

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: P965511

Luminaire Tested: **NAV-SB4A-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15941.8 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

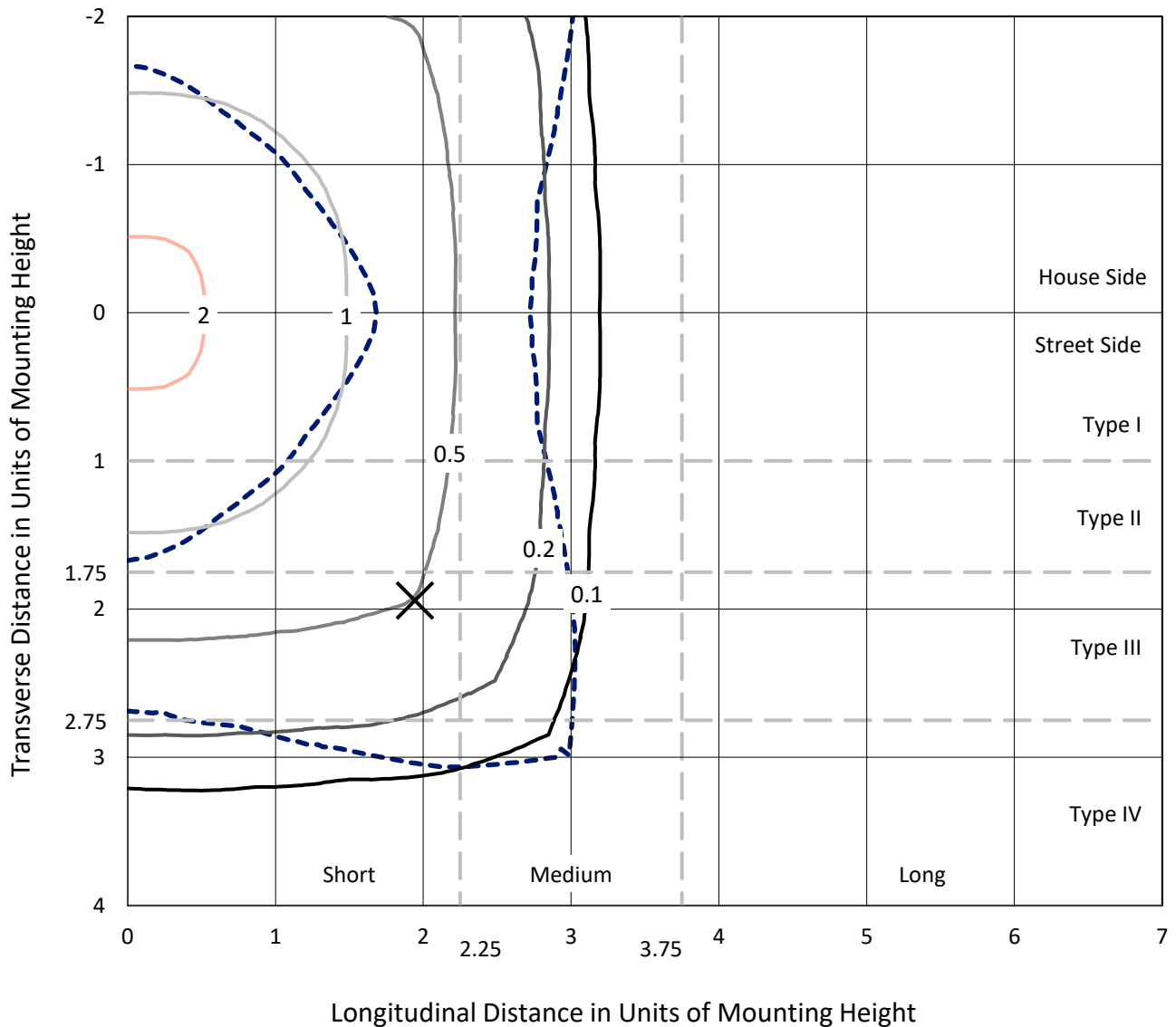
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

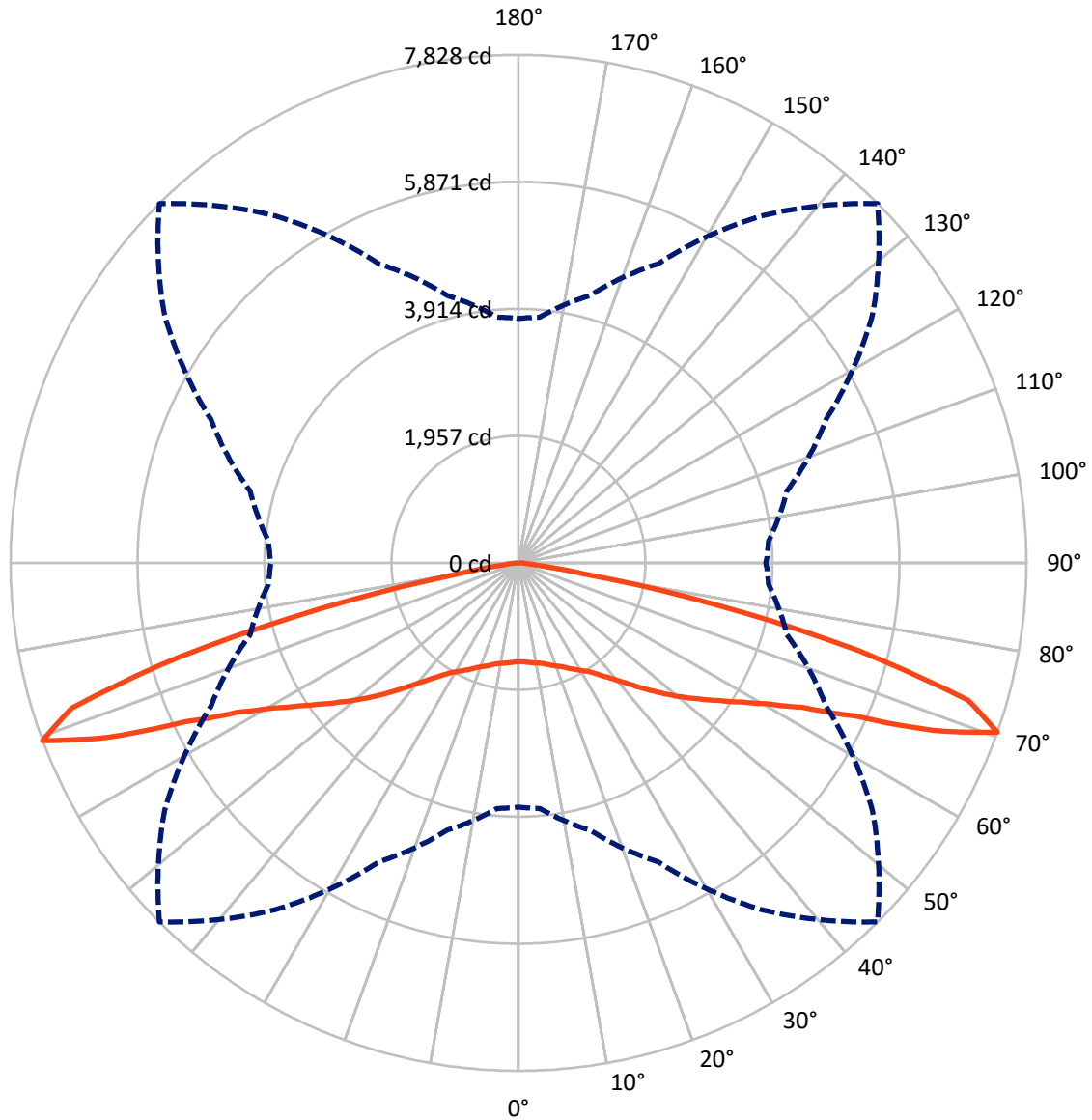
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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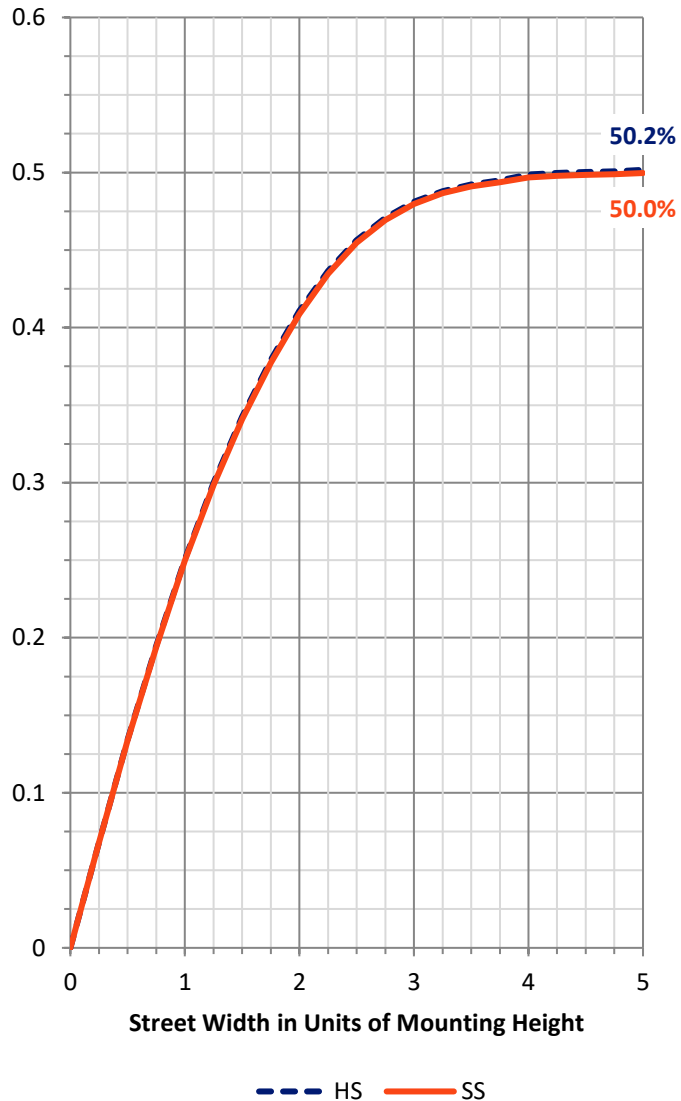
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7970.9	0.0	7970.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7970.9	0.0	7970.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	15941.8	0.0	15941.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	0.9
10°-20°	460.0	2.9
20°-30°	822.1	5.2
30°-40°	1332.6	8.4
40°-50°	2170.7	13.6
50°-60°	3309.6	20.8
