

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: P966040

Luminaire Tested: **NAV-SB4B-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966040
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-SB4B-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19329.5 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

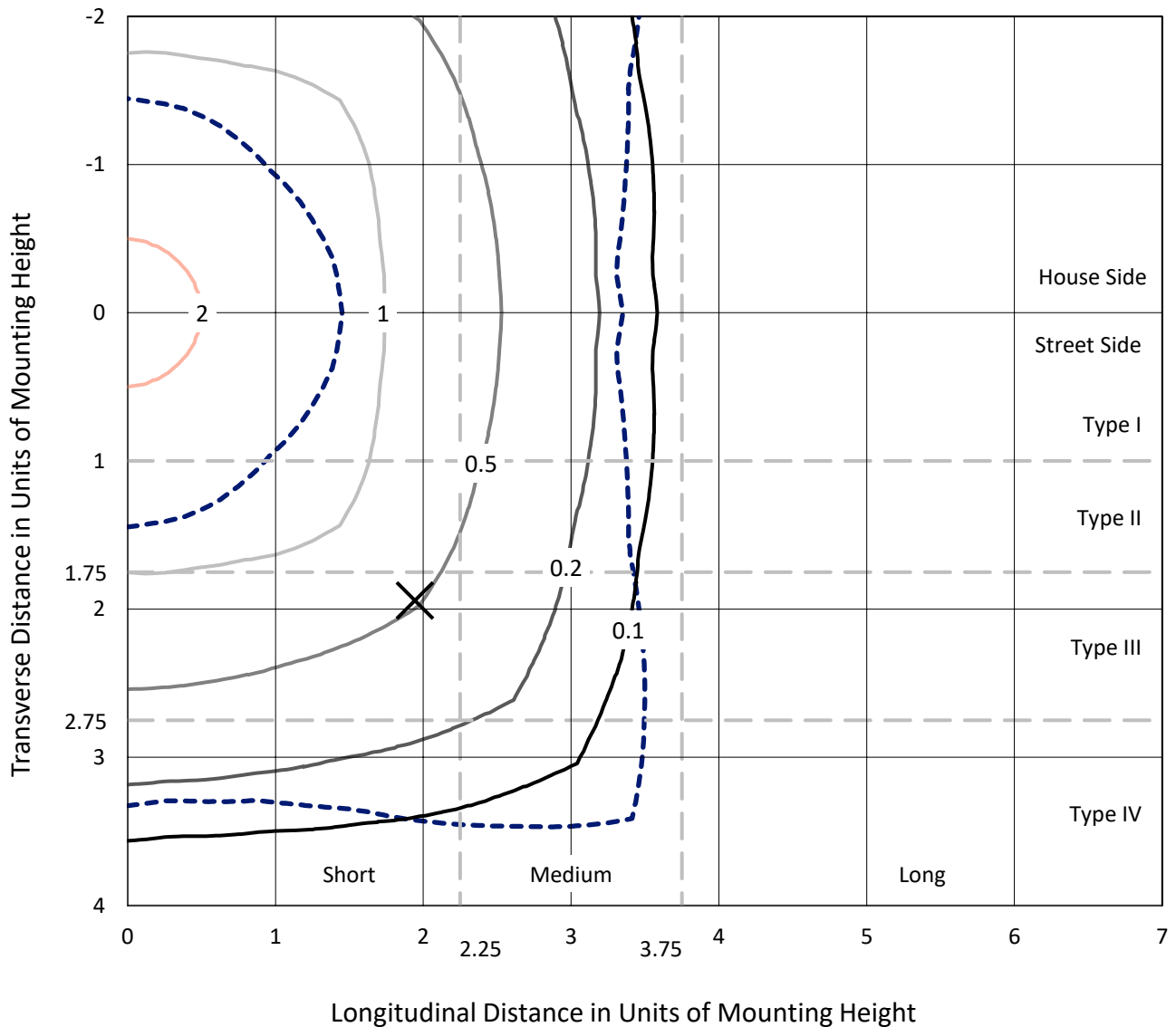
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

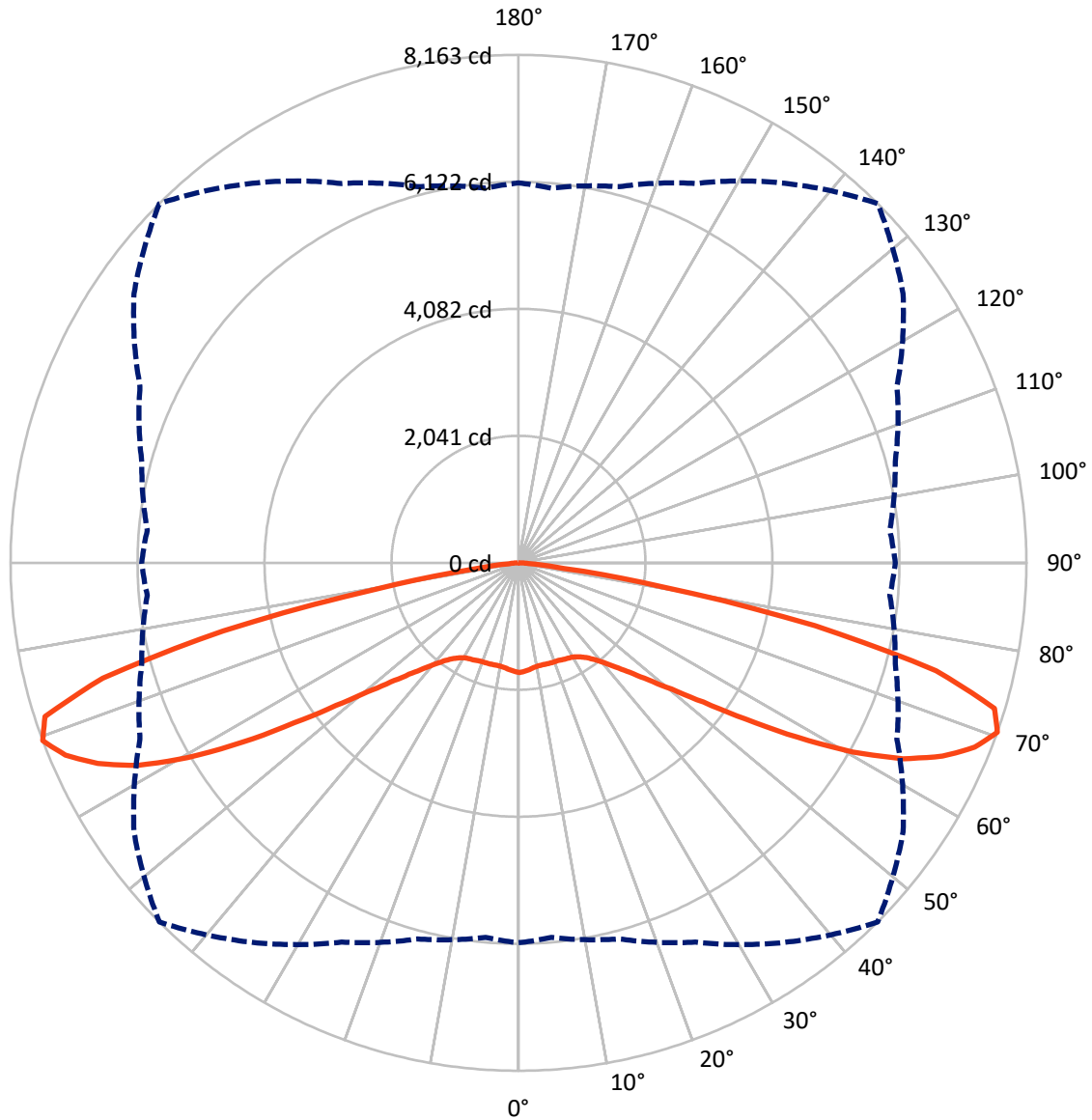
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	9664.7	0.0	9664.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9664.7	0.0	9664.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	19329.5	0.0	19329.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	0.8
10°-20°	481.6	2.5
20°-30°	801.5	4.1
30°-40°	1212.1	6.3
40°-50°	2014.2	10.4
50°-60°	3800.6	19.7
60°-70°	6417.6	33.2
70°-80°	4217.0	21.8
80°-90°	220.9	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°	19329.5	100.0
0°-180°	19329.5	100.0

Coefficient of Utilization



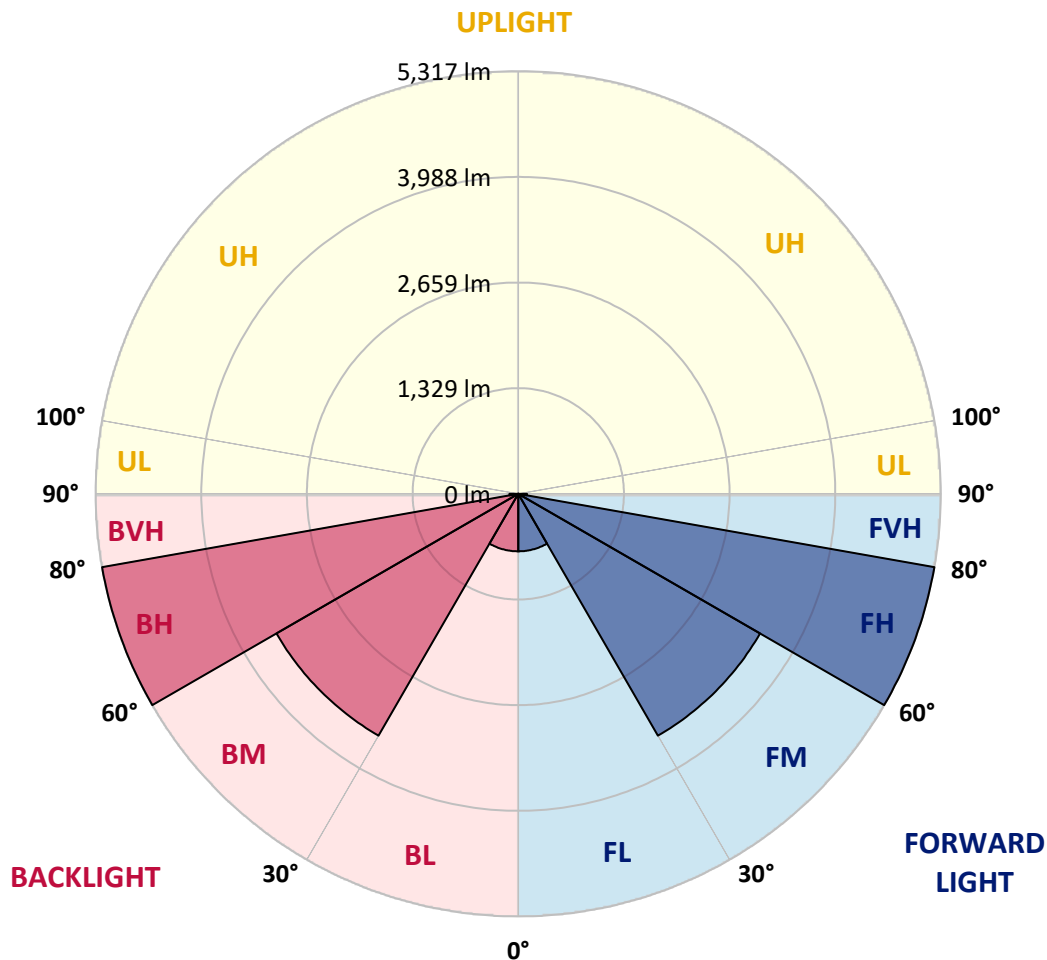
