

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: P967621

Luminaire Tested: **NAV-SB5A-722-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967621  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5A-722-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19407.4 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

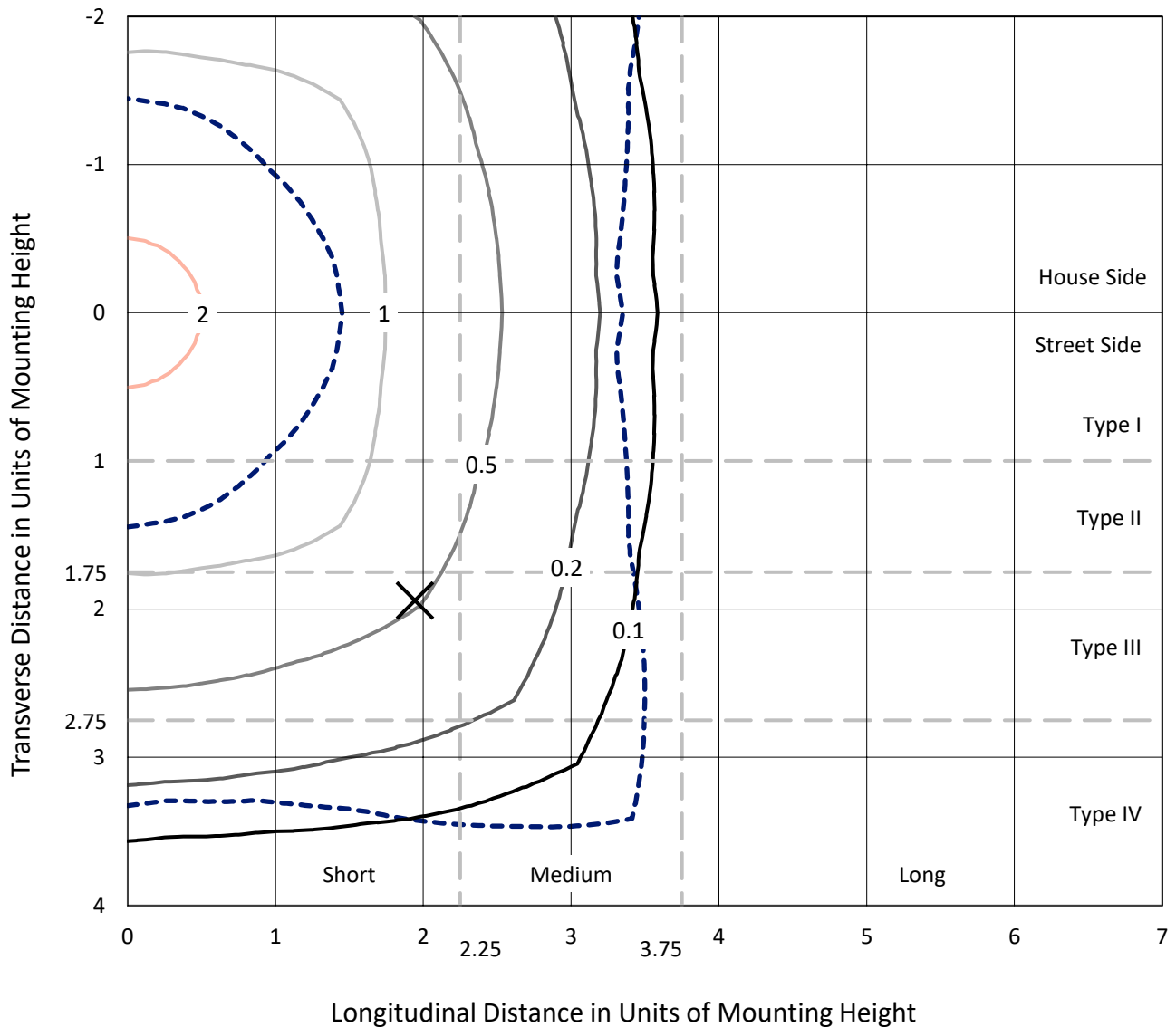
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

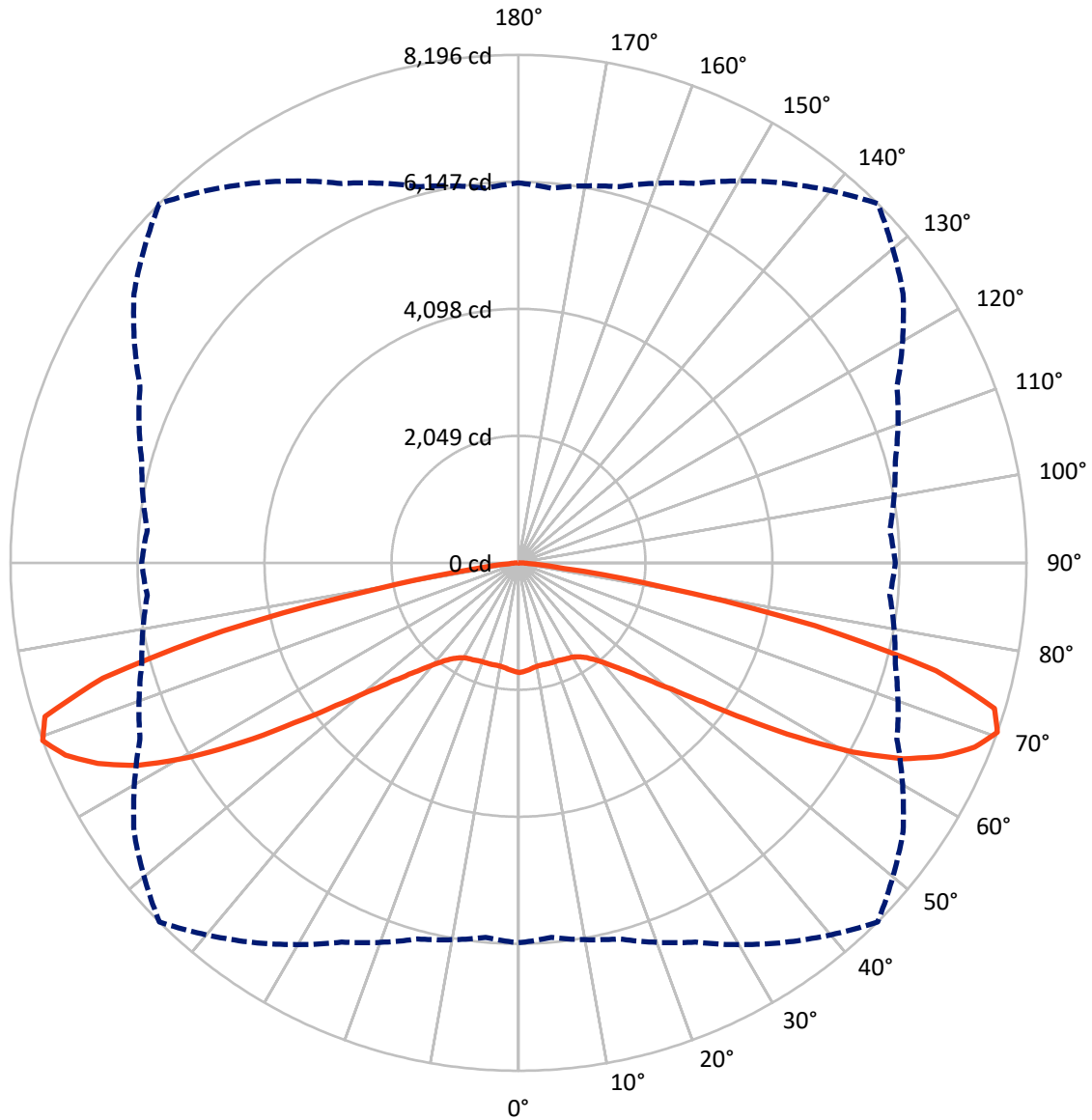
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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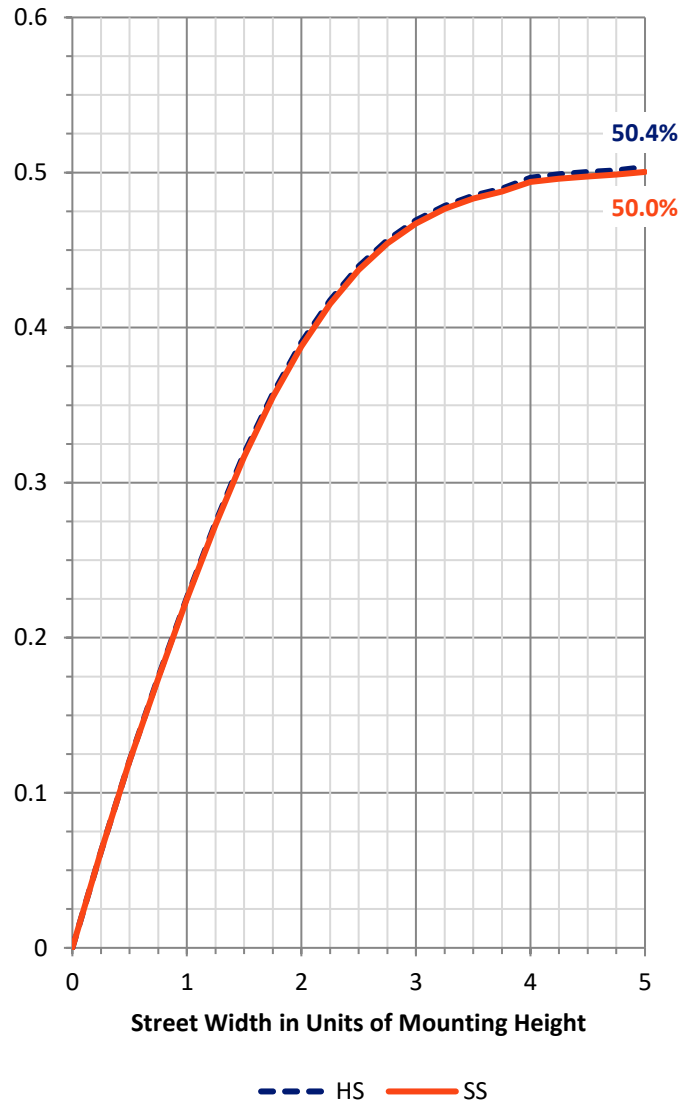
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9703.7	0.0	9703.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9703.7	0.0	9703.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19407.4	0.0	19407.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.7	0.8
