

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: P882125

Luminaire Tested: **NAV-SB1D-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8501 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

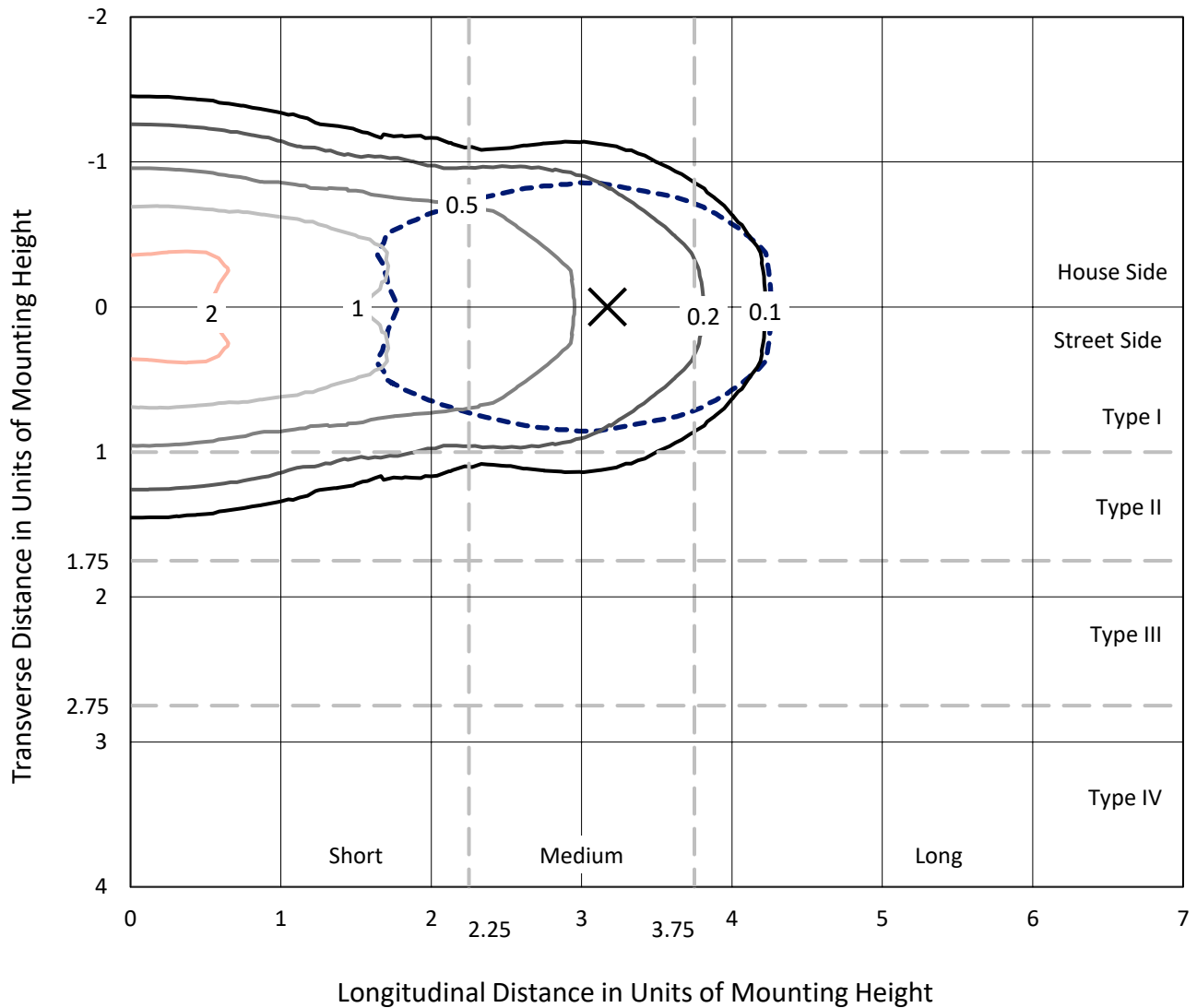
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

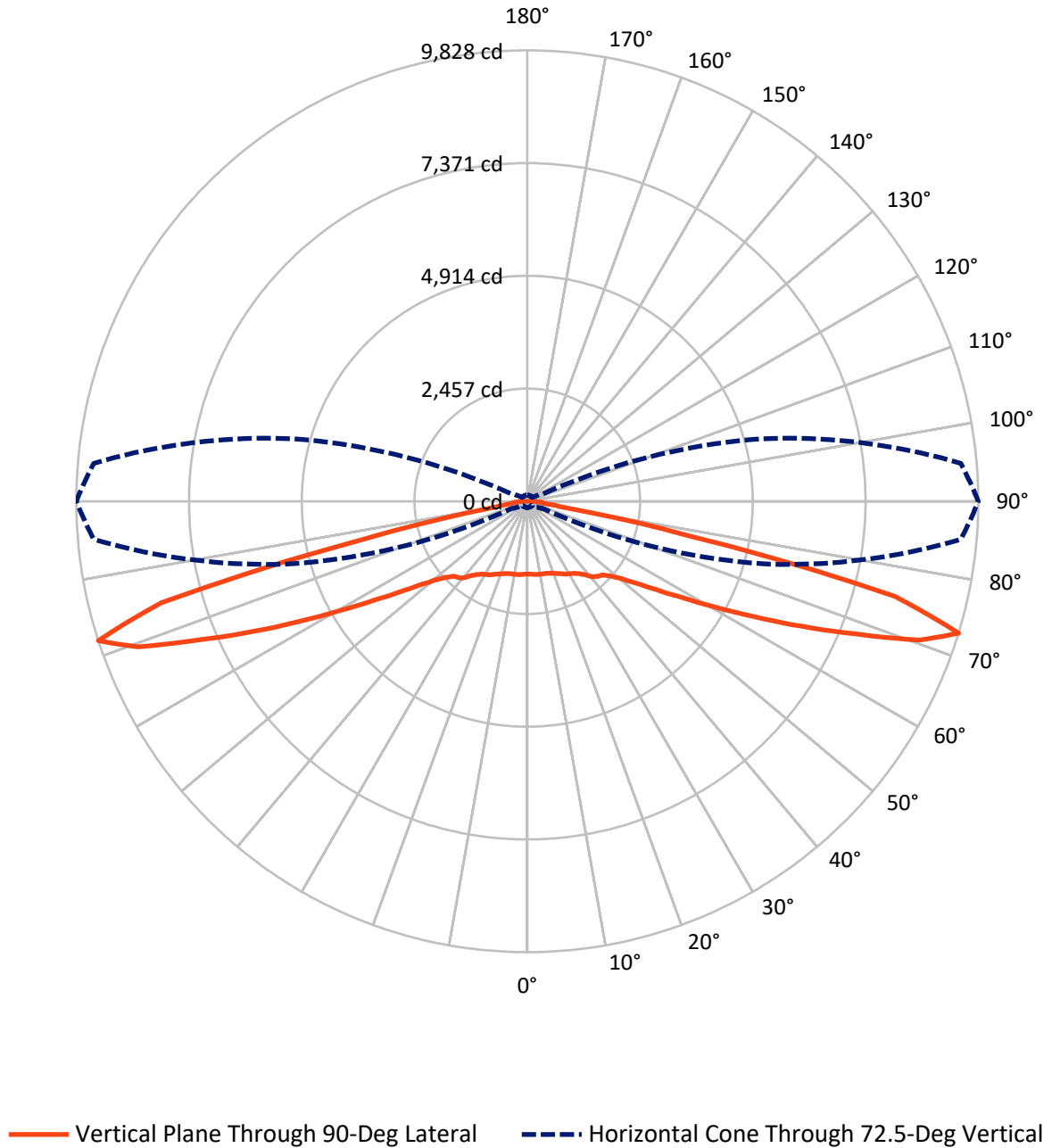
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4250.5	0.0	4250.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4250.5	0.0	4250.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8501.0	0.0	8501.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	1.8
10°-20°	470.9	5.5
20°-30°	785.3	9.2
30°-40°	1080.0	12.7
40°-50°	1318.9	15.5
50°-60°	1525.5	17.9
60°-70°	1818.9	21.4
70°-80°	1269.5	14.9
80°-90°	78.0	0.9
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°	8501.0	100.0
0°-180°	8501.0	100.0

Coefficient of Utilization



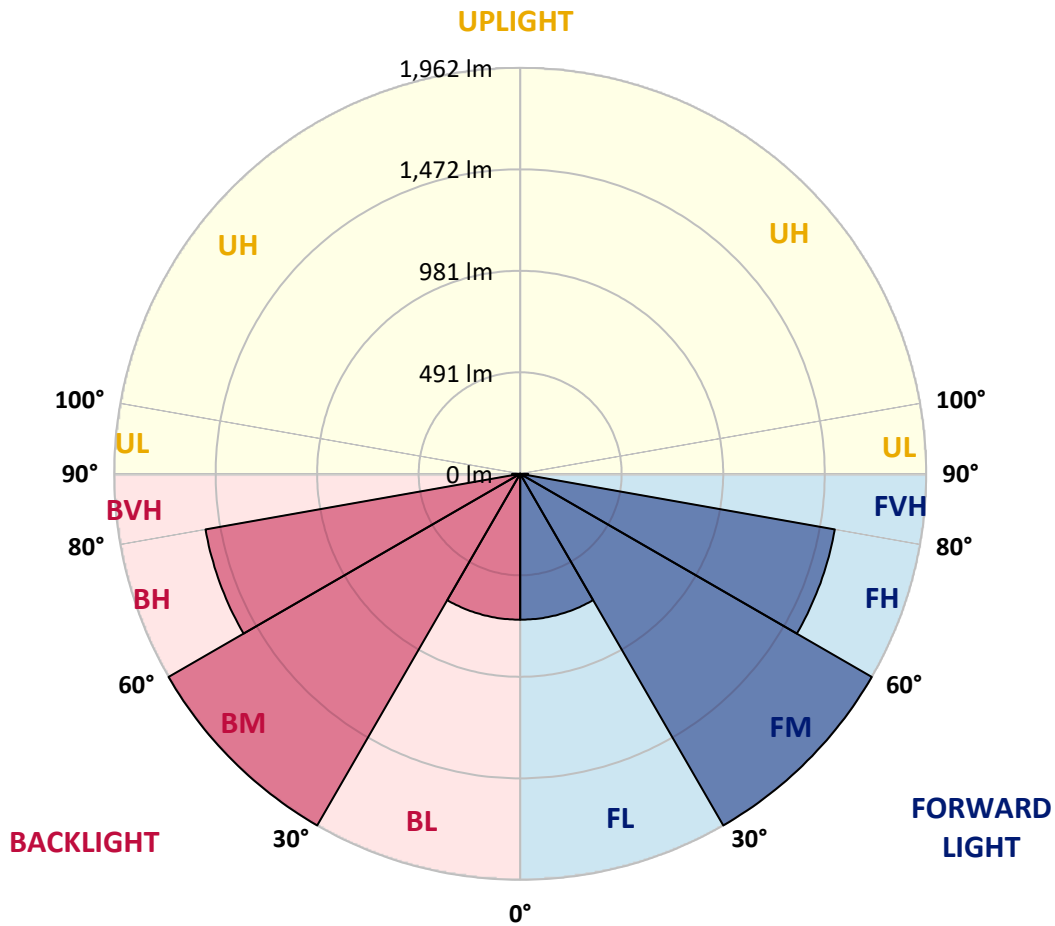
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	705.1	8.3			