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.6	3.7			
FM (30°-60°)	3513.4	18.2			
FH (60°-80°)	5317.3	27.5			G3/7500
FVH (80°-90°)	110.5	0.6			G2/225
BL (0°-30°)	723.6	3.7	B2/1000		
BM (30°-60°)	3513.4	18.2	B3/5000		
BH (60°-80°)	5317.3	27.5	B5		G3/7500
BVH (80°-90°)	110.5	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°	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2	1763.2
2.5°	1752.1	1757.2	1755.2	1751.2	1751.2	1748.1	1751.2	1753.2	1756.2	1758.2	1757.2
5°	1729.1	1733.1	1732.0	1729.1	1730.1	1727.0	1729.1	1732.0	1734.1	1735.1	1735.1
7.5°	1709.0	1713.0	1711.0	1706.0	1706.0	1702.9	1704.0	1706.9	1710.0	1711.0	1711.0
10°	1704.0	1708.0	1701.9	1693.9	1690.9	1686.8	1687.9	1690.9	1696.9	1700.0	1700.0
12.5°	1706.0	1709.0	1702.9	1690.9	1687.9	1683.9	1683.9	1686.8	1694.9	1698.9	1700.0
15°	1712.0	1715.0	1706.0	1692.9	1689.9	1686.8	1685.9	1689.9	1698.9	1706.0	1706.9
17.5°	1723.0	1726.1	1712.0	1693.9	1689.9	1690.9	1689.9	1692.9	1706.9	1720.1	1720.1
20°	1733.1	1735.1	1716.1	1693.9	1689.9	1690.9	1689.9	1696.0	1714.0	1732.0	1733.1
22.5°	1736.1	1738.1	1720.1	1701.0	1697.9	1698.9	1697.9	1704.0	1721.1	1739.1	1739.1
