

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: P883582

Luminaire Tested: **NAV-SB4A-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18101 lumens
Efficiency: N/A
Efficacy: 158.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

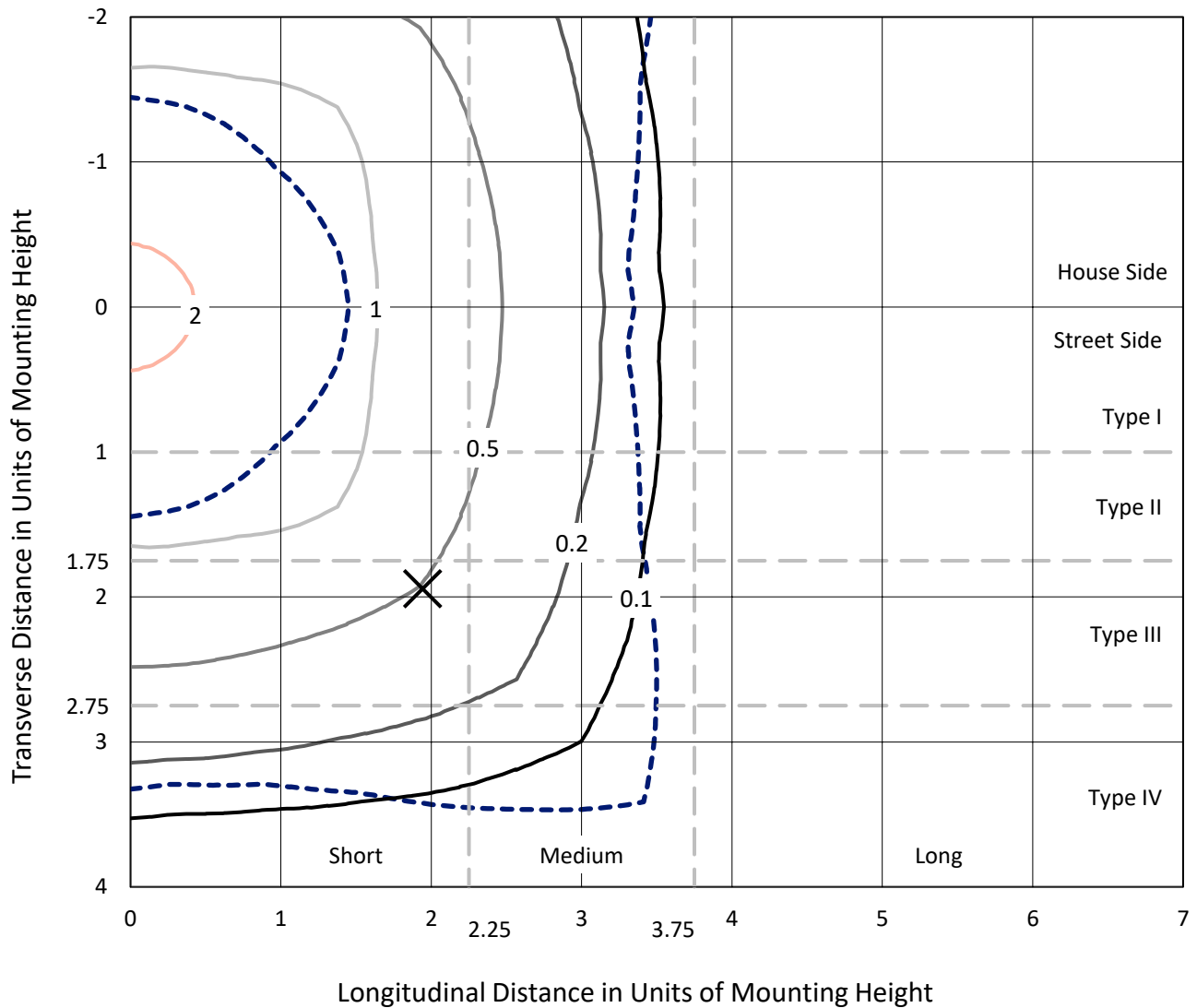
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

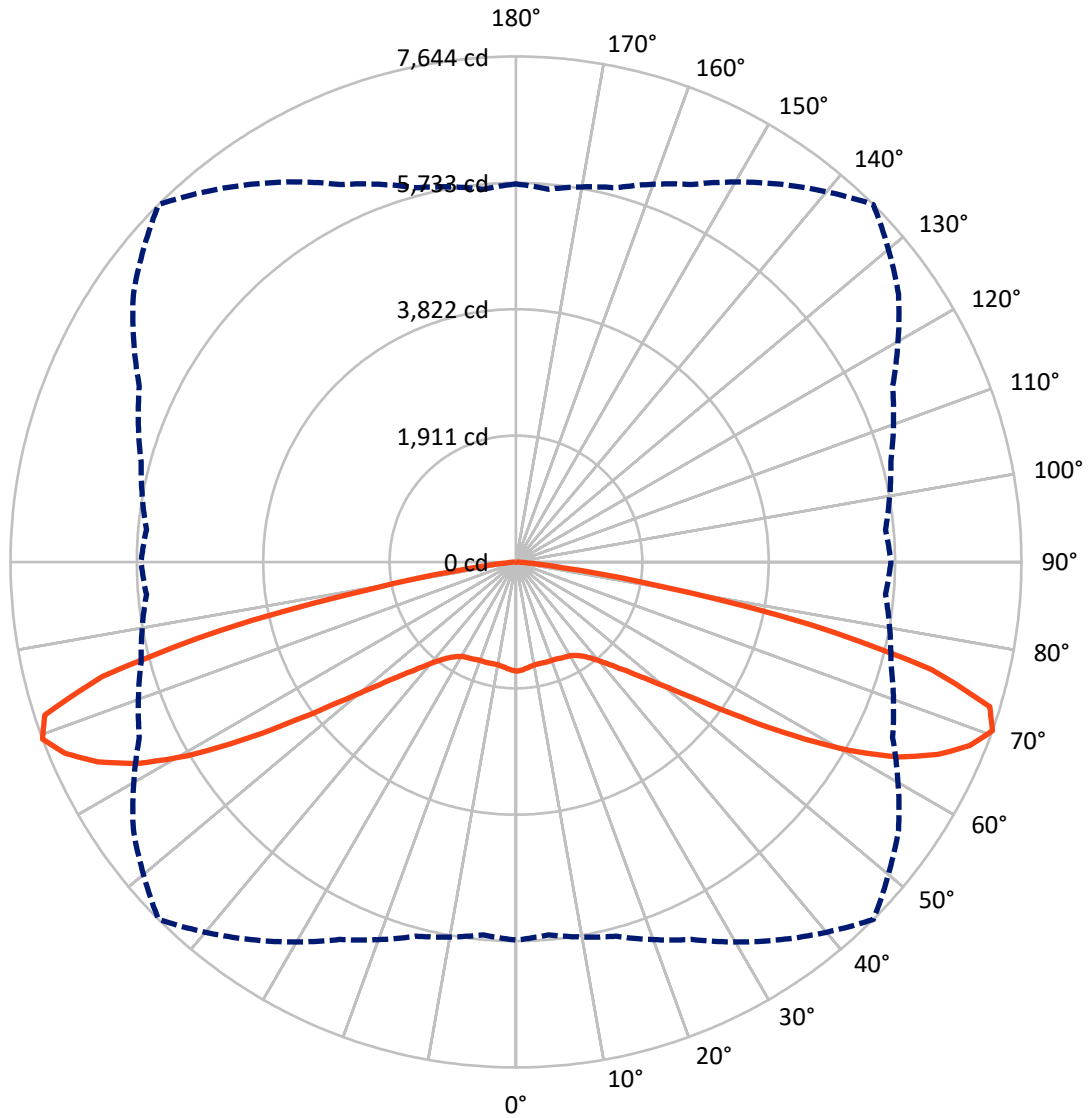
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9050.5	0.0	9050.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9050.5	0.0	9050.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18101.0	0.0	18101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	0.8
10°-20°	451.0	2.5
20°-30°	750.5	4.1
30°-40°	1135.0	6.3
40°-50°	1886.2	10.4
50°-60°	3559.1	19.7
60°-70°	6009.7	33.2
70°-80°	3949.0	21.8
80°-90°	206.9	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°	18101.0	100.0
0°-180°	18101.0	100.0

Coefficient of Utilization



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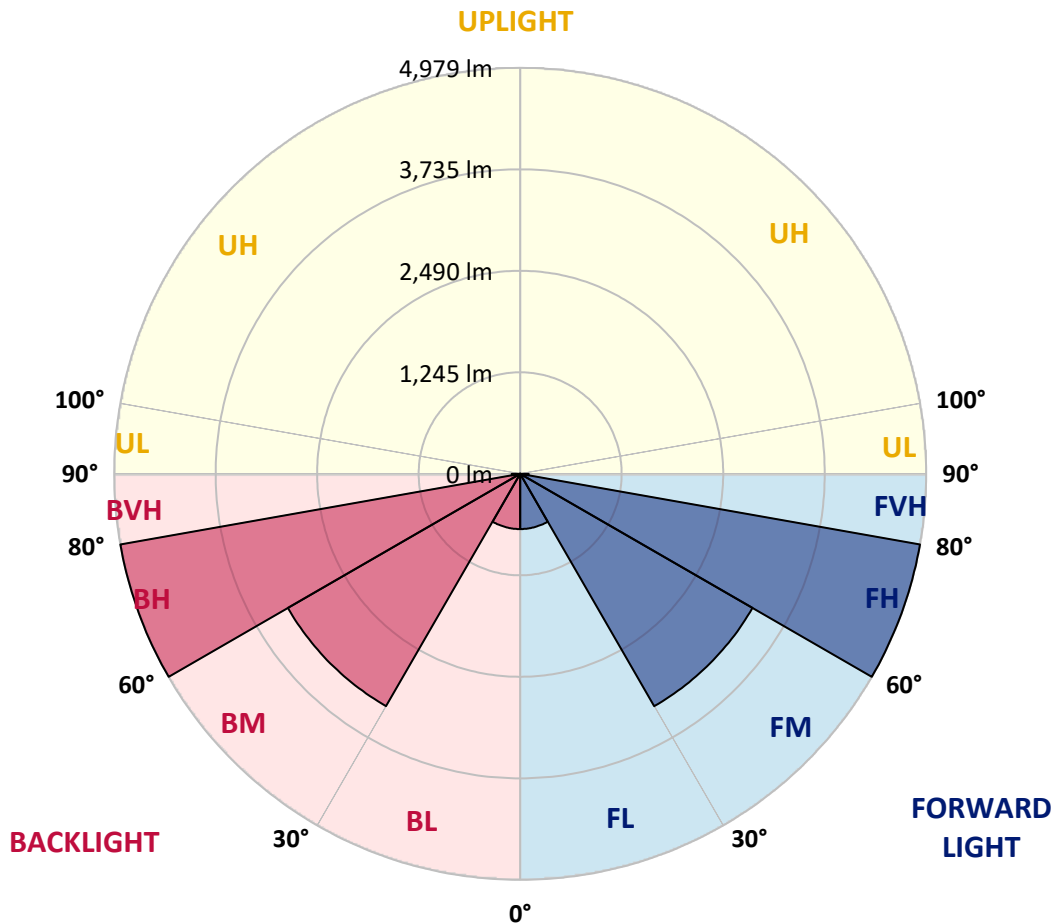
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.6	3.7			