60°-70°	4923.6	30.9
70°-80°	2683.5	16.8
80°-90°	91.4	0.6
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°	15941.8	100.0
0°-180°	15941.8	100.0

Coefficient of Utilization



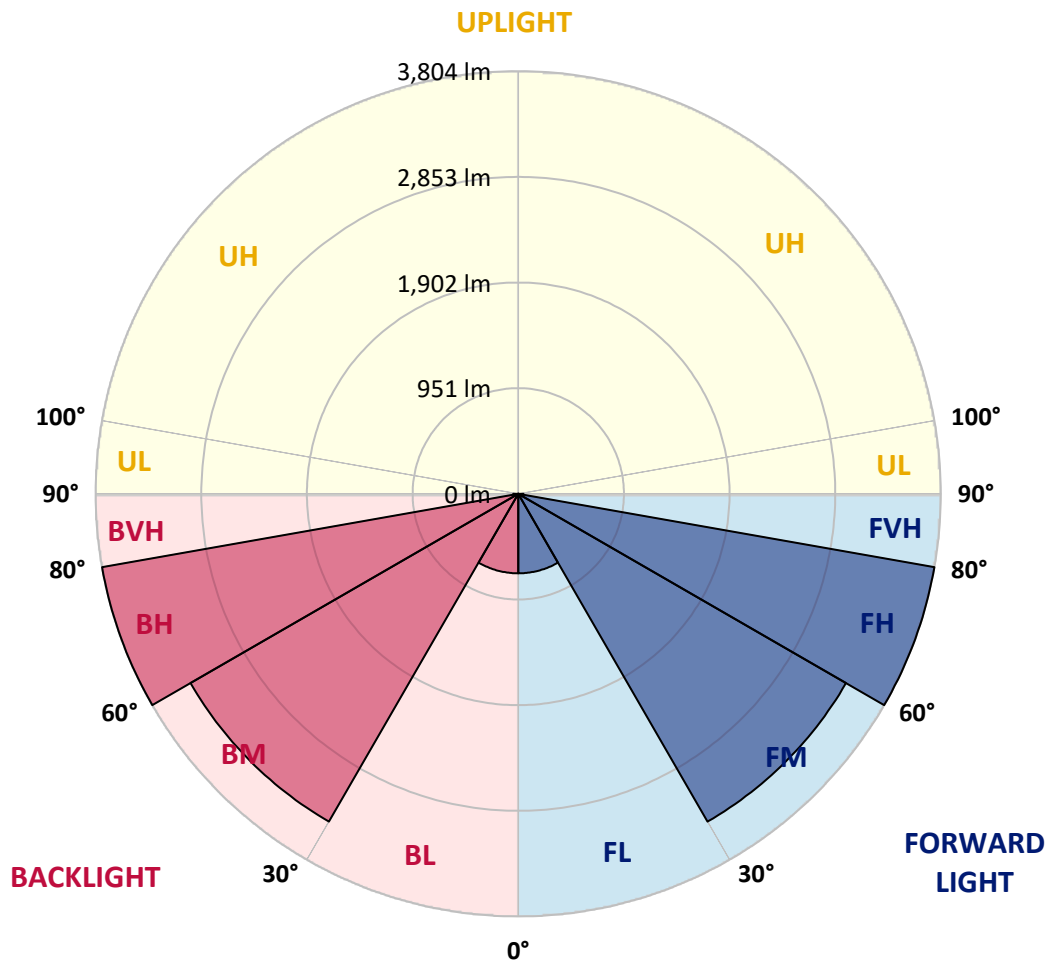
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	715.3	4.5			
FM (30°-60°)	3406.4	21.4			
FH (60°-80°)	3803.5	23.9			G2/5000
FVH (80°-90°)	45.7	0.3			G1/100
BL (0°-30°)	715.3	4.5	B2/1000		
BM (30°-60°)	3406.4	21.4	B3/5000		
BH (60°-80°)	3803.5	23.9	B4/5000		G2/5000
BVH (80°-90°)	45.7	0.3			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°	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0	1527.0
2.5°	1534.2	1535.9	1532.7	1531.0	1529.5	1527.0	1527.9	1531.9	1535.0	1534.2	1535.0
5°	1547.0	1548.7	1546.3	1545.5	1542.3	1541.5	1541.5	1545.5	1547.9	1546.3	1547.0
7.5°	1561.5	1563.8	1559.8	1559.0	1557.5	1555.8	1555.0	1559.0	1561.5	1561.5	1561.5