25°	1737.1	1740.1	1726.1	1711.0	1716.1	1718.0	1716.1	1717.0	1730.1	1746.2	1745.2
27.5°	1752.1	1756.2	1743.1	1730.1	1733.1	1732.0	1735.1	1738.1	1748.1	1764.2	1760.2
30°	1783.3	1786.4	1775.3	1762.2	1760.2	1753.2	1762.2	1772.3	1783.3	1797.4	1794.4
32.5°	1834.5	1840.6	1826.6	1812.5	1803.4	1799.4	1806.5	1823.5	1838.5	1853.6	1847.7
35°	1919.9	1924.0	1910.9	1884.8	1868.7	1868.7	1874.7	1896.9	1921.0	1940.0	1933.0
37.5°	2040.6	2045.6	2022.4	1991.3	1967.2	1967.2	1975.2	1998.3	2034.5	2061.6	2051.5
40°	2187.2	2194.2	2165.1	2132.9	2109.9	2105.9	2115.9	2142.0	2176.2	2210.3	2199.2
42.5°	2364.1	2372.1	2333.9	2305.7	2287.7	2287.7	2292.7	2316.8	2348.0	2390.2	2387.1
45°	2590.1	2604.1	2551.9	2523.8	2506.7	2510.7	2513.7	2534.8	2563.0	2611.2	2609.1
47.5°	2859.3	2873.4	2818.1	2789.0	2786.1	2805.1	2793.0	2808.1	2823.2	2878.4	2862.4
50°	3164.8	3188.9	3150.7	3148.7	3154.7	3189.9	3161.8	3169.8	3152.7	3187.9	3166.8
52.5°	3538.5	3573.7	3566.7	3578.7	3646.0	3718.4	3654.0	3625.9	3561.7	3572.6	3535.5
55°	3991.7	4044.9	4054.9	4127.3	4280.0	4427.7	4291.1	4177.5	4040.9	4015.7	3976.6
