

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: P961404

Luminaire Tested: **NAV-SB2A-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9095.8 lumens
Efficiency: N/A
Efficacy: 158.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

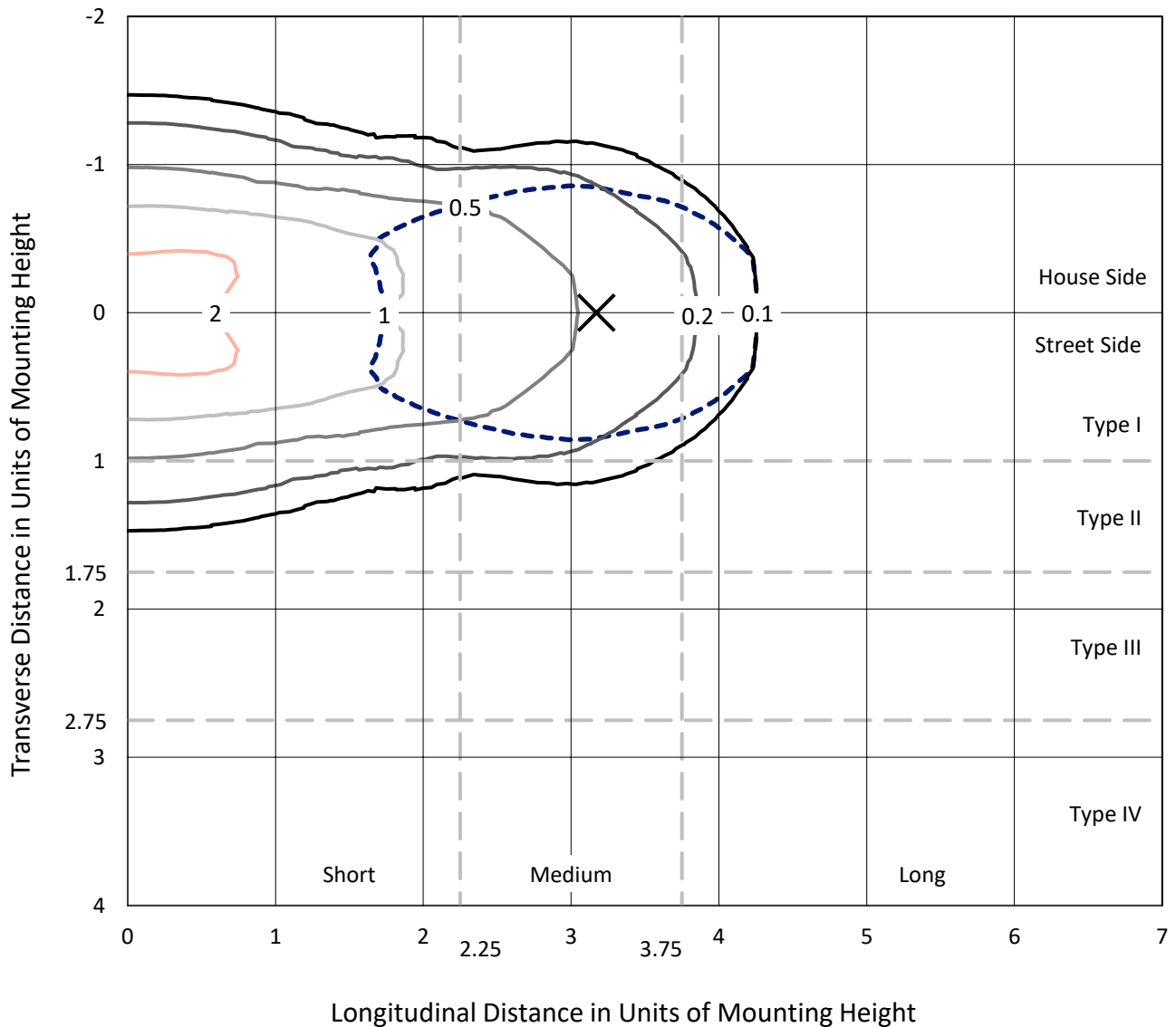
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

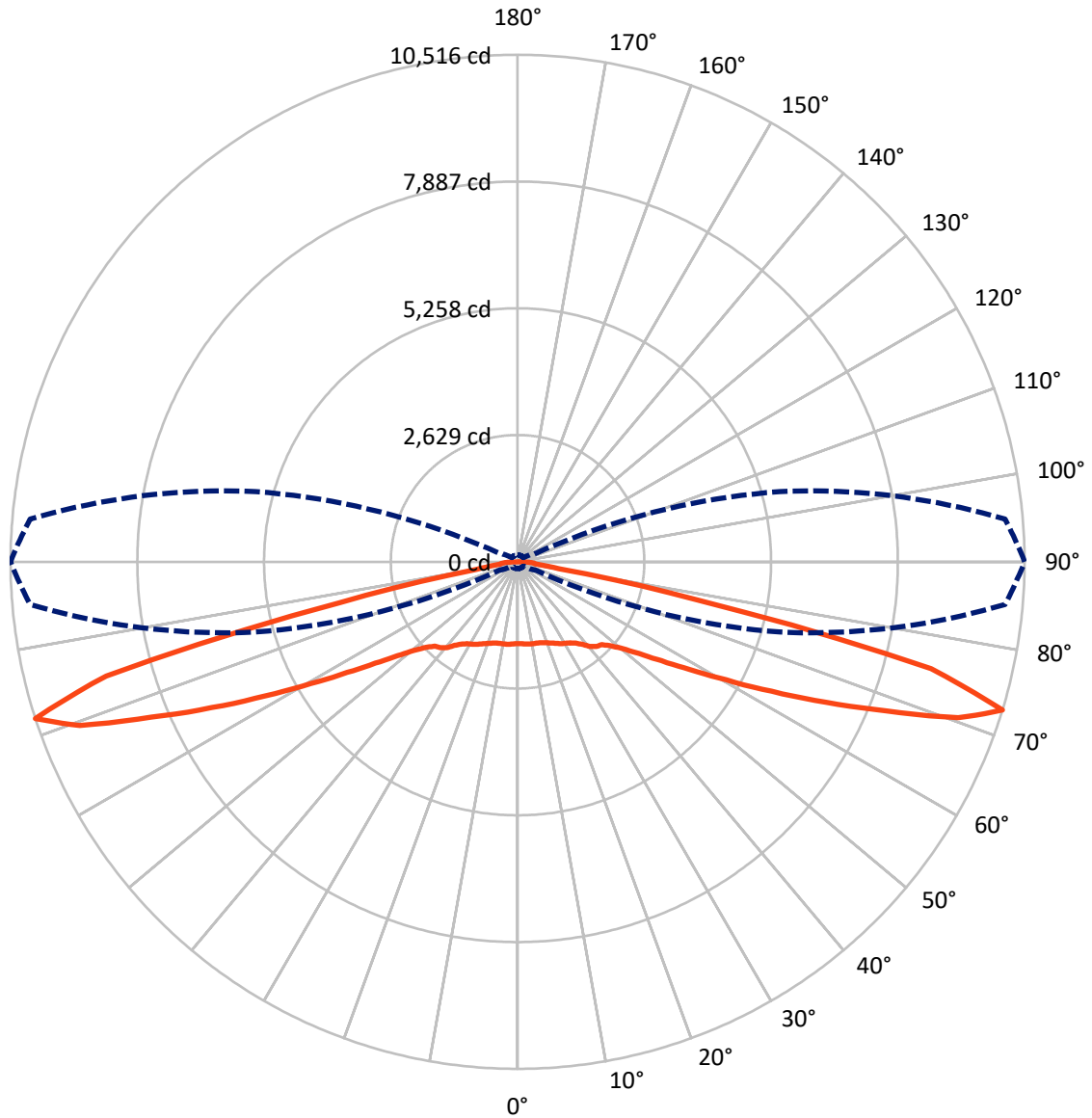
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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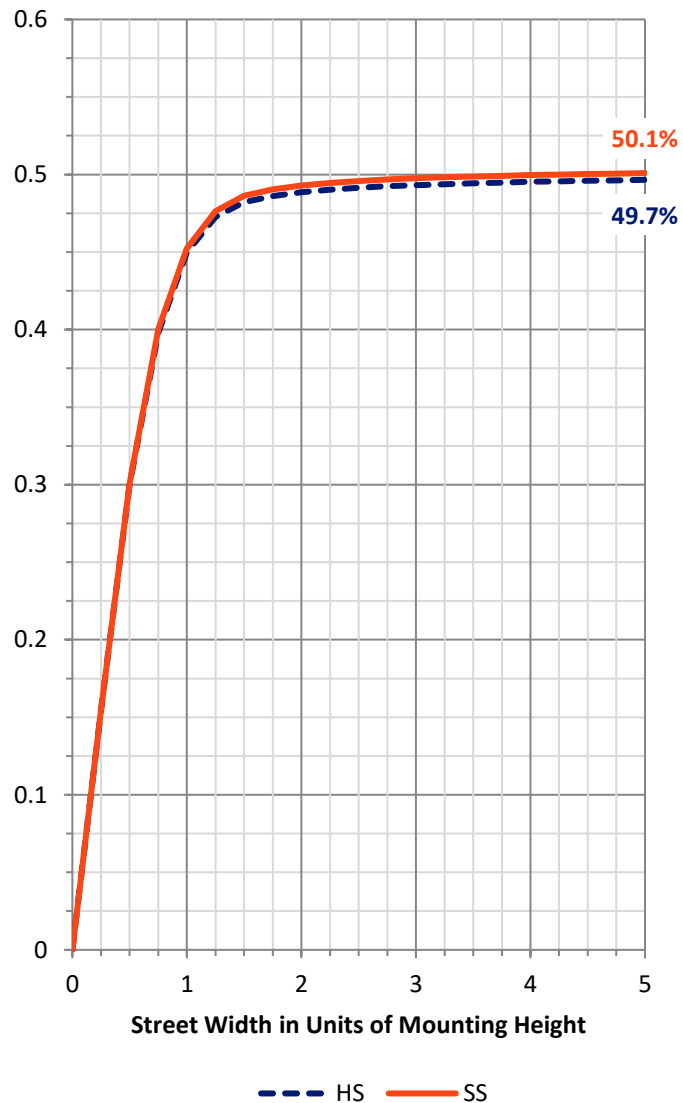
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4547.9	0.0	4547.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4547.9	0.0	4547.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	9095.8	0.0	9095.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	1.8
10°-20°	503.9	5.5
20°-30°	840.2	9.2
30°-40°	1155.5	12.7