10°	1575.1	1577.5	1574.3	1571.8	1570.3	1570.3	1568.7	1571.8	1575.8	1575.1	1575.1
12.5°	1589.5	1591.1	1587.9	1586.3	1586.3	1588.6	1586.3	1587.9	1591.1	1589.5	1588.6
15°	1607.1	1607.9	1607.1	1609.5	1613.5	1621.6	1614.3	1612.7	1614.3	1610.3	1610.3
17.5°	1631.1	1632.7	1635.9	1641.5	1647.1	1661.5	1648.7	1644.7	1644.7	1636.7	1636.7
20°	1660.7	1663.2	1667.9	1677.5	1684.7	1698.3	1685.5	1680.0	1677.5	1667.2	1667.2
22.5°	1692.0	1696.0	1703.1	1716.0	1728.8	1741.6	1728.8	1719.1	1712.0	1698.3	1697.5
25°	1727.9	1732.8	1743.9	1764.7	1782.4	1800.8	1785.6	1766.4	1751.9	1732.8	1731.9
27.5°	1779.2	1784.7	1798.4	1824.0	1846.4	1862.4	1848.0	1823.2	1803.2	1780.0	1779.2
30°	1851.3	1856.8	1872.8	1900.0	1915.2	1925.7	1916.0	1896.9	1872.8	1846.4	1846.4
32.5°	1944.0	1951.3	1968.8	1994.4	1997.6	1999.3	1996.1	1986.4	1968.8	1936.8	1937.7
35°	2061.7	2069.7	2089.7	2110.5	2107.3	2110.5	2105.8	2102.5	2089.7	2052.9	2052.9