FM (30°-60°)	1962.2	23.1			
FH (60°-80°)	1544.2	18.2			G1/1800
FVH (80°-90°)	39.0	0.5			G1/100
BL (0°-30°)	705.1	8.3	B2/1000		
BM (30°-60°)	1962.2	23.1	B2/2500		
BH (60°-80°)	1544.2	18.2	B3/2500		G3/2500
BVH (80°-90°)	39.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1589.9	1591.7	1591.7	1590.3	1593.5	1590.8	1590.8	1589.4	1590.8	1589.4	1589.4
5°	1598.0	1600.2	1601.2	1600.7	1604.8	1602.5	1602.5	1600.7	1601.2	1599.8	1599.8
7.5°	1613.4	1616.5	1618.3	1620.6	1626.5	1623.7	1621.9	1616.5	1614.3	1610.6	1610.6
10°	1618.3	1621.9	1627.8	1639.6	1653.1	1653.6	1648.1	1634.6	1624.2	1616.1	1614.7
12.5°	1603.0	1607.9	1620.1	1644.1	1674.3	1686.5	1678.0	1655.4	1635.0	1620.6	1618.3
15°	1583.5	1589.0	1607.5	1643.6	1688.3	1716.8	1715.9	1686.1	1653.6	1631.0	1627.4
17.5°	1553.3	1558.7	1585.3	1635.9	1699.2	1746.2	1758.8	1728.1	1682.5	1652.2	1647.2
20°	1498.6	1503.6	1540.6	1611.5	1702.8	1777.4	1810.3	1783.2	1726.3	1685.2	1677.5
22.5°	1427.7	1435.3	1478.7	1569.5	1694.2	1809.9	1869.1	1850.5	1777.4	1720.4	1710.0
