711.1	2650.4	2862.9	3323.0	4001.9	4597.1	4029.6	3349.0	2995.1	2671.8	2752.0
75°	1475.0	1406.3	1699.6	2281.5	3191.4	3984.6	3264.7	2346.8	1892.4	1464.1	1559.3
77.5°	416.2	390.3	627.0	1103.8	1919.6	2797.7	1993.5	1128.1	743.6	441.1	490.1
80°	127.6	123.5	167.4	332.5	815.2	1339.9	783.4	336.6	213.0	134.5	142.0
82.5°	75.6	69.3	83.1	121.2	207.8	420.9	202.1	126.4	101.6	68.1	73.9
85°	43.3	40.4	49.1	58.9	69.9	89.5	58.3	60.0	54.3	36.4	38.1
87.5°	17.9	16.2	19.1	18.5	16.2	20.8	15.6	18.5	21.9	14.4	13.3
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)