

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: P965516

Luminaire Tested: **NAV-SB4A-722-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-722-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15675.3 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

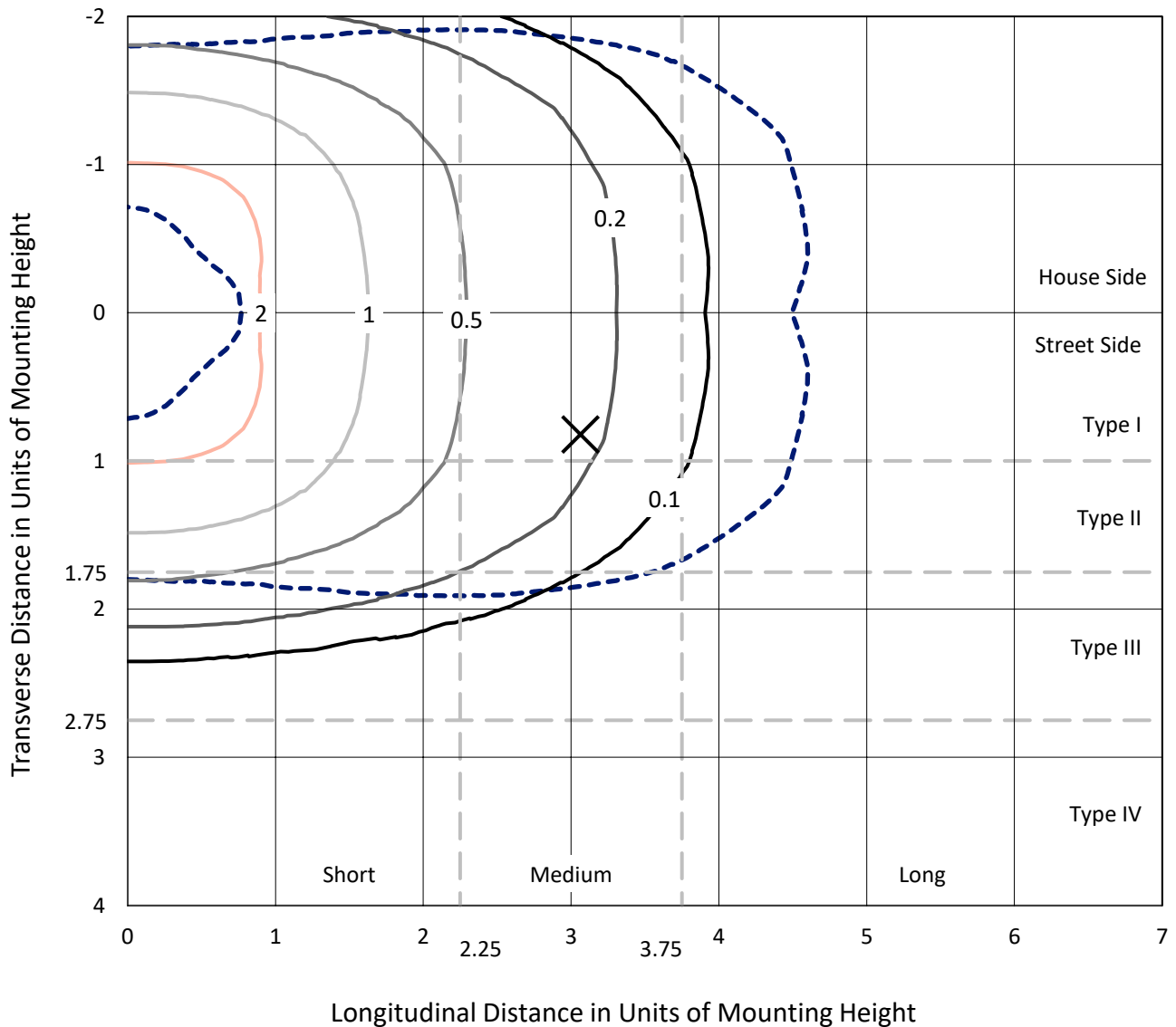
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

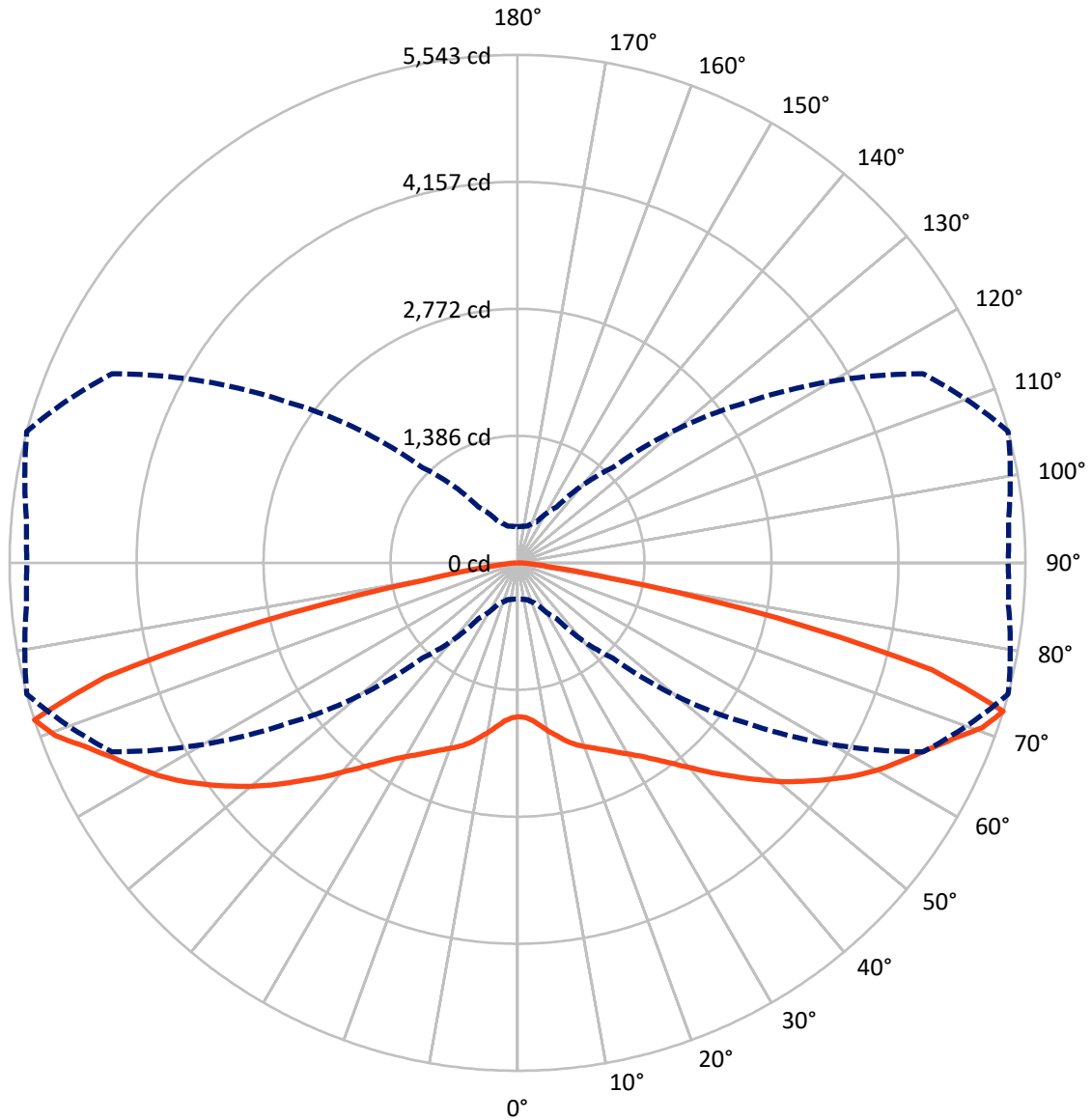
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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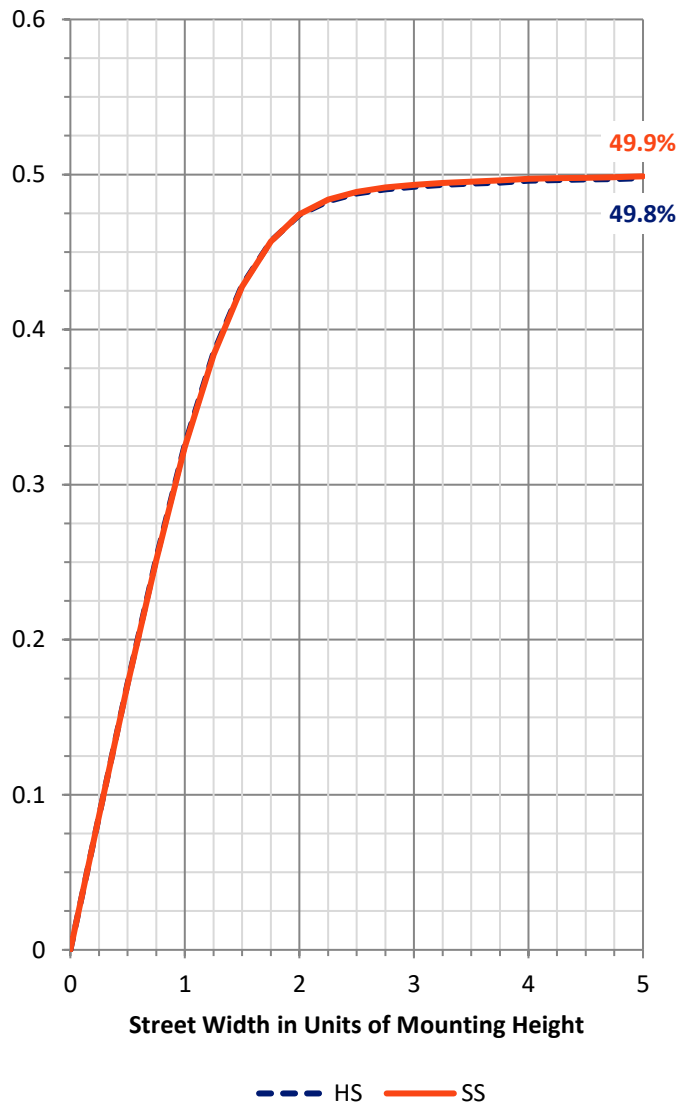
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7837.7	0.0	7837.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7837.7	0.0	7837.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	15675.3	0.0	15675.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.5	1.0
10°-20°	542.5	3.5
20°-30°	1048.3	6.7
30°-40°	1770.1	11.3