57.5°	4507.0	4549.3	4597.4	4745.1	5030.5	5292.7	5030.5	4779.4	4564.3	4513.1	4476.9
60°	5061.7	5113.9	5160.1	5378.1	5802.1	6170.8	5794.0	5395.2	5110.9	5041.6	4981.3
62.5°	5657.4	5724.7	5756.9	5999.0	6493.4	6933.4	6500.3	6017.1	5701.7	5627.2	5567.0
65°	6229.1	6284.4	6320.6	6578.8	7051.0	7492.0	7083.1	6606.8	6282.3	6184.8	6136.7
67.5°	6495.3	6525.5	6613.9	6906.2	7404.6	7908.0	7489.0	6937.4	6574.7	6403.9	6405.9
70°	6105.5	6044.2	6257.2	6725.4	7446.8	8163.1	7543.2	6711.4	6267.3	5990.0	6056.3
72.5°	4718.1	4612.5	4982.3	5783.0	6964.6	8000.3	7012.7	5828.3	5212.3	4649.7	4789.4
75°	2567.0	2447.4	2957.8	3970.5	5554.0	6934.4	5681.6	4084.1	3293.4	2547.9	2713.7
77.5°	724.4	679.2	1091.1	1921.0	3340.6	4868.8	3469.2	1963.2	1294.1	767.6	853.0
80°	222.0	215.0	291.4	578.7	1418.6	2331.9	1363.4	585.7	370.7	234.1	247.1
82.5°	131.6	120.5	144.6	210.9	361.7	732.5	351.7	220.1	176.8	118.6	128.6
85°	75.3	70.3	85.4	102.5	121.6	155.7	101.5	104.4	94.4	63.3	66.3
87.5°	31.2	28.1	33.1	32.2	28.1	36.2	27.2	32.2	38.1	25.1	23.1
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)