

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: P965542

Luminaire Tested: **NAV-SB4A-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965542
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-727-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17899.6 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

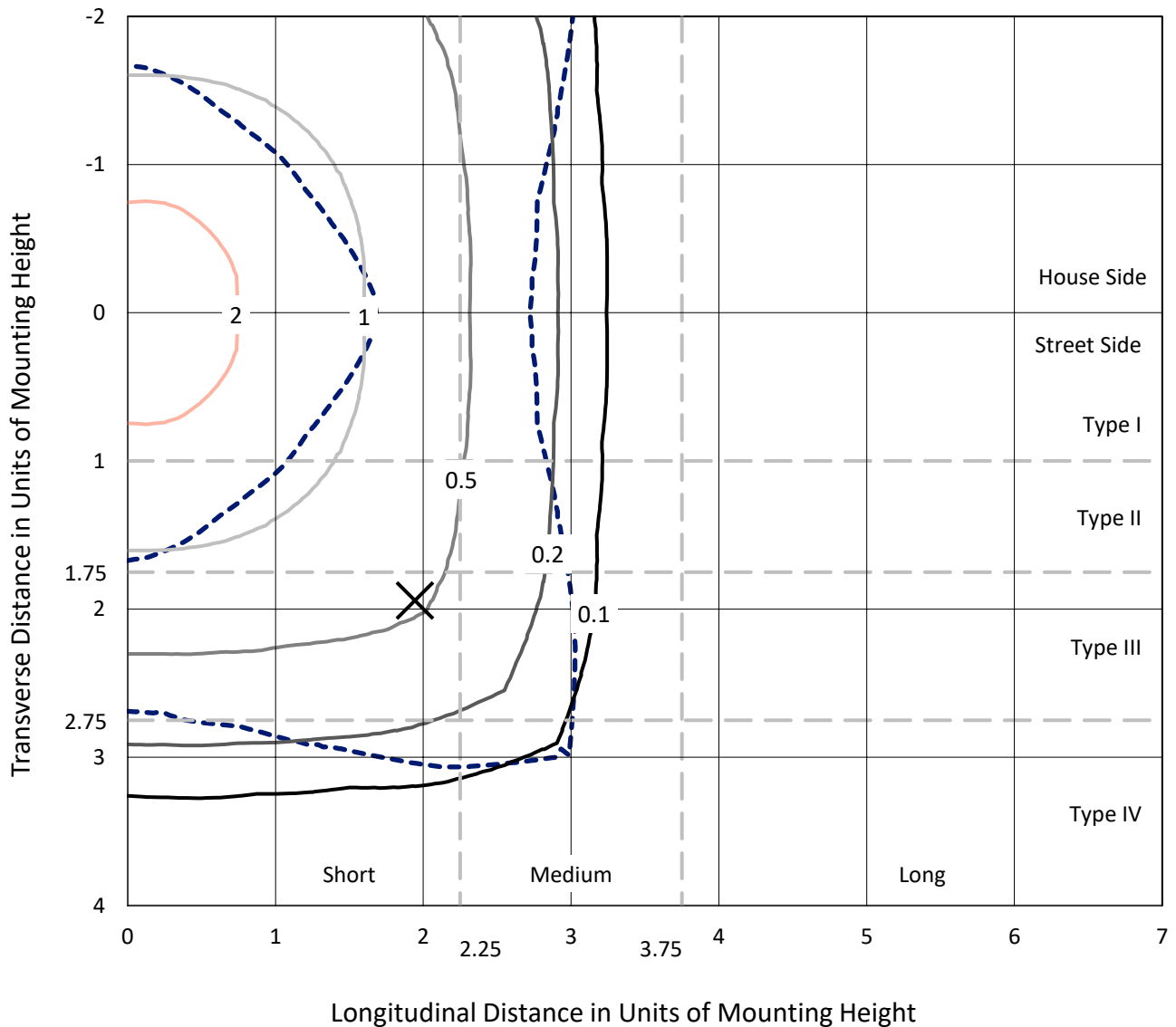
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

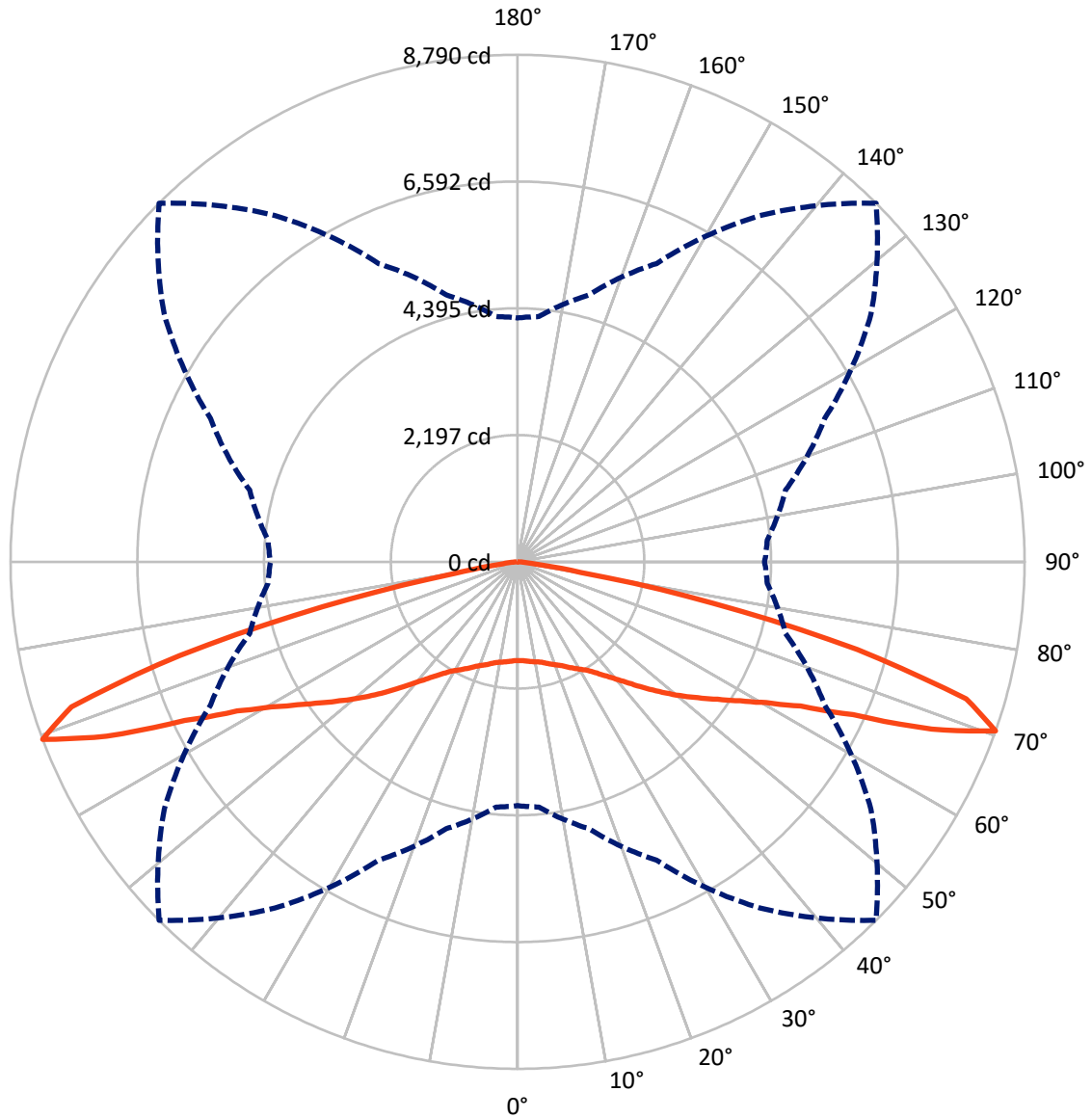
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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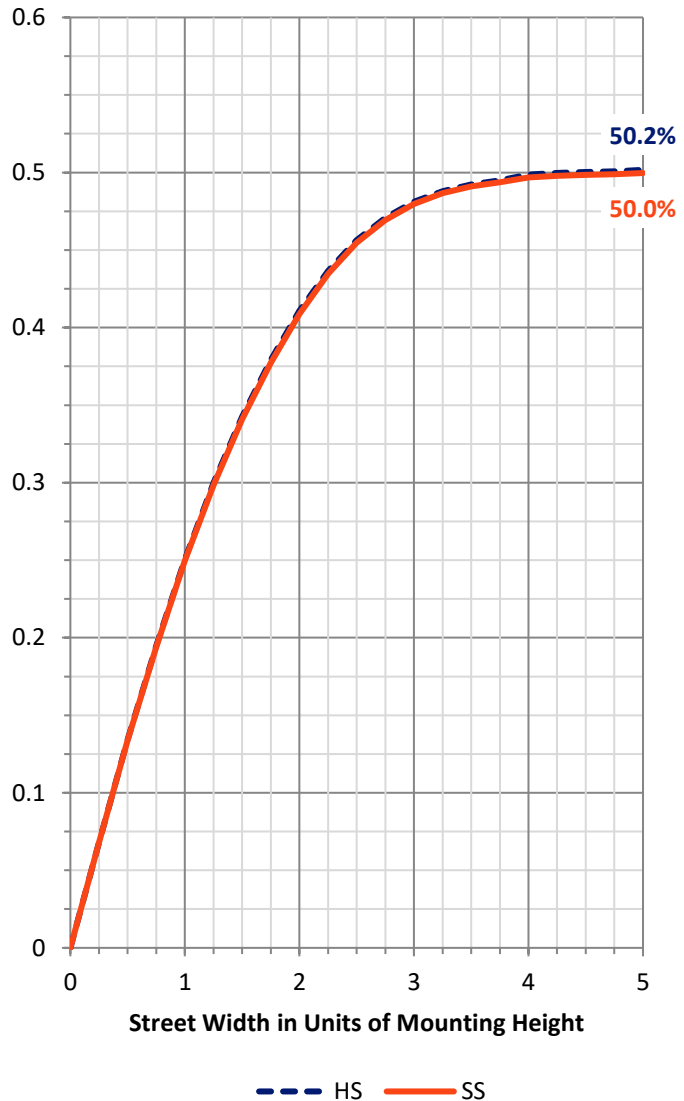
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8949.8	0.0	8949.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8949.8	0.0	8949.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	17899.6	0.0	17899.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	0.9
