

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: P883732

Luminaire Tested: **NAV-SB4B-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883732
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-SB4B-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18394 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

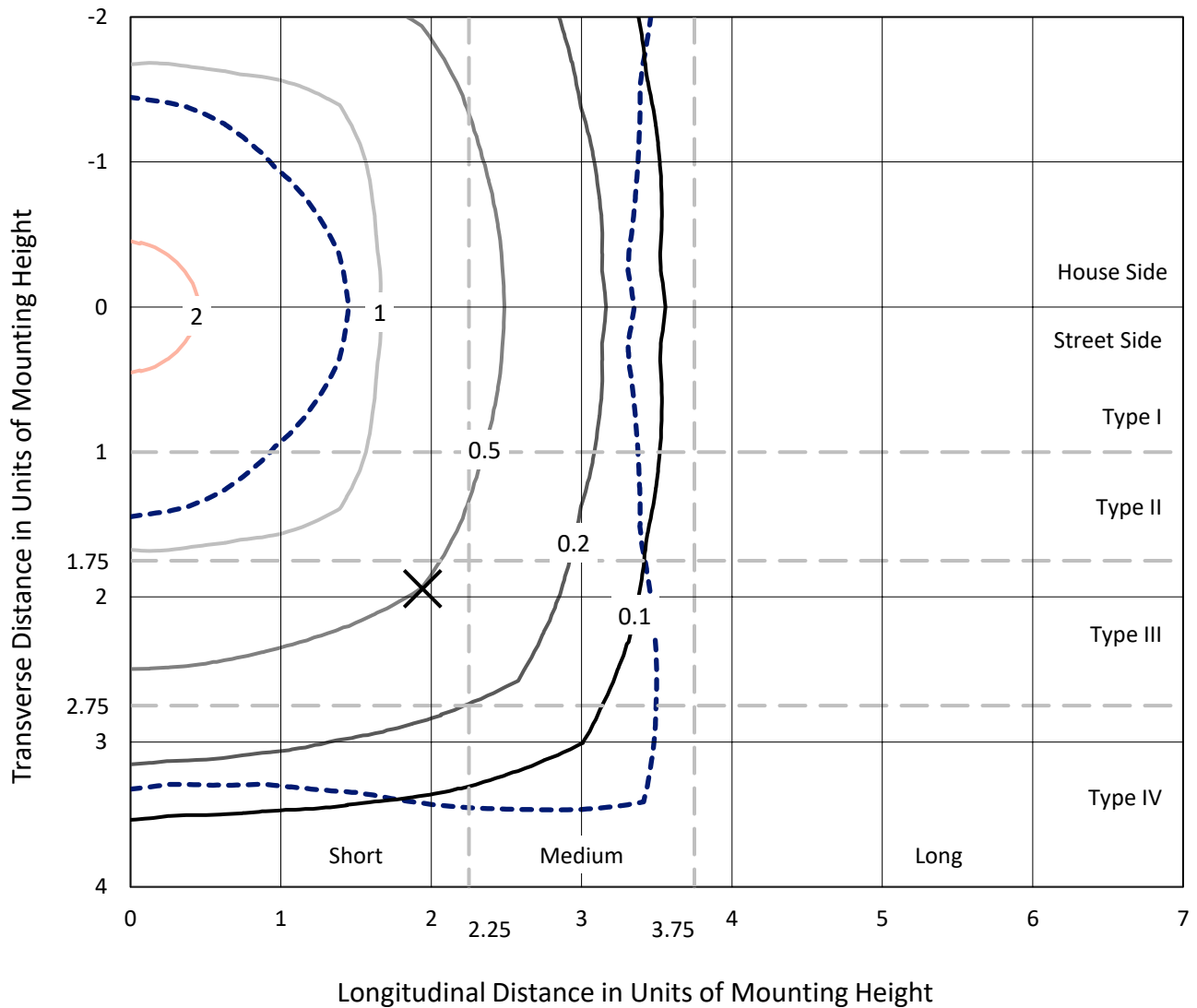
Input Watts (W): 147
Input Voltage (V): 120.0
Input Current (Ain): 1.255
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