40°-50°	2807.1	17.9
50°-60°	3758.4	24.0
60°-70°	3576.8	22.8
70°-80°	1866.4	11.9
80°-90°	141.3	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°	15675.3	100.0
0°-180°	15675.3	100.0

Coefficient of Utilization

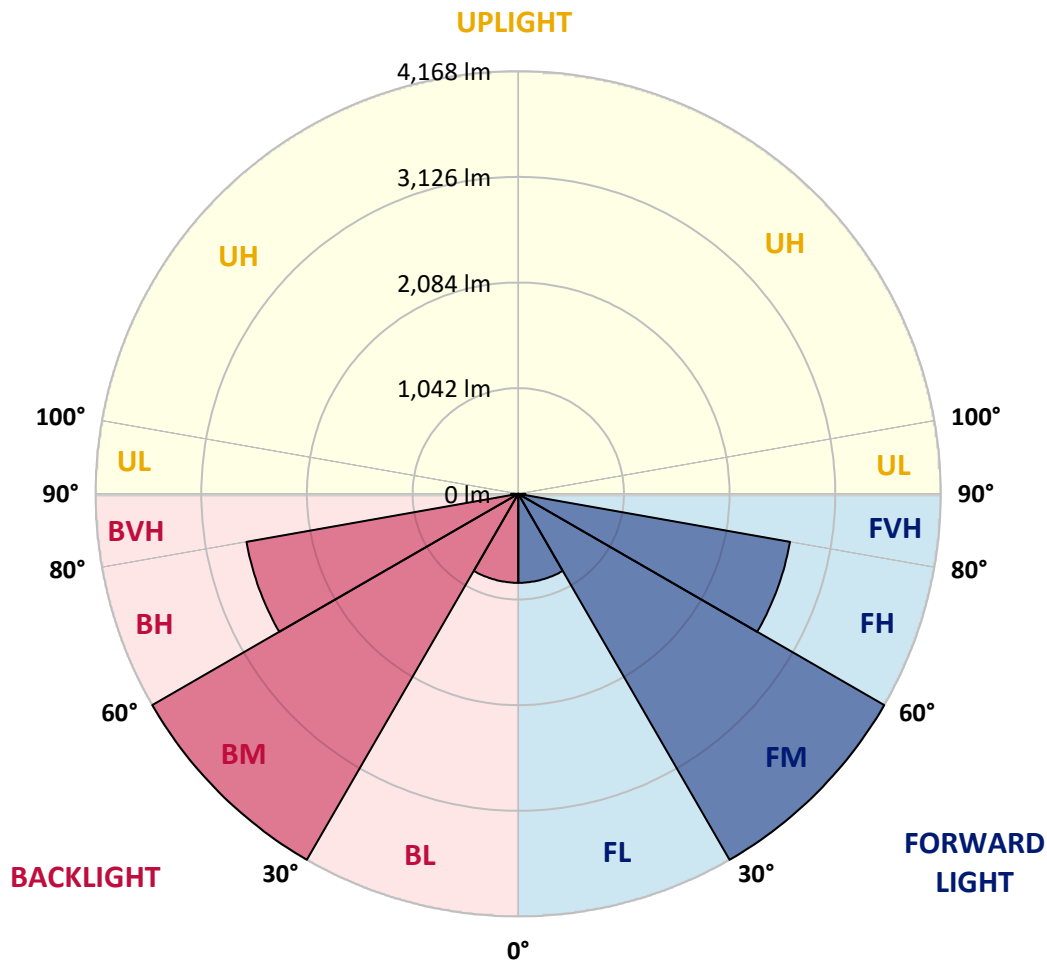


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.6	5.6			
FM (30°-60°)	4167.8	26.6			
FH (60°-80°)	2721.6	17.4			G2/5000
FVH (80°-90°)	70.6	0.5			G1/100
BL (0°-30°)	877.6	5.6	B2/1000		
BM (30°-60°)	4167.8	26.6	B3/5000		
BH (60°-80°)	2721.6	17.4	B4/5000		G4/5000
BVH (80°-90°)	70.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1679.2	1679.2	1679.2	1679.2	1679.2	1679.2	1679.2	1679.2	1679.2	1679.2	1679.2
2.5°	1679.2	1677.5	1679.2	1680.7	1679.9	1679.9	1683.9	1686.3	1691.1	1690.3	1689.5
5°	1667.9	1667.1	1673.5	1680.7	1686.3	1696.0	1708.0	1716.8	1727.9	1730.3	1730.3