10°-20°	516.5	2.9
20°-30°	923.1	5.2
30°-40°	1496.3	8.4
40°-50°	2437.3	13.6
50°-60°	3716.0	20.8
60°-70°	5528.2	30.9
70°-80°	3013.0	16.8
80°-90°	102.6	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°	17899.6	100.0
0°-180°	17899.6	100.0

Coefficient of Utilization



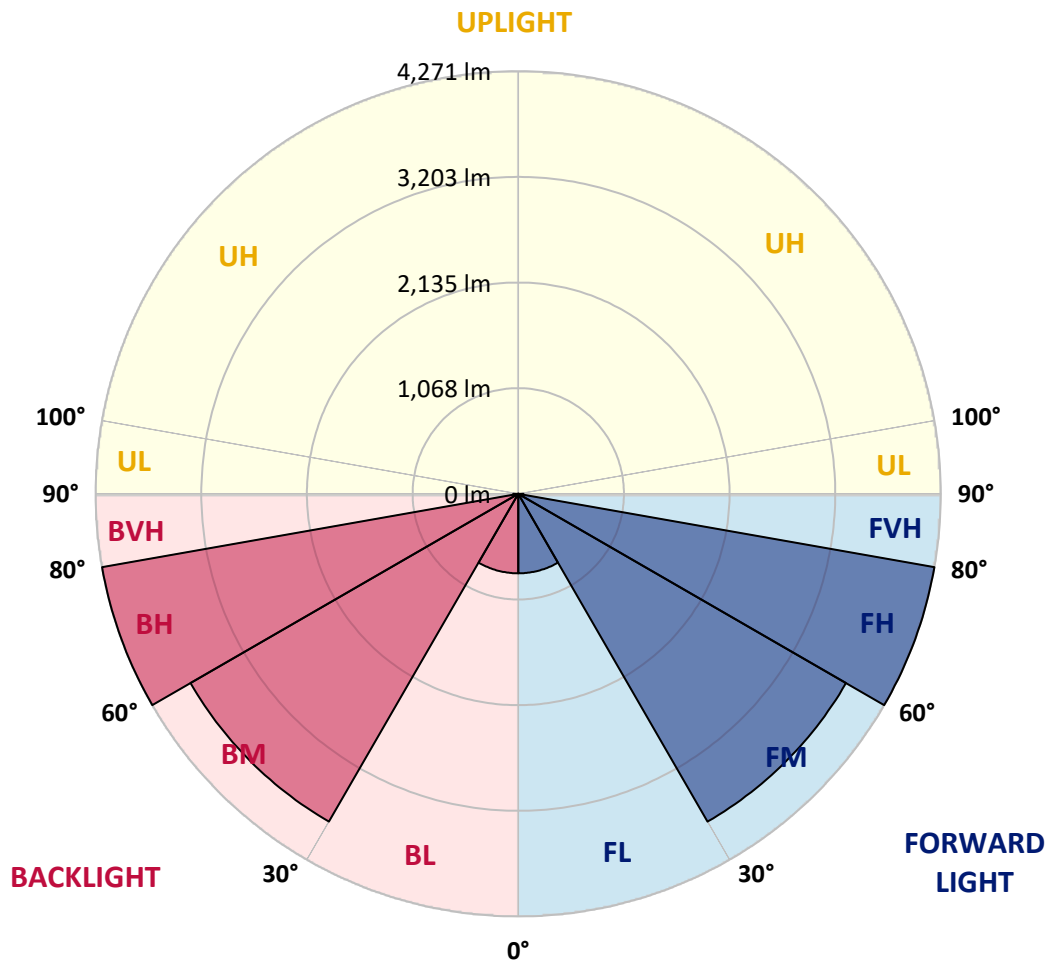
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.1	4.5			
FM (30°-60°)	3824.8	21.4			
FH (60°-80°)	4270.6	23.9			G2/5000
FVH (80°-90°)	51.3	0.3			G1/100
BL (0°-30°)	803.1	4.5	B2/1000		
BM (30°-60°)	3824.8	21.4	B3/5000		
BH (60°-80°)	4270.6	23.9	B4/5000		G2/5000
BVH (80°-90°)	51.3	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°	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6	1714.6
2.5°	1722.7	1724.5	1720.9	1719.1	1717.3	1714.6	1715.5	1720.0	1723.5	1722.7	1723.5
5°	1737.1	1738.8	1736.1	1735.2	1731.6	1730.8	1730.8	1735.2	1738.0	1736.1	1737.1