10°-20°	483.6	2.5
20°-30°	804.7	4.1
30°-40°	1217.0	6.3
40°-50°	2022.3	10.4
50°-60°	3816.0	19.7
60°-70°	6443.4	33.2
70°-80°	4234.0	21.8
80°-90°	221.8	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°	19407.4	100.0
0°-180°	19407.4	100.0

**Coefficient of Utilization**



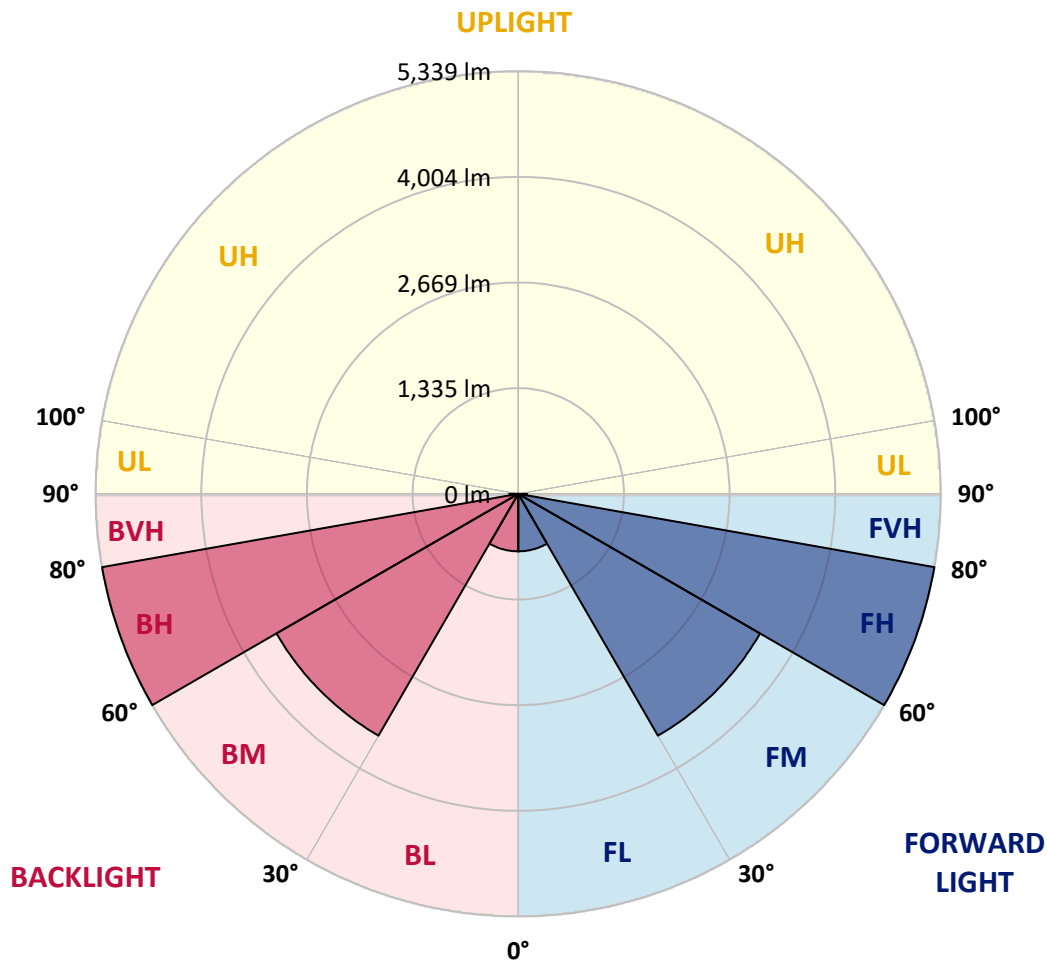
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.5	3.7			
FM (30°-60°)	3527.6	18.2			
FH (60°-80°)	5338.7	27.5			G3/7500
FVH (80°-90°)	110.9	0.6			G2/225
BL (0°-30°)	726.5	3.7	B2/1000		
BM (30°-60°)	3527.6	18.2	B3/5000		
BH (60°-80°)	5338.7	27.5	B5		G3/7500
BVH (80°-90°)	110.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1770.4	1770.4	1770.4	1770.4	1770.4	1770.4	1770.4	1770.4	1770.4	1770.4	1770.4
2.5°	1759.2	1764.3	1762.3	1758.3	1758.3	1755.2	1758.3	1760.2	1763.3	1765.3	1764.3
5°	1736.0	1740.0	1739.1	1736.0	1737.1	1734.0	1736.0	1739.1	1741.1	1742.1	1742.1