25°	1351.8	1359.9	1410.5	1518.0	1672.1	1833.4	1938.6	1926.9	1835.2	1764.2	1749.8
27.5°	1286.3	1294.8	1350.0	1467.0	1637.7	1842.4	2007.3	2013.2	1905.2	1812.6	1797.2
30°	1234.7	1242.9	1301.6	1425.9	1593.5	1833.4	2067.4	2108.1	1976.6	1854.6	1832.5
32.5°	1178.3	1188.7	1250.6	1375.7	1541.1	1811.7	2119.8	2210.6	2059.3	1899.8	1871.8
35°	1106.9	1116.4	1181.4	1307.0	1472.4	1776.9	2163.6	2324.5	2177.6	1968.5	1937.3
37.5°	1020.1	1029.2	1093.8	1221.2	1404.2	1728.1	2197.1	2452.8	2318.6	2067.4	2025.8
40°	933.0	941.5	1002.1	1125.4	1322.4	1665.8	2208.8	2578.4	2480.3	2203.4	2159.1
42.5°	853.0	860.7	916.2	1031.0	1230.7	1586.2	2193.5	2687.7	2625.4	2298.3	2241.3
45°	779.3	786.1	835.4	942.4	1135.4	1489.6	2147.4	2805.2	2797.9	2366.0	2289.2
47.5°	695.3	702.1	753.1	856.6	1040.0	1376.2	2069.2	2920.8	3037.9	2519.6	2431.1
50°	592.8	598.6	651.0	757.7	941.1	1255.5	1960.8	3011.6	3340.6	2752.3	2641.2
52.5°	471.2	477.5	528.6	635.2	823.6	1125.9	1818.0	3070.8	3690.2	3092.1	2955.2
55°	350.6	355.1	399.4	495.2	678.1	978.1	1639.1	3087.5	4086.9	3556.5	3385.3