7.5°	1662.3	1659.9	1671.1	1683.9	1701.5	1725.5	1748.8	1772.7	1791.9	1798.4	1800.0
10°	1666.3	1667.1	1682.3	1706.3	1734.3	1767.9	1800.7	1841.6	1868.8	1875.2	1881.6
12.5°	1684.7	1683.2	1708.7	1747.1	1785.6	1828.0	1866.4	1911.2	1940.8	1956.0	1962.5
15°	1718.3	1715.1	1751.1	1808.0	1864.0	1913.6	1944.8	1987.3	2021.6	2040.9	2048.1
17.5°	1758.4	1759.9	1807.2	1880.8	1954.5	2010.4	2040.1	2061.7	2088.1	2104.8	2112.9
20°	1828.8	1832.0	1884.8	1972.0	2056.0	2120.1	2144.1	2136.1	2143.3	2156.1	2165.7
22.5°	1923.2	1924.8	1984.0	2078.5	2166.5	2237.0	2253.0	2220.1	2200.2	2209.0	2215.3
25°	2032.9	2043.2	2102.5	2199.3	2289.7	2357.0	2364.2	2314.6	2264.9	2267.4	2271.4
27.5°	2166.5	2176.1	2236.1	2332.2	2424.2	2482.7	2481.8	2415.4	2342.6	2324.2	2329.8
30°	2311.4	2321.8	2383.4	2482.7	2568.2	2619.5	2608.3	2529.1	2425.0	2390.6	2394.6
32.5°	2483.5	2489.8	2552.2	2651.5	2730.7	2771.6	2748.3	2650.8	2521.1	2481.8	2491.5