7.5°	1715.8	1720.0	1717.9	1712.9	1712.9	1709.8	1710.8	1713.9	1716.9	1717.9	1717.9
10°	1710.8	1714.8	1708.8	1700.8	1697.7	1693.7	1694.7	1697.7	1703.8	1706.8	1706.8
12.5°	1712.9	1715.8	1709.8	1697.7	1694.7	1690.6	1690.6	1693.7	1701.7	1705.8	1706.8
15°	1718.9	1721.9	1712.9	1699.8	1696.7	1693.7	1692.7	1696.7	1705.8	1712.9	1713.9
17.5°	1730.0	1733.0	1718.9	1700.8	1696.7	1697.7	1696.7	1699.8	1713.9	1726.9	1726.9
20°	1740.0	1742.1	1722.9	1700.8	1696.7	1697.7	1696.7	1702.7	1720.9	1739.1	1740.0
22.5°	1743.1	1745.2	1726.9	1707.8	1704.8	1705.8	1704.8	1710.8	1727.9	1746.1	1746.1
25°	1744.1	1747.1	1733.0	1717.9	1722.9	1725.0	1722.9	1723.9	1737.1	1753.2	1752.1
27.5°	1759.2	1763.3	1750.2	1737.1	1740.0	1739.1	1742.1	1745.2	1755.2	1771.3	1767.3
30°	1790.5	1793.5	1782.5	1769.4	1767.3	1760.2	1769.4	1779.4	1790.5	1804.6	1801.6
32.5°	1841.9	1848.0	1833.9	1819.8	1810.7	1806.7	1813.7	1830.9	1846.0	1861.1	1855.0
