

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: P962876

Luminaire Tested: **NAV-SB2D-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962876
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-SB2D-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18046.2 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

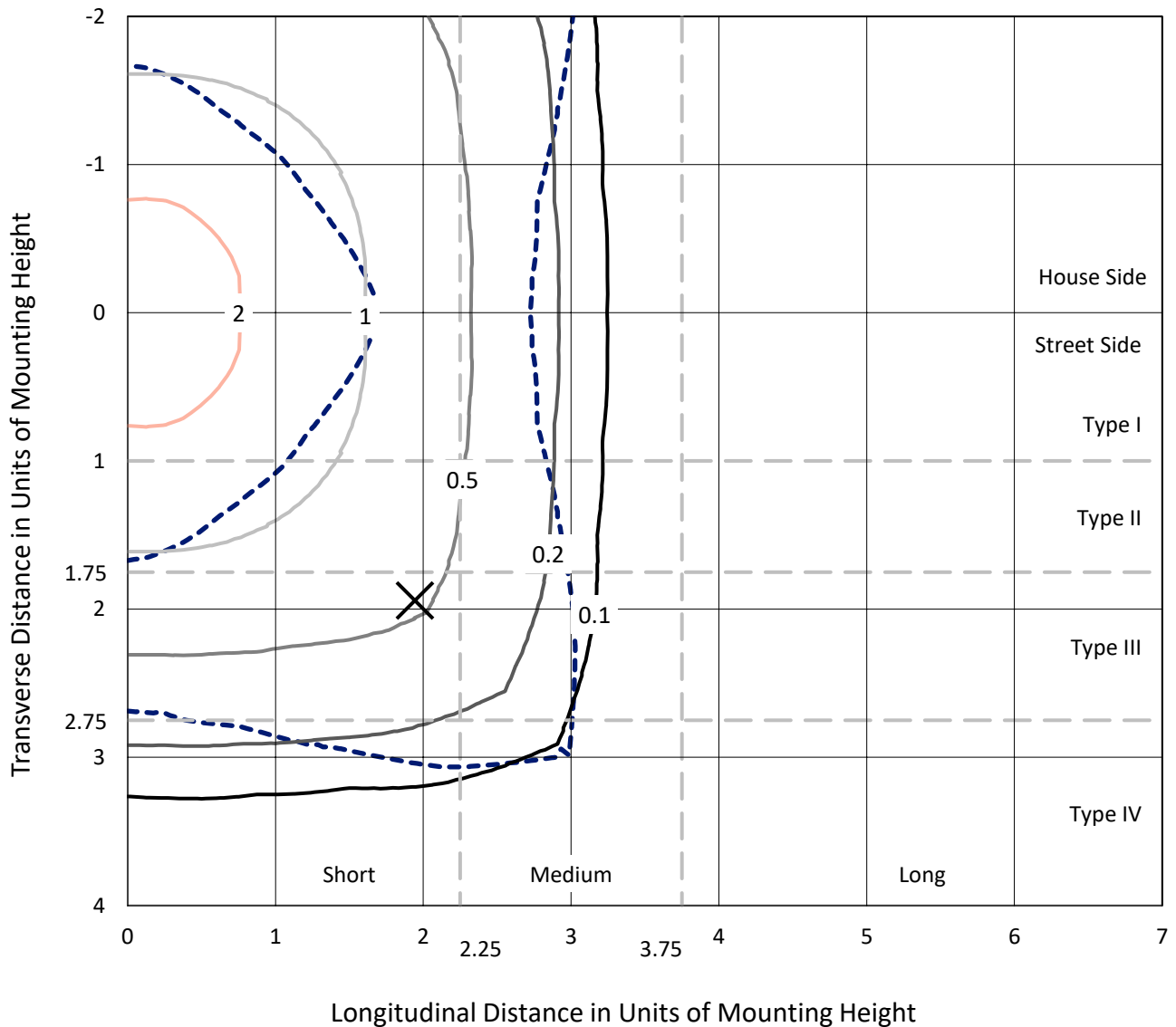
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