FM (30°-60°)	3290.1	18.2			
FH (60°-80°)	4979.3	27.5			G2/5000
FVH (80°-90°)	103.4	0.6			G2/225
BL (0°-30°)	677.6	3.7	B2/1000		
BM (30°-60°)	3290.1	18.2	B3/5000		
BH (60°-80°)	4979.3	27.5	B4/5000		G2/5000
BVH (80°-90°)	103.4	0.6			G2/225
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°	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2
2.5°	1640.8	1645.5	1643.6	1639.9	1639.9	1637.1	1639.9	1641.8	1644.6	1646.5	1645.5
5°	1619.2	1623.0	1622.0	1619.2	1620.1	1617.3	1619.2	1622.0	1623.9	1624.8	1624.8
7.5°	1600.4	1604.1	1602.3	1597.5	1597.5	1594.7	1595.7	1598.5	1601.3	1602.3	1602.3
10°	1595.7	1599.4	1593.8	1586.3	1583.4	1579.7	1580.6	1583.4	1589.1	1591.9	1591.9
12.5°	1597.5	1600.4	1594.7	1583.4	1580.6	1576.8	1576.8	1579.7	1587.2	1591.0	1591.9
15°	1603.2	1606.0	1597.5	1585.3	1582.5	1579.7	1578.7	1582.5	1591.0	1597.5	1598.5
17.5°	1613.5	1616.4	1603.2	1586.3	1582.5	1583.4	1582.5	1585.3	1598.5	1610.7	1610.7
20°	1623.0	1624.8	1607.0	1586.3	1582.5	1583.4	1582.5	1588.1	1605.1	1622.0	1623.0
22.5°	1625.8	1627.7	1610.7	1592.8	1590.0	1591.0	1590.0	1595.7	1611.7	1628.6	1628.6