35°	2691.5	2701.2	2747.5	2841.2	2910.8	2944.4	2905.3	2789.9	2644.3	2600.3	2606.7
37.5°	2929.2	2922.8	2975.7	3058.9	3116.5	3137.3	3083.7	2946.9	2785.1	2733.2	2742.8
40°	3177.3	3174.1	3231.7	3311.8	3343.0	3355.8	3276.6	3127.0	2947.6	2891.6	2910.1
42.5°	3402.3	3399.8	3477.4	3566.3	3603.9	3589.6	3489.5	3318.2	3135.7	3071.7	3087.7
45°	3582.3	3579.1	3674.3	3799.2	3872.9	3848.8	3714.4	3529.5	3326.2	3259.8	3275.0
47.5°	3720.7	3722.4	3824.8	3979.3	4108.1	4116.9	3944.1	3744.7	3535.8	3460.7	3483.1
50°	3820.8	3825.6	3935.3	4106.6	4282.7	4360.2	4178.5	3965.6	3752.8	3668.0	3693.6
52.5°	3845.6	3854.4	3986.4	4187.3	4394.7	4542.7	4417.0	4177.8	3958.4	3877.7	3898.5
55°	3713.6	3731.2	3898.5	4181.0	4463.5	4662.7	4626.7	4393.0	4165.8	4082.5	4105.7
57.5°	3410.3	3435.1	3630.3	3999.2	4448.3	4745.2	4789.2	4599.6	4373.1	4293.0	4311.5
60°	2985.2	3014.8	3202.1	3604.7	4233.8	4775.6	4903.7	4800.4	4563.5	4485.9	4502.7
