

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: P962473

Luminaire Tested: **NAV-SB2C-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962473
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-SB2C-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17008.9 lumens
Efficiency: N/A
Efficacy: 168.6 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): 100.9
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

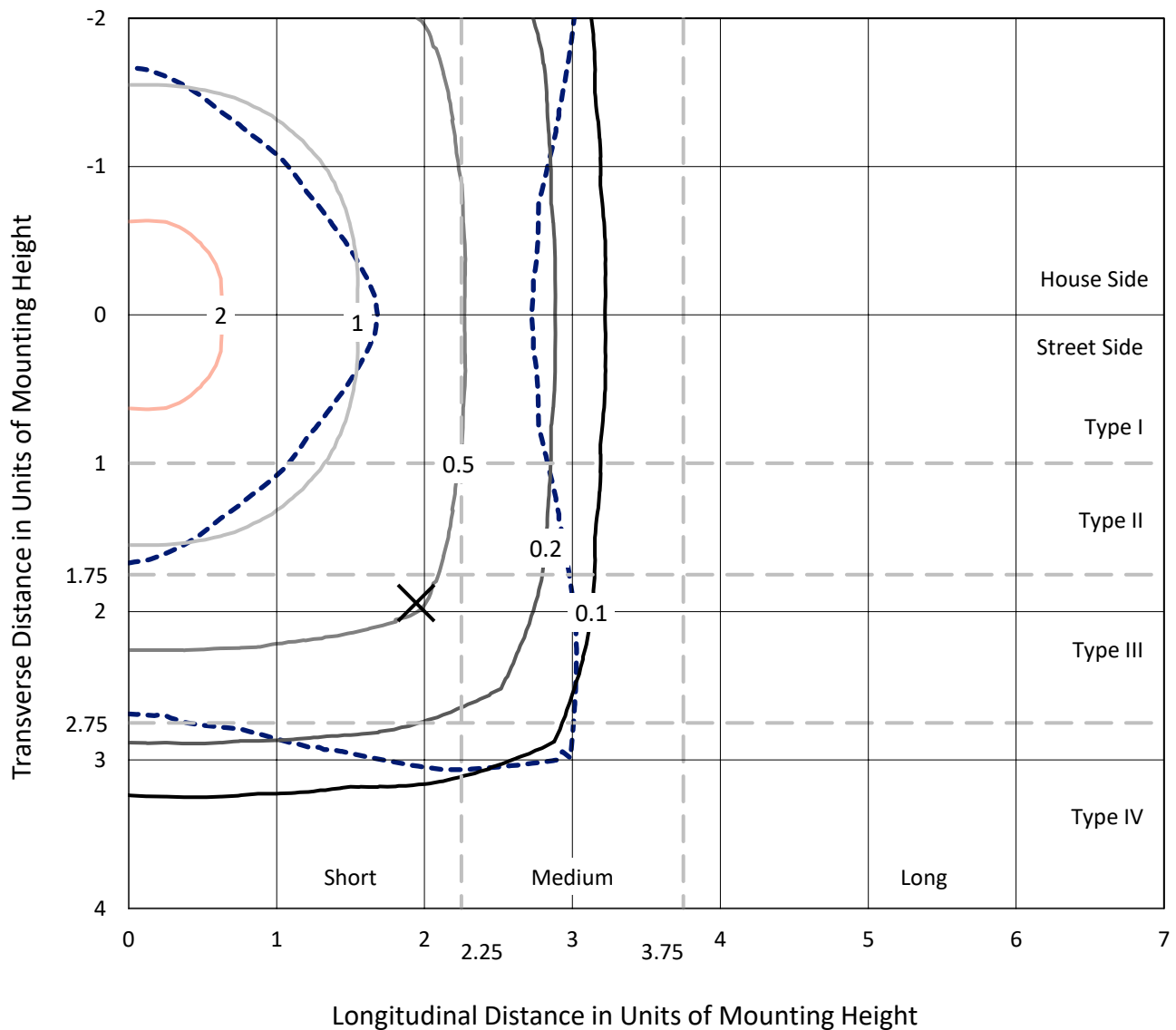


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Iso-Footcandle Lines of Horizontal Illumination