7.5°	1753.3	1755.9	1751.4	1750.5	1748.8	1746.9	1746.1	1750.5	1753.3	1753.3	1753.3
10°	1768.5	1771.2	1767.6	1764.9	1763.1	1763.1	1761.4	1764.9	1769.5	1768.5	1768.5
12.5°	1784.7	1786.5	1782.9	1781.1	1781.1	1783.8	1781.1	1782.9	1786.5	1784.7	1783.8
15°	1804.4	1805.3	1804.4	1807.2	1811.7	1820.6	1812.5	1810.8	1812.5	1808.1	1808.1
17.5°	1831.4	1833.2	1836.8	1843.1	1849.4	1865.6	1851.2	1846.7	1846.7	1837.7	1837.7
20°	1864.7	1867.3	1872.8	1883.5	1891.6	1906.9	1892.6	1886.2	1883.5	1871.9	1871.9
22.5°	1899.7	1904.2	1912.3	1926.7	1941.0	1955.4	1941.0	1930.3	1922.2	1906.9	1906.0
25°	1940.1	1945.6	1958.2	1981.5	2001.2	2021.9	2004.9	1983.3	1967.1	1945.6	1944.6
27.5°	1997.6	2004.0	2019.2	2048.0	2073.2	2091.1	2074.9	2047.1	2024.6	1998.5	1997.6
30°	2078.5	2084.8	2102.8	2133.3	2150.4	2162.1	2151.4	2129.7	2102.8	2073.2	2073.2
32.5°	2182.7	2190.8	2210.6	2239.4	2243.0	2244.8	2241.2	2230.4	2210.6	2174.7	2175.6