40°-50°	1411.2	15.5
50°-60°	1632.2	17.9
60°-70°	1946.2	21.4
70°-80°	1358.3	14.9
80°-90°	83.4	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°	9095.8	100.0
0°-180°	9095.8	100.0

Coefficient of Utilization



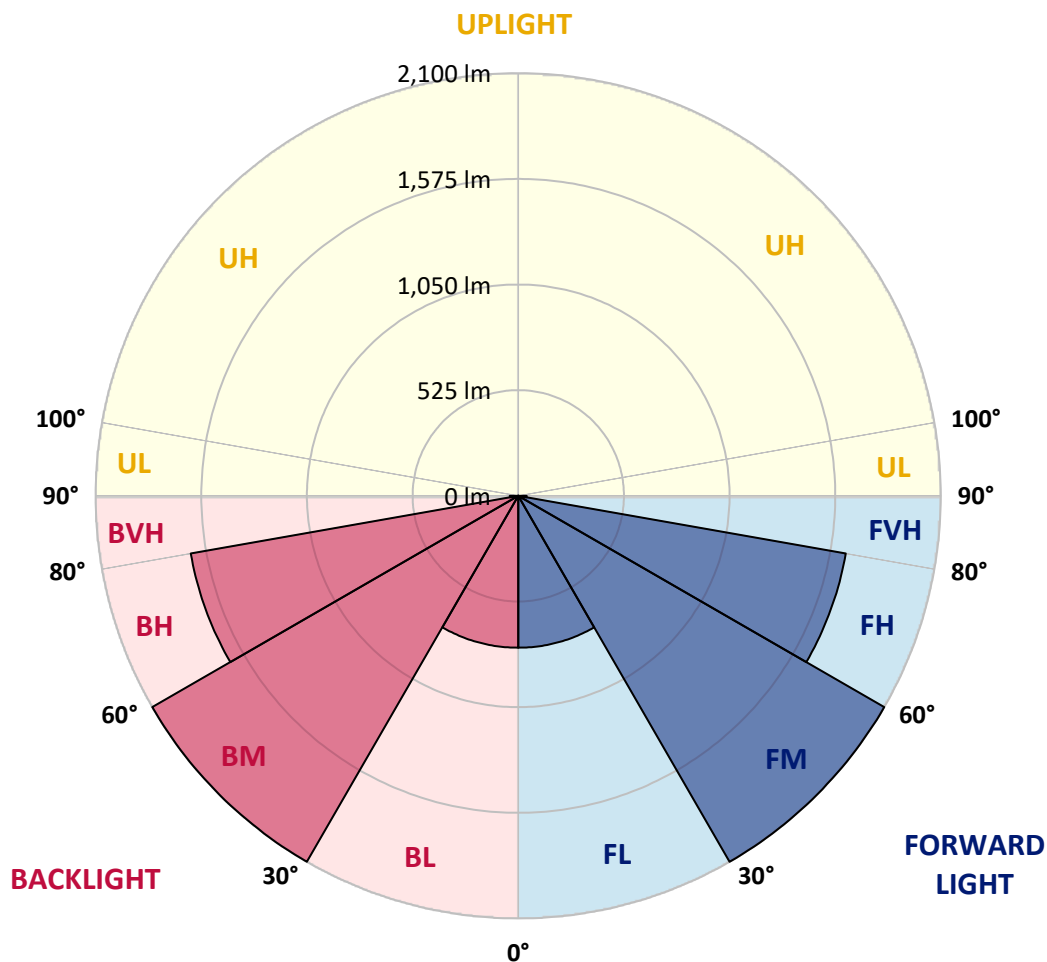
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	754.5	8.3			
FM (30°-60°)	2099.5	23.1			
FH (60°-80°)	1652.2	18.2			G1/1800
FVH (80°-90°)	41.7	0.5			G1/100
BL (0°-30°)	754.5	8.3	B2/1000		
BM (30°-60°)	2099.5	23.1	B2/2500		
BH (60°-80°)	1652.2	18.2	B3/2500		G3/2500
BVH (80°-90°)	41.7	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°	1699.7	1699.7	1699.7	1699.7	1699.7	1699.7	1699.7	1699.7	1699.7	1699.7	1699.7
2.5°	1701.1	1703.0	1703.0	1701.6	1705.0	1702.1	1702.1	1700.6	1702.1	1700.6	1700.6
5°	1709.8	1712.3	1713.2	1712.7	1717.1	1714.6	1714.6	1712.7	1713.2	1711.7	1711.7