37.5°	2205.8	2215.3	2236.1	2252.1	2244.1	2240.1	2241.0	2241.8	2234.6	2193.7	2193.7
40°	2373.0	2385.8	2401.1	2417.9	2404.2	2392.2	2400.2	2406.6	2400.2	2358.6	2358.6
42.5°	2545.1	2563.5	2579.5	2603.5	2592.3	2577.2	2588.3	2595.5	2581.9	2537.1	2540.3
45°	2736.3	2754.0	2774.8	2810.9	2802.9	2786.8	2802.9	2804.4	2781.2	2728.3	2734.0
47.5°	2934.1	2952.5	2983.7	3031.7	3028.5	3010.9	3031.7	3020.5	2990.8	2927.7	2923.7
50°	3121.3	3147.0	3195.0	3262.2	3268.6	3247.0	3275.0	3253.5	3203.7	3124.5	3123.0
52.5°	3297.4	3324.7	3400.6	3491.9	3515.1	3487.2	3524.8	3487.2	3412.6	3311.1	3301.4
55°	3482.3	3512.7	3603.2	3722.4	3768.8	3748.0	3783.3	3726.4	3620.8	3497.5	3480.7
57.5°	3700.0	3718.4	3826.4	3968.1	4046.6	4051.3	4067.4	3971.4	3843.2	3703.2	3684.0
60°	3936.1	3961.7	4079.4	4249.0	4373.1	4413.1	4396.3	4253.9	4105.0	3944.1	3918.5