35°	2314.9	2323.9	2346.3	2369.7	2366.1	2369.7	2364.3	2360.7	2346.3	2305.0	2305.0
37.5°	2476.6	2487.5	2510.7	2528.8	2519.8	2515.2	2516.2	2517.1	2509.0	2463.2	2463.2
40°	2664.5	2678.8	2695.9	2714.8	2699.5	2686.0	2695.0	2702.2	2695.0	2648.3	2648.3
42.5°	2857.7	2878.3	2896.3	2923.3	2910.7	2893.6	2906.2	2914.3	2899.0	2848.7	2852.3
45°	3072.4	3092.2	3115.6	3156.0	3147.1	3129.0	3147.1	3148.8	3122.8	3063.4	3069.8
47.5°	3294.4	3315.1	3350.1	3404.0	3400.4	3380.7	3404.0	3391.4	3358.2	3287.2	3282.7
50°	3504.7	3533.4	3587.4	3662.8	3670.0	3645.7	3677.2	3653.0	3597.2	3508.3	3506.4
52.5°	3702.4	3732.9	3818.3	3920.7	3946.8	3915.4	3957.6	3915.4	3831.8	3717.7	3706.9
55°	3910.0	3944.1	4045.7	4179.5	4231.7	4208.3	4247.8	4184.0	4065.5	3927.1	3908.1
57.5°	4154.4	4175.0	4296.4	4455.5	4543.5	4548.8	4566.9	4459.1	4315.2	4158.0	4136.4
60°	4419.5	4448.2	4580.3	4770.9	4910.2	4955.1	4936.2	4776.2	4609.1	4428.5	4399.7