7.5°	1726.2	1729.6	1731.5	1734.0	1740.2	1737.4	1735.4	1729.6	1727.2	1723.3	1723.3
10°	1731.5	1735.4	1741.7	1754.3	1768.7	1769.3	1763.5	1749.0	1737.9	1729.2	1727.7
12.5°	1715.1	1720.5	1733.5	1759.1	1791.5	1804.5	1795.4	1771.2	1749.5	1734.0	1731.5
15°	1694.3	1700.2	1720.0	1758.6	1806.5	1836.9	1836.0	1804.1	1769.3	1745.1	1741.3
17.5°	1661.9	1667.8	1696.3	1750.4	1818.0	1868.4	1881.9	1849.0	1800.2	1767.8	1762.5
20°	1603.4	1608.7	1648.4	1724.4	1821.9	1901.7	1937.0	1908.0	1847.0	1803.1	1794.9
22.5°	1527.6	1535.8	1582.2	1679.4	1812.8	1936.5	1999.9	1980.0	1901.7	1840.8	1829.7
25°	1446.4	1455.1	1509.2	1624.2	1789.0	1961.6	2074.3	2061.7	1963.6	1887.7	1872.3
27.5°	1376.3	1385.5	1444.4	1569.6	1752.3	1971.3	2147.8	2154.0	2038.5	1939.4	1923.0
30°	1321.1	1329.8	1392.7	1525.6	1705.0	1961.6	2212.1	2255.6	2114.9	1984.4	1960.7
32.5°	1260.8	1271.8	1338.0	1472.0	1648.9	1938.5	2268.1	2365.3	2203.3	2032.7	2002.7