62.5°	2344.2	2382.6	2606.7	3078.9	3780.8	4633.9	5001.3	4982.1	4734.8	4637.9	4649.2
65°	1503.9	1544.7	1780.7	2338.5	3176.6	4200.1	5031.7	5158.9	4915.7	4780.4	4797.2
67.5°	906.8	925.2	1042.0	1417.4	2321.8	3546.3	4774.0	5355.0	5126.9	4958.8	4971.7
70°	580.3	590.6	660.3	832.3	1312.5	2587.5	4135.4	5391.9	5383.1	5142.1	5140.6
72.5°	393.8	397.0	415.3	493.0	742.7	1470.3	3050.1	4881.3	5543.1	5378.3	5352.7
75°	288.1	305.8	335.4	348.9	421.8	734.7	1747.9	3429.4	4671.5	4743.6	4569.1
77.5°	214.5	215.2	256.1	272.1	300.9	391.3	739.5	1914.4	2900.4	3045.3	2716.4
80°	181.6	172.1	171.3	219.2	226.5	244.1	330.6	661.1	1038.8	629.9	476.2
82.5°	151.3	140.8	127.2	171.3	154.5	149.6	143.3	269.0	330.6	162.5	138.5
85°	105.7	100.9	96.0	112.0	88.0	75.2	68.9	125.7	139.3	68.9	60.8
87.5°	45.6	47.3	48.0	49.6	36.8	26.4	26.4	35.3	35.3	27.2	20.0
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)