25°	1626.7	1629.5	1616.4	1602.3	1607.0	1608.8	1607.0	1607.9	1620.1	1635.2	1634.2
27.5°	1640.8	1644.6	1632.4	1620.1	1623.0	1622.0	1624.8	1627.7	1637.1	1652.1	1648.4
30°	1670.0	1672.8	1662.5	1650.2	1648.4	1641.8	1650.2	1659.6	1670.0	1683.2	1680.3
32.5°	1718.0	1723.6	1710.4	1697.3	1688.8	1685.0	1691.6	1707.6	1721.7	1735.9	1730.2
35°	1797.9	1801.7	1789.5	1765.0	1750.0	1750.0	1755.6	1776.3	1798.9	1816.8	1810.2
37.5°	1910.8	1915.6	1893.9	1864.7	1842.2	1842.2	1849.7	1871.3	1905.2	1930.6	1921.2
40°	2048.2	2054.8	2027.5	1997.4	1975.8	1972.0	1981.4	2005.9	2037.9	2069.8	2059.5
42.5°	2213.8	2221.3	2185.6	2159.2	2142.3	2142.3	2147.0	2169.6	2198.7	2238.3	2235.4
45°	2425.5	2438.7	2389.7	2363.4	2347.4	2351.2	2354.0	2373.7	2400.1	2445.2	2443.4
47.5°	2677.6	2690.8	2639.1	2611.8	2609.0	2626.8	2615.5	2629.7	2643.8	2695.5	2680.5
50°	2963.6	2986.2	2950.5	2948.6	2954.2	2987.2	2960.8	2968.4	2952.4	2985.3	2965.5
52.5°	3313.6	3346.6	3340.0	3351.3	3414.3	3482.1	3421.8	3395.5	3335.3	3345.6	3310.8
55°	3738.0	3787.8	3797.2	3865.0	4008.0	4146.3	4018.3	3912.0	3784.1	3760.5	3723.8
