

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: P965637

Luminaire Tested: **NAV-SB4A-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965637
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-SB4A-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19720 lumens
Efficiency: N/A
Efficacy: 173.0 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): 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



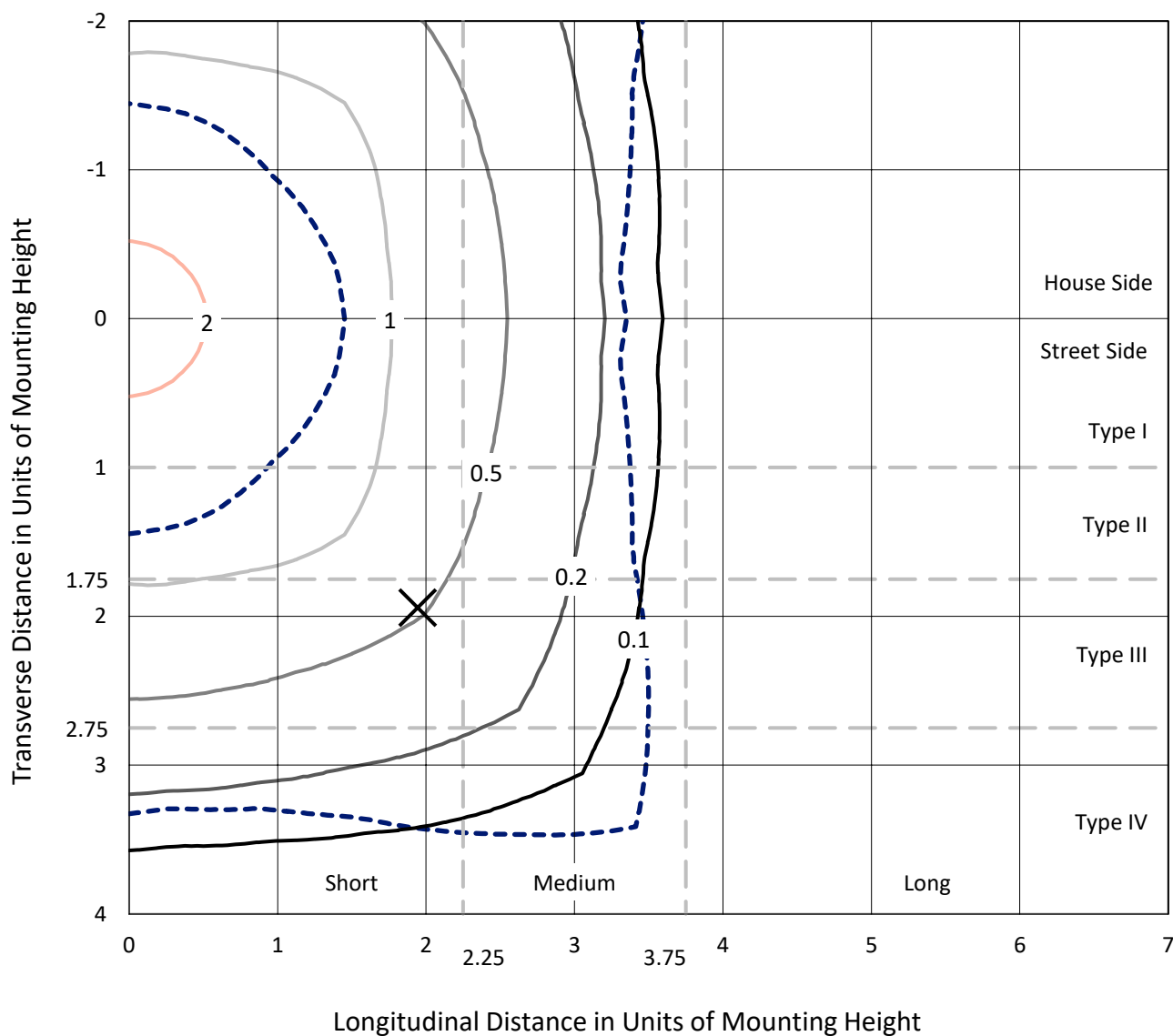
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