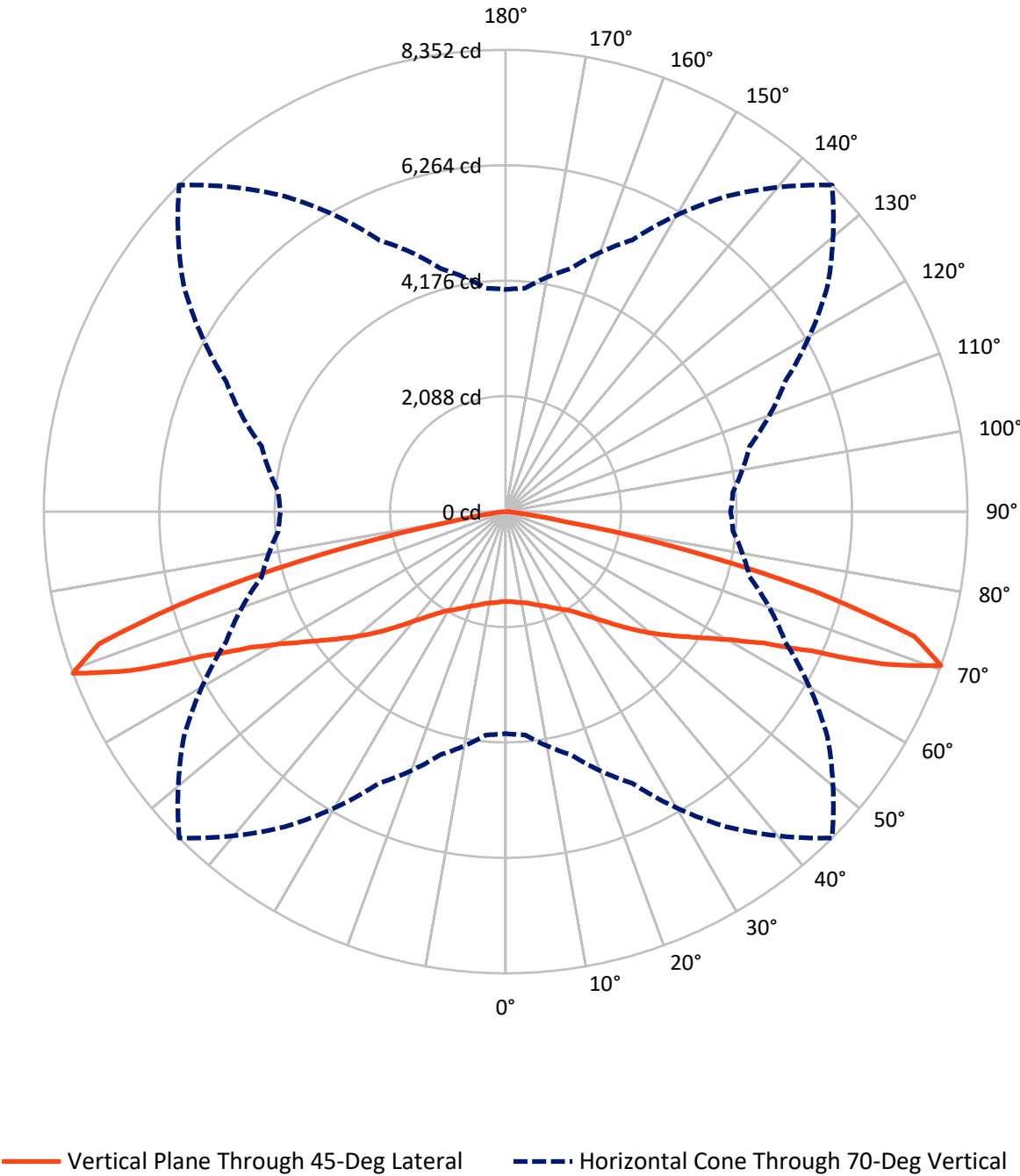
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	8504.4	0.0	8504.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8504.4	0.0	8504.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	17008.9	0.0	17008.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	0.9
10°-20°	490.8	2.9
20°-30°	877.2	5.2
30°-40°	1421.9	8.4
40°-50°	2316.0	13.6
50°-60°	3531.1	20.8
60°-70°	5253.1	30.9
70°-80°	2863.1	16.8
80°-90°	97.5	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°	17008.9	100.0
0°-180°	17008.9	100.0