57.5°	254.4	257.1	285.5	356.9	514.1	793.3	1421.8	3044.2	4559.0	4152.0	3936.5
60°	206.0	206.9	215.5	247.1	357.4	584.6	1159.3	2895.1	5071.4	4919.6	4648.0
62.5°	187.0	187.0	189.3	197.9	241.7	385.8	841.7	2586.1	5620.7	5889.6	5525.9
65°	173.9	173.9	174.8	178.9	190.7	245.8	531.3	2082.8	6083.8	7025.8	6565.9
67.5°	162.2	162.6	162.2	163.5	170.3	181.6	308.1	1438.5	6333.2	8203.2	7706.7
70°	150.0	150.9	148.6	148.6	154.1	154.5	192.9	788.8	6126.3	9189.9	9059.3
72.5°	135.5	136.9	133.3	132.4	136.4	134.6	145.0	378.6	5259.8	9484.5	9827.8
75°	122.9	124.7	116.6	114.3	114.3	112.9	117.9	194.3	3413.7	7736.9	8275.5
77.5°	111.6	115.2	102.1	94.9	93.1	89.0	96.2	118.8	1493.2	3632.4	3557.0
80°	92.2	97.1	84.0	75.4	72.3	67.8	75.9	83.1	444.1	843.5	807.8
82.5°	68.7	70.9	59.6	53.8	51.1	47.9	56.9	57.8	144.6	298.6	337.5
85°	43.8	44.7	36.6	31.6	30.3	28.9	36.1	31.6	55.1	219.6	319.0
87.5°	15.4	17.6	14.0	12.7	13.6	11.3	16.7	9.5	15.4	155.0	192.0
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)