62.5°	4238.7	4266.7	4407.5	4610.8	4806.8	4906.2	4840.5	4634.0	4449.9	4257.0	4223.4
65°	4489.2	4520.4	4774.9	5137.4	5494.4	5693.7	5528.7	5148.7	4817.3	4545.2	4500.4
67.5°	4307.5	4345.9	4745.2	5411.2	6298.7	6893.4	6329.2	5492.8	4843.7	4474.7	4419.5
70°	3764.8	3800.8	4266.7	5080.6	6525.3	7828.2	6661.3	5230.3	4281.8	3868.9	3813.6
72.5°	2499.5	2615.5	3086.9	4063.4	5826.5	7244.0	5884.1	3980.9	2863.6	2493.9	2413.1
75°	829.1	922.0	1243.7	2106.5	3902.5	5417.5	3715.2	1864.0	985.2	709.1	670.7
77.5°	208.9	240.9	332.1	602.7	1556.7	3084.5	1401.4	492.2	268.1	187.3	167.3
80°	101.7	112.0	160.1	200.9	389.8	980.4	365.7	188.9	126.5	97.7	89.7
82.5°	56.1	56.8	90.4	113.7	144.8	253.7	150.5	110.5	72.9	59.2	59.2
85°	34.4	33.6	48.0	60.8	60.8	90.4	72.1	60.8	41.6	36.8	38.4
87.5°	13.6	13.6	17.6	19.2	16.8	23.2	18.4	20.0	16.0	15.2	16.0
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)