Coefficient of Utilization



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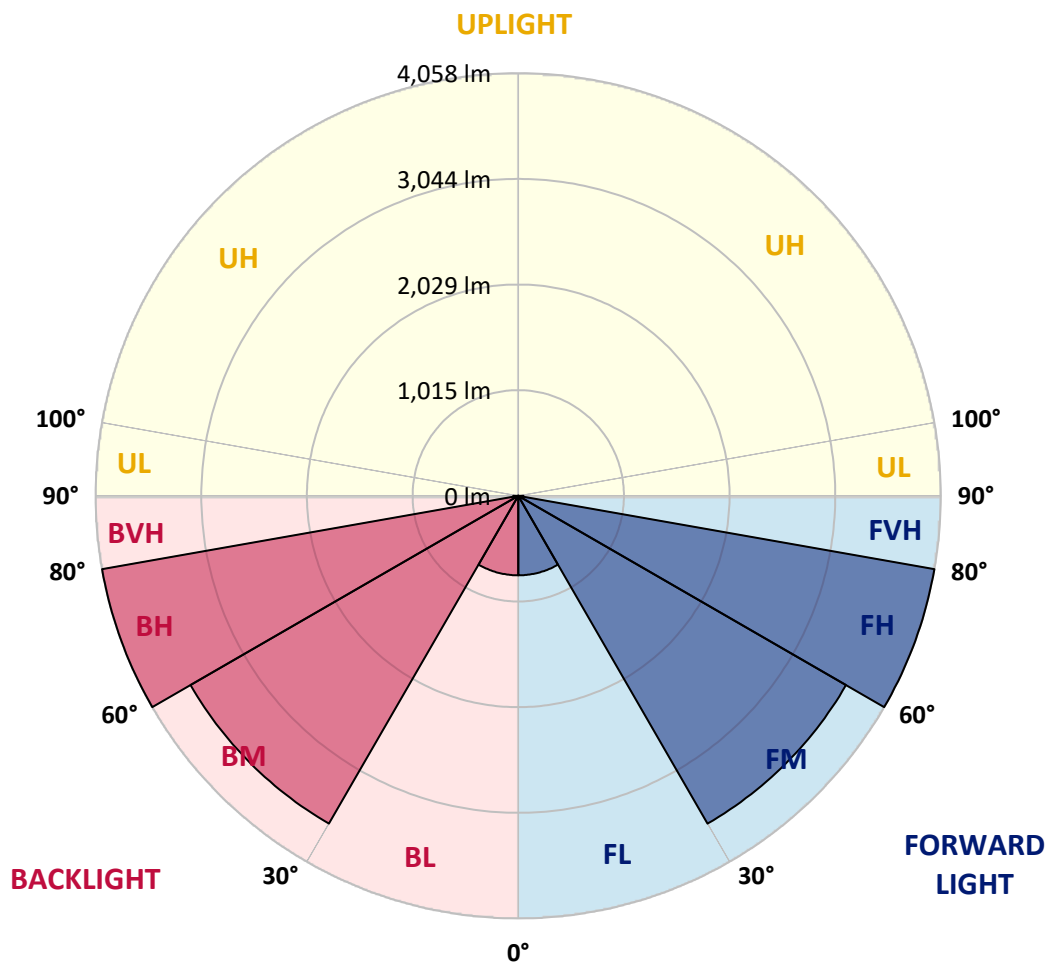
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	763.1	4.5			
FM	(30°-60°)	3634.4	21.4			
FH	(60°-80°)	4058.1	23.9			G2/5000
FVH	(80°-90°)	48.7	0.3			G1/100
BL	(0°-30°)	763.1	4.5	B2/1000		
BM	(30°-60°)	3634.4	21.4	B3/5000		
BH	(60°-80°)	4058.1	23.9	B4/5000		G2/5000
BVH	(80°-90°)	48.7	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°	1629.2	1629.2	1629.2	1629.2	1629.2	1629.2	1629.2	1629.2	1629.2	1629.2	1629.2
2.5°	1636.9	1638.7	1635.3	1633.5	1631.8	1629.2	1630.2	1634.4	1637.8	1636.9	1637.8
5°	1650.7	1652.3	1649.7	1648.9	1645.5	1644.6	1644.6	1648.9	1651.5	1649.7	1650.7
7.5°	1666.0	1668.6	1664.3	1663.5	1661.7	1660.0	1659.2	1663.5	1666.0	1666.0	1666.0
10°	1680.5	1683.0	1679.7	1677.1	1675.4	1675.4	1673.7	1677.1	1681.4	1680.5	1680.5
12.5°	1695.9	1697.6	1694.1	1692.5	1692.5	1695.0	1692.5	1694.1	1697.6	1695.9	1695.0
15°	1714.6	1715.5	1714.6	1717.2	1721.5	1730.0	1722.3	1720.7	1722.3	1718.1	1718.1
17.5°	1740.2	1742.0	1745.4	1751.4	1757.4	1772.7	1759.1	1754.8	1754.8	1746.3	1746.3
20°	1771.9	1774.5	1779.6	1789.9	1797.5	1812.0	1798.4	1792.4	1789.9	1778.7	1778.7
22.5°	1805.1	1809.4	1817.1	1830.8	1844.5	1858.1	1844.5	1834.2	1826.6	1812.0	1811.2
25°	1843.6	1848.7	1860.7	1882.9	1901.7	1921.3	1905.1	1884.6	1869.2	1848.7	1847.9
27.5°	1898.3	1904.2	1918.8	1946.1	1969.9	1987.1	1971.7	1945.2	1923.8	1899.1	1898.3
30°	1975.1	1981.1	1998.1	2027.2	2043.4	2054.5	2044.3	2023.8	1998.1	1969.9	1969.9
32.5°	2074.2	2081.9	2100.6	2128.0	2131.4	2133.1	2129.6	2119.4	2100.6	2066.5	2067.3
35°	2199.6	2208.3	2229.6	2251.8	2248.3	2251.8	2246.7	2243.2	2229.6	2190.3	2190.3