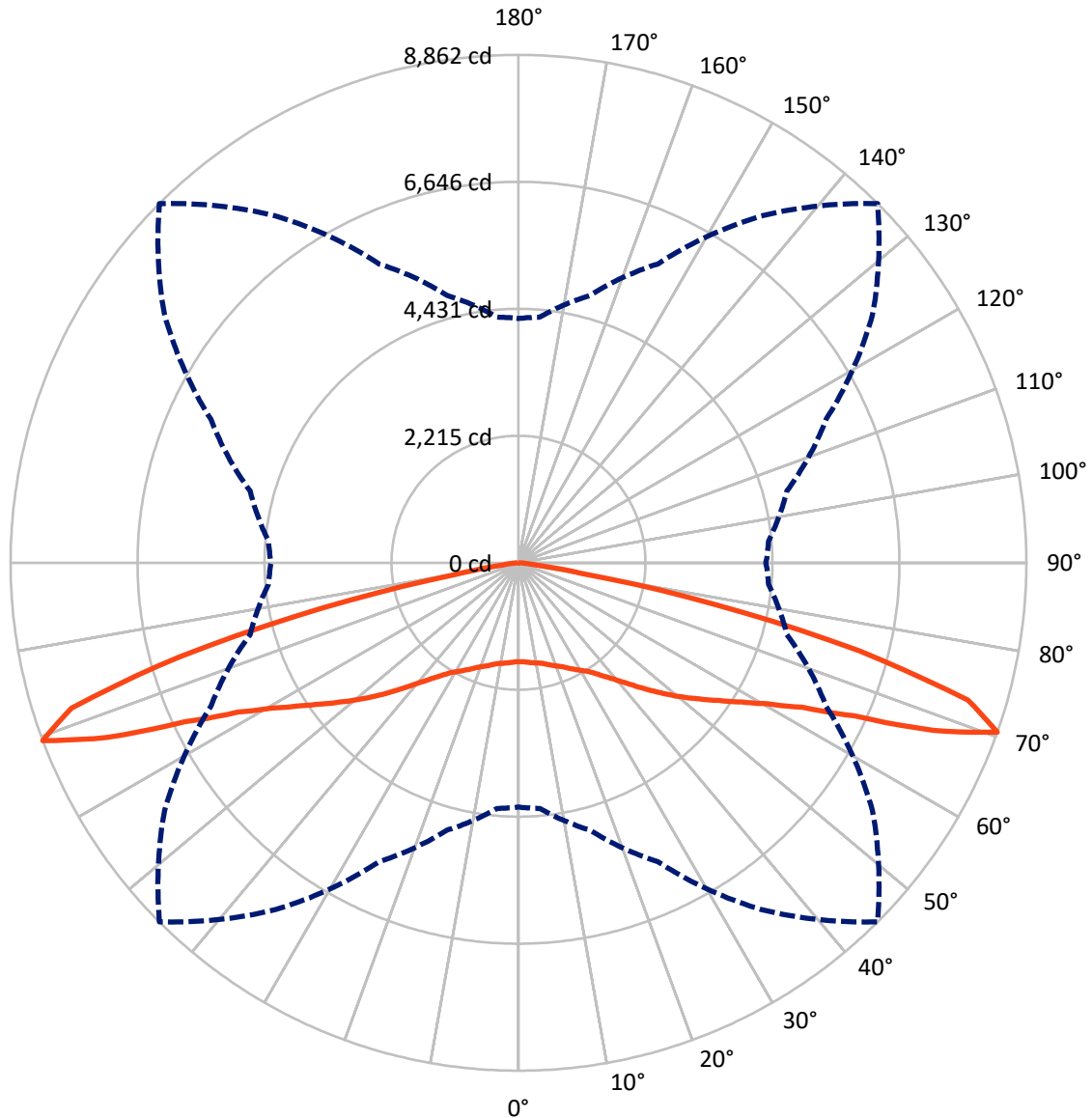
× Max cd
 - - - 1/2 Max cd



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	9023.1	0.0	9023.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9023.1	0.0	9023.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	18046.2	0.0	18046.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	0.9
10°-20°	520.8	2.9
20°-30°	930.6	5.2
30°-40°	1508.6	8.4
40°-50°	2457.2	13.6
50°-60°	3746.4	20.8
60°-70°	5573.5	30.9
70°-80°	3037.7	16.8
80°-90°	103.4	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°	18046.2	100.0
0°-180°	18046.2	100.0