35°	1927.7	1931.7	1918.6	1892.4	1876.3	1876.3	1882.3	1904.6	1928.7	1947.9	1940.8
37.5°	2048.8	2053.8	2030.6	1999.4	1975.1	1975.1	1983.2	2006.4	2042.7	2070.0	2059.8
40°	2196.1	2203.1	2173.8	2141.5	2118.4	2114.4	2124.4	2150.7	2184.9	2219.2	2208.2
42.5°	2373.6	2381.6	2343.4	2315.1	2296.9	2296.9	2301.9	2326.1	2357.4	2399.8	2396.8
45°	2600.5	2614.7	2562.2	2534.0	2516.8	2520.9	2523.9	2545.1	2573.3	2621.7	2619.7
47.5°	2870.9	2885.0	2829.5	2800.3	2797.2	2816.4	2804.3	2819.5	2834.5	2890.1	2873.9
50°	3177.5	3201.8	3163.5	3161.4	3167.5	3202.7	3174.5	3182.6	3165.4	3200.8	3179.5
52.5°	3552.8	3588.1	3581.0	3593.1	3660.7	3733.4	3668.8	3640.6	3576.0	3587.1	3549.8
55°	4007.7	4061.2	4071.3	4143.9	4297.2	4445.5	4308.4	4194.3	4057.2	4031.9	3992.6
57.5°	4525.2	4567.6	4616.0	4764.3	5050.8	5314.0	5050.8	4798.5	4582.7	4531.2	4494.9
60°	5082.1	5134.5	5180.9	5399.8	5825.5	6195.7	5817.4	5416.9	5131.5	5061.9	5001.4