57.5°	4220.6	4260.1	4305.3	4443.6	4710.8	4956.3	4710.8	4475.6	4274.2	4226.3	4192.4
60°	4740.0	4788.9	4832.2	5036.3	5433.4	5778.6	5425.8	5052.3	4786.1	4721.1	4664.7
62.5°	5297.9	5360.9	5391.0	5617.8	6080.7	6492.7	6087.2	5634.7	5339.3	5269.6	5213.2
65°	5833.2	5885.0	5918.8	6160.6	6602.8	7015.9	6632.9	6187.0	5883.1	5791.8	5746.7
67.5°	6082.5	6110.8	6193.6	6467.3	6934.0	7405.4	7013.0	6496.5	6156.9	5996.9	5998.8
70°	5717.5	5660.1	5859.6	6298.0	6973.5	7644.3	7063.8	6284.8	5869.0	5609.3	5671.4
72.5°	4418.2	4319.4	4665.6	5415.5	6521.9	7491.9	6567.1	5457.8	4881.1	4354.2	4485.0
75°	2403.8	2291.9	2769.8	3718.2	5201.0	6493.7	5320.5	3824.5	3084.1	2386.0	2541.2
77.5°	678.3	636.0	1021.8	1798.9	3128.3	4559.3	3248.7	1838.4	1211.8	718.8	798.8
80°	207.9	201.3	272.8	541.9	1328.5	2183.7	1276.7	548.5	347.2	219.2	231.4
82.5°	123.3	112.9	135.5	197.6	338.7	685.9	329.3	206.0	165.6	111.0	120.4
85°	70.6	65.9	80.0	96.0	113.8	145.8	95.0	97.8	88.4	59.3	62.1
87.5°	29.2	26.3	31.0	30.1	26.3	33.9	25.4	30.1	35.8	23.5	21.6
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)