35°	1184.4	1194.5	1264.1	1398.5	1575.4	1901.3	2315.1	2487.2	2330.0	2106.2	2072.9
37.5°	1091.5	1101.2	1170.3	1306.7	1502.4	1849.0	2350.8	2624.4	2480.8	2212.1	2167.6
40°	998.2	1007.4	1072.1	1204.2	1414.9	1782.3	2363.3	2758.8	2653.9	2357.6	2310.2
42.5°	912.7	920.9	980.3	1103.1	1316.8	1697.2	2346.9	2875.7	2809.1	2459.1	2398.2
45°	833.8	841.1	893.8	1008.4	1214.8	1593.8	2297.6	3001.5	2993.7	2531.6	2449.4
47.5°	743.9	751.2	805.9	916.6	1112.8	1472.4	2214.0	3125.2	3250.4	2696.0	2601.2
50°	634.3	640.5	696.6	810.7	1007.0	1343.4	2098.0	3222.4	3574.3	2944.9	2826.0
52.5°	504.2	511.0	565.6	679.7	881.3	1204.7	1945.2	3285.7	3948.5	3308.4	3161.9
55°	375.2	380.0	427.3	529.8	725.6	1046.5	1753.8	3303.6	4372.9	3805.4	3622.1
57.5°	272.1	275.0	305.6	381.9	550.1	848.9	1521.3	3257.1	4878.1	4442.5	4211.9
60°	220.5	221.4	230.6	264.4	382.3	625.6	1240.5	3097.7	5426.2	5263.8	4973.3