62.5°	5680.2	5747.8	5780.1	6023.2	6519.5	6961.3	6526.6	6041.3	5724.6	5650.0	5589.4
65°	6254.2	6309.7	6346.0	6605.2	7079.4	7522.2	7111.7	6633.5	6307.6	6209.9	6161.4
67.5°	6521.6	6551.8	6640.6	6934.1	7434.4	7939.8	7519.2	6965.4	6601.2	6429.7	6431.8
70°	6130.1	6068.6	6282.4	6752.5	7476.8	8196.0	7573.6	6738.4	6292.6	6014.1	6080.7
72.5°	4737.0	4631.2	5002.3	5806.3	6992.6	8032.6	7041.0	5851.7	5233.3	4668.5	4808.7
75°	2577.4	2457.3	2969.7	3986.5	5576.3	6962.3	5704.4	4100.5	3306.6	2558.2	2724.7
77.5°	727.3	681.9	1095.5	1928.7	3354.1	4888.3	3483.2	1971.1	1299.3	770.7	856.4
80°	222.9	215.9	292.5	581.1	1424.3	2341.3	1368.9	588.1	372.2	235.0	248.2
82.5°	132.1	121.1	145.2	211.9	363.2	735.3	353.0	220.9	177.5	119.0	129.1
85°	75.6	70.6	85.8	102.9	122.1	156.3	101.9	105.0	94.8	63.6	66.6
87.5°	31.3	28.3	33.3	32.3	28.3	36.3	27.3	32.3	38.3	25.2	23.2
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)