Coefficient of Utilization



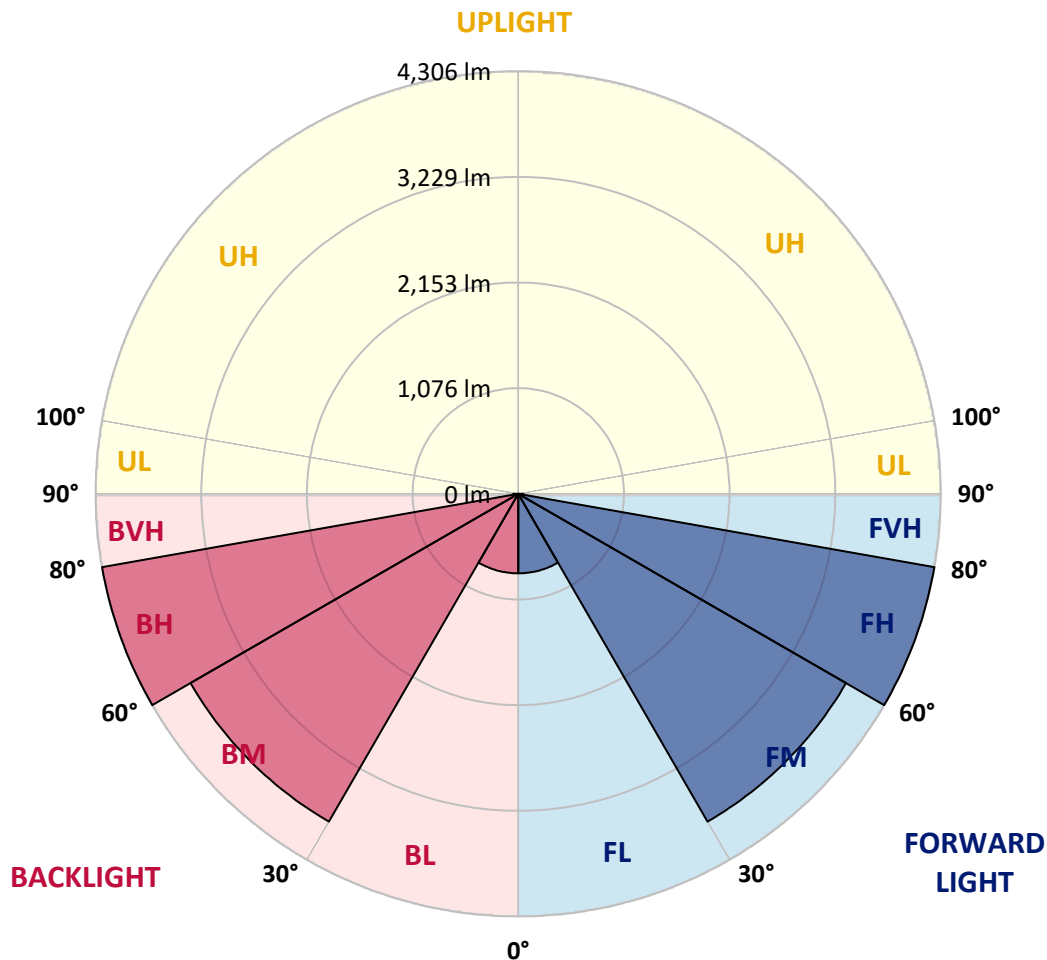
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.7	4.5			
FM (30°-60°)	3856.1	21.4			
FH (60°-80°)	4305.6	23.9			G2/5000
FVH (80°-90°)	51.7	0.3			G1/100
BL (0°-30°)	809.7	4.5	B2/1000		
BM (30°-60°)	3856.1	21.4	B3/5000		
BH (60°-80°)	4305.6	23.9	B4/5000		G2/5000
BVH (80°-90°)	51.7	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°	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7	1728.7
2.5°	1736.8	1738.6	1735.0	1733.2	1731.3	1728.7	1729.6	1734.1	1737.7	1736.8	1737.7
5°	1751.3	1753.1	1750.4	1749.5	1745.9	1745.0	1745.0	1749.5	1752.2	1750.4	1751.3
7.5°	1767.6	1770.3	1765.8	1764.8	1763.1	1761.3	1760.3	1764.8	1767.6	1767.6	1767.6
10°	1783.0	1785.8	1782.1	1779.4	1777.6	1777.6	1775.7	1779.4	1783.9	1783.0	1783.0
12.5°	1799.3	1801.1	1797.4	1795.7	1795.7	1798.4	1795.7	1797.4	1801.1	1799.3	1798.4
15°	1819.3	1820.1	1819.3	1821.9	1826.4	1835.6	1827.4	1825.5	1827.4	1822.9	1822.9
17.5°	1846.4	1848.2	1851.9	1858.2	1864.6	1880.9	1866.3	1861.8	1861.8	1852.8	1852.8
20°	1880.0	1882.6	1888.0	1898.9	1907.1	1922.5	1908.0	1901.7	1898.9	1887.2	1887.2
22.5°	1915.3	1919.8	1927.9	1942.5	1956.9	1971.5	1956.9	1946.1	1938.0	1922.5	1921.6
25°	1956.0	1961.4	1974.2	1997.7	2017.6	2038.5	2021.3	1999.6	1983.2	1961.4	1960.5
27.5°	2014.0	2020.4	2035.8	2064.8	2090.1	2108.2	2091.9	2063.8	2041.2	2014.9	2014.0
30°	2095.6	2101.9	2120.0	2150.9	2168.1	2179.9	2168.9	2147.2	2120.0	2090.1	2090.1
32.5°	2200.7	2208.8	2228.8	2257.8	2261.4	2263.2	2259.5	2248.6	2228.8	2192.5	2193.4
35°	2333.8	2342.9	2365.6	2389.1	2385.5	2389.1	2383.6	2380.0	2365.6	2323.9	2323.9