37.5°	2353.4	2363.6	2385.9	2402.9	2394.4	2390.1	2390.9	2391.8	2384.1	2340.6	2340.6
40°	2531.9	2545.5	2561.8	2579.7	2565.2	2552.4	2560.9	2567.7	2560.9	2516.5	2516.5
42.5°	2715.4	2735.1	2752.1	2777.7	2765.9	2749.6	2761.6	2769.2	2754.7	2706.9	2710.3
45°	2919.5	2938.4	2960.5	2998.9	2990.4	2973.3	2990.4	2992.1	2967.4	2911.0	2916.9
47.5°	3130.5	3150.1	3183.4	3234.6	3231.2	3212.5	3234.6	3222.7	3191.1	3123.6	3119.4
50°	3330.2	3357.6	3408.8	3480.6	3487.4	3464.3	3494.2	3471.2	3418.3	3333.7	3332.0
52.5°	3518.1	3547.2	3628.3	3725.7	3750.4	3720.5	3760.6	3720.5	3641.1	3532.7	3522.4
55°	3715.4	3747.8	3844.4	3971.6	4021.1	3998.9	4036.4	3975.9	3863.1	3731.6	3713.7
57.5°	3947.7	3967.3	4082.6	4233.8	4317.4	4322.5	4339.6	4237.1	4100.5	3951.1	3930.6
60°	4199.5	4226.9	4352.5	4533.5	4665.8	4708.5	4690.6	4538.6	4379.7	4208.1	4180.8
62.5°	4522.3	4552.2	4702.5	4919.4	5128.6	5234.5	5164.5	4944.2	4747.8	4542.0	4506.1
65°	4789.6	4822.9	5094.5	5481.3	5862.2	6074.8	5898.9	5493.3	5139.8	4849.4	4801.6
67.5°	4595.8	4636.8	5062.9	5773.3	6720.3	7354.8	6752.8	5860.4	5167.9	4774.2	4715.3
70°	4016.8	4055.2	4552.2	5420.6	6962.0	8352.1	7107.1	5580.3	4568.4	4127.9	4068.9
72.5°	2666.7	2790.6	3293.5	4335.3	6216.5	7728.8	6278.0	4247.4	3055.3	2660.8	2574.6
75°	884.7	983.7	1327.0	2247.5	4163.7	5780.2	3963.9	1988.8	1051.1	756.6	715.6
77.5°	222.8	257.1	354.3	643.0	1660.9	3291.0	1495.2	525.1	286.1	199.8	178.5
80°	108.4	119.5	170.8	214.3	415.8	1046.0	390.2	201.5	134.9	104.1	95.6
82.5°	59.8	60.6	96.5	121.3	154.6	270.7	160.5	117.9	77.7	63.1	63.1
85°	36.7	35.9	51.2	64.9	64.9	96.5	76.9	64.9	44.4	39.3	41.0
87.5°	14.6	14.6	18.8	20.5	17.9	24.8	19.7	21.3	17.1	16.2	17.1
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)