62.5°	200.1	200.1	202.5	211.8	258.6	412.9	900.6	2767.0	6014.1	6301.7	5912.5
65°	186.1	186.1	187.1	191.5	204.0	263.0	568.5	2228.5	6509.6	7517.5	7025.4
67.5°	173.5	174.0	173.5	175.0	182.2	194.3	329.6	1539.1	6776.4	8777.2	8245.9
70°	160.5	161.4	159.1	159.1	164.8	165.3	206.4	844.0	6555.0	9832.9	9693.2
72.5°	145.0	146.5	142.6	141.7	146.0	144.0	155.2	405.1	5627.8	10148.1	10515.6
75°	131.5	133.5	124.7	122.3	122.3	120.8	126.2	207.9	3652.6	8278.3	8854.6
77.5°	119.4	123.3	109.3	101.5	99.6	95.2	103.0	127.1	1597.7	3886.6	3805.8
80°	98.6	103.9	89.9	80.8	77.4	72.5	81.2	89.0	475.2	902.5	864.3
82.5°	73.5	75.8	63.9	57.5	54.6	51.2	60.9	61.9	154.7	319.5	361.1
85°	46.8	47.9	39.2	33.8	32.4	31.0	38.6	33.8	58.9	234.9	341.3
87.5°	16.4	18.9	15.0	13.5	14.5	12.1	17.8	10.1	16.4	165.8	205.4
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)