37.5°	2496.9	2507.8	2531.3	2549.5	2540.4	2535.8	2536.8	2537.7	2529.5	2483.4	2483.4
40°	2686.3	2700.8	2718.0	2737.0	2721.6	2708.0	2717.1	2724.3	2717.1	2669.9	2669.9
42.5°	2881.1	2901.9	2920.0	2947.2	2934.5	2917.3	2930.0	2938.2	2922.7	2871.9	2875.6
45°	3097.5	3117.5	3141.1	3181.8	3172.8	3154.6	3172.8	3174.6	3148.3	3088.5	3094.9
47.5°	3321.4	3342.2	3377.6	3431.9	3428.3	3408.3	3431.9	3419.2	3385.7	3314.1	3309.6
50°	3533.4	3562.4	3616.7	3692.9	3700.0	3675.6	3707.3	3682.8	3626.7	3537.0	3535.2
52.5°	3732.6	3763.5	3849.6	3952.8	3979.2	3947.4	3990.0	3947.4	3863.1	3748.1	3737.3
55°	3941.9	3976.4	4078.8	4213.8	4266.4	4242.8	4282.7	4218.3	4098.7	3959.2	3940.2
57.5°	4188.4	4209.3	4331.5	4492.0	4580.7	4586.2	4604.3	4495.5	4350.6	4192.0	4170.3
60°	4455.7	4484.7	4617.8	4809.9	4950.3	4995.6	4976.6	4815.3	4646.8	4464.7	4435.8
62.5°	4798.1	4829.8	4989.3	5219.4	5441.4	5553.8	5479.4	5245.7	5037.4	4818.9	4780.9
65°	5081.7	5117.0	5405.1	5815.5	6219.6	6445.2	6258.5	5828.3	5453.2	5145.1	5094.4
67.5°	4876.0	4919.6	5371.6	6125.4	7130.2	7803.3	7164.5	6217.9	5483.0	5065.4	5002.9
70°	4261.7	4302.5	4829.8	5751.3	7386.6	8861.5	7540.6	5920.7	4847.0	4379.6	4317.1
72.5°	2829.4	2960.8	3494.4	4599.7	6595.7	8200.1	6660.9	4506.4	3241.7	2823.1	2731.5
75°	938.6	1043.7	1407.9	2384.6	4417.6	6132.7	4205.6	2110.1	1115.3	802.7	759.2
77.5°	236.5	272.8	376.0	682.2	1762.2	3491.7	1586.4	557.2	303.5	212.0	189.3
80°	115.1	126.8	181.2	227.4	441.3	1109.9	414.0	213.8	143.2	110.5	101.5
82.5°	63.4	64.4	102.4	128.6	164.0	287.2	170.4	125.0	82.4	67.0	67.0
85°	38.9	38.0	54.3	68.9	68.9	102.4	81.6	68.9	47.2	41.7	43.5
87.5°	15.4	15.4	19.9	21.7	19.1	26.2	20.8	22.7	18.1	17.2	18.1
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)