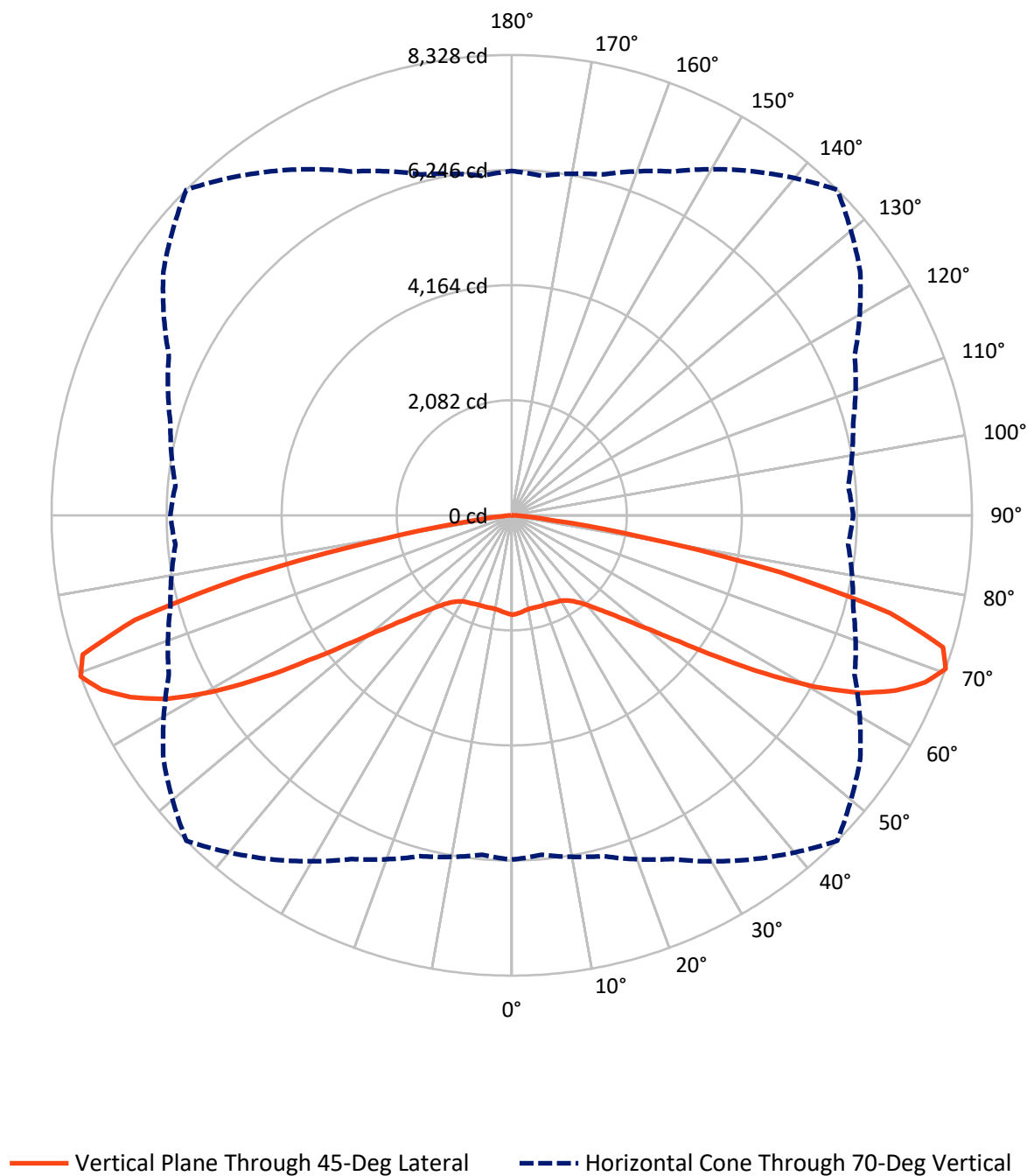


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9860.0	0.0	9860.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9860.0	0.0	9860.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19720.0	0.0	19720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	0.8
10°-20°	491.3	2.5
20°-30°	817.7	4.1
30°-40°	1236.6	6.3
40°-50°	2054.9	10.4
50°-60°	3877.5	19.7
60°-70°	6547.2	33.2
70°-80°	4302.2	21.8
80°-90°	225.4	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°	19720.0	100.0
0°-180°	19720.0	100.0