62.5°	4759.2	4790.6	4948.8	5177.1	5397.2	5508.7	5435.0	5203.1	4996.4	4779.9	4742.1
65°	5040.4	5075.5	5361.3	5768.3	6169.2	6392.9	6207.8	5780.9	5408.9	5103.4	5053.0
67.5°	4836.5	4879.6	5328.1	6075.7	7072.3	7740.0	7106.4	6167.3	5438.5	5024.2	4962.2
70°	4227.2	4267.6	4790.6	5704.5	7326.6	8789.6	7479.3	5872.5	4807.7	4344.0	4282.0
72.5°	2806.4	2936.7	3466.0	4562.4	6542.1	8133.6	6606.7	4469.8	3215.3	2800.1	2709.4
75°	931.0	1035.2	1396.5	2365.2	4381.8	6082.9	4171.4	2092.9	1106.2	796.2	753.1
77.5°	234.5	270.5	372.9	676.7	1747.8	3463.4	1573.5	552.7	301.0	210.3	187.8
80°	114.1	125.8	179.7	225.6	437.7	1100.8	410.7	212.1	142.0	109.7	100.7
82.5°	62.9	63.8	101.6	127.6	162.7	284.8	168.9	124.0	81.8	66.5	66.5
85°	38.6	37.7	53.9	68.3	68.3	101.6	80.9	68.3	46.7	41.3	43.2
87.5°	15.3	15.3	19.8	21.5	18.9	26.0	20.7	22.4	17.9	17.1	17.9
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)