Coefficient of Utilization



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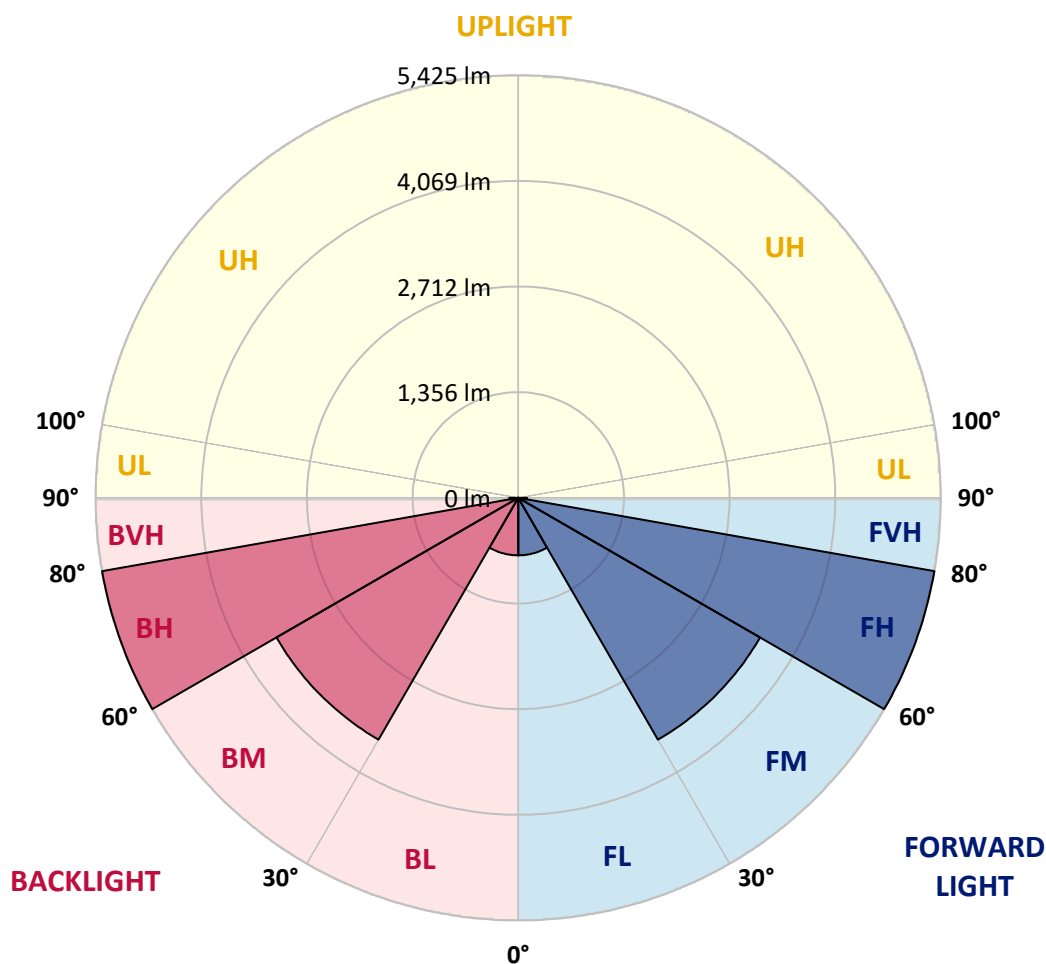
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	738.2	3.7			
FM	(30°-60°)	3584.4	18.2			
FH	(60°-80°)	5424.7	27.5			G3/7500
FVH	(80°-90°)	112.7	0.6			G2/225
BL	(0°-30°)	738.2	3.7	B2/1000		
BM	(30°-60°)	3584.4	18.2	B3/5000		
BH	(60°-80°)	5424.7	27.5	B5		G3/7500
BVH	(80°-90°)	112.7	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°	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9	1798.9
2.5°	1787.6	1792.7	1790.7	1786.6	1786.6	1783.5	1786.6	1788.6	1791.7	1793.7	1792.7
5°	1764.0	1768.1	1767.1	1764.0	1765.0	1762.0	1764.0	1767.1	1769.2	1770.2	1770.2
7.5°	1743.5	1747.6	1745.6	1740.4	1740.4	1737.4	1738.4	1741.5	1744.6	1745.6	1745.6
10°	1738.4	1742.5	1736.4	1728.2	1725.1	1721.0	1722.0	1725.1	1731.2	1734.3	1734.3
12.5°	1740.4	1743.5	1737.4	1725.1	1722.0	1717.9	1717.9	1721.0	1729.2	1733.3	1734.3
15°	1746.6	1749.7	1740.4	1727.1	1724.0	1721.0	1720.0	1724.0	1733.3	1740.4	1741.5
17.5°	1757.9	1761.0	1746.6	1728.2	1724.0	1725.1	1724.0	1727.1	1741.5	1754.8	1754.8
20°	1768.1	1770.2	1750.7	1728.2	1724.0	1725.1	1724.0	1730.2	1748.6	1767.1	1768.1
22.5°	1771.2	1773.2	1754.8	1735.3	1732.2	1733.3	1732.2	1738.4	1755.8	1774.3	1774.3
25°	1772.2	1775.3	1761.0	1745.6	1750.7	1752.7	1750.7	1751.7	1765.0	1781.4	1780.4
27.5°	1787.6	1791.7	1778.4	1765.0	1768.1	1767.1	1770.2	1773.2	1783.5	1799.9	1795.8
30°	1819.4	1822.4	1811.2	1797.8	1795.8	1788.6	1797.8	1808.1	1819.4	1833.7	1830.6
32.5°	1871.6	1877.8	1863.4	1849.1	1839.9	1835.8	1843.0	1860.4	1875.7	1891.1	1885.0
35°	1958.8	1962.9	1949.5	1922.9	1906.5	1906.5	1912.6	1935.2	1959.8	1979.3	1972.1
37.5°	2081.8	2086.9	2063.3	2031.5	2007.0	2007.0	2015.2	2038.7	2075.6	2103.3	2093.0
40°	2231.4	2238.6	2208.9	2176.1	2152.5	2148.4	2158.6	2185.3	2220.1	2255.0	2243.7
42.5°	2411.8	2420.0	2381.1	2352.4	2333.9	2333.9	2339.0	2363.6	2395.4	2438.5	2435.4
45°	2642.4	2656.8	2603.5	2574.8	2557.4	2561.5	2564.5	2586.1	2614.8	2664.0	2661.9
47.5°	2917.1	2931.5	2875.1	2845.4	2842.3	2861.8	2849.5	2864.9	2880.2	2936.6	2920.2
50°	3228.7	3253.4	3214.4	3212.4	3218.5	3254.4	3225.7	3233.9	3216.4	3252.3	3230.8
52.5°	3610.0	3645.9	3638.7	3651.0	3719.7	3793.5	3727.9	3699.2	3633.6	3644.9	3607.0
55°	4072.3	4126.6	4136.9	4210.7	4366.5	4517.2	4377.8	4262.0	4122.5	4096.9	4057.0
57.5°	4598.2	4641.2	4690.4	4841.1	5132.2	5399.7	5132.2	4875.9	4656.6	4604.3	4567.4
60°	5164.0	5217.2	5264.4	5486.8	5919.3	6295.4	5911.1	5504.2	5214.2	5143.4	5082.0
62.5°	5771.7	5840.3	5873.1	6120.2	6624.5	7073.4	6631.6	6138.6	5816.8	5740.9	5679.4
65°	6354.9	6411.3	6448.2	6711.6	7193.3	7643.3	7226.1	6740.3	6409.2	6309.8	6260.6
67.5°	6626.5	6657.3	6747.5	7045.7	7554.1	8067.7	7640.2	7077.5	6707.5	6533.2	6535.3
70°	6228.8	6166.3	6383.6	6861.2	7597.2	8328.0	7695.6	6846.9	6393.8	6110.9	6178.6
72.5°	4813.4	4705.8	5083.0	5899.8	7105.2	8162.0	7154.4	5945.9	5317.7	4743.7	4886.2
75°	2618.9	2496.9	3017.6	4050.8	5666.2	7074.4	5796.3	4166.6	3360.0	2599.4	2768.5
77.5°	739.0	692.9	1113.1	1959.8	3408.1	4967.2	3539.3	2002.8	1320.2	783.1	870.2
80°	226.5	219.4	297.2	590.4	1447.3	2379.0	1390.9	597.6	378.2	238.8	252.2
82.5°	134.3	123.0	147.6	215.2	369.0	747.2	358.7	224.5	180.4	121.0	131.2
85°	76.9	71.8	87.1	104.6	124.0	158.9	103.5	106.6	96.4	64.6	67.6
87.5°	31.8	28.7	33.8	32.8	28.7	36.9	27.7	32.8	38.9	25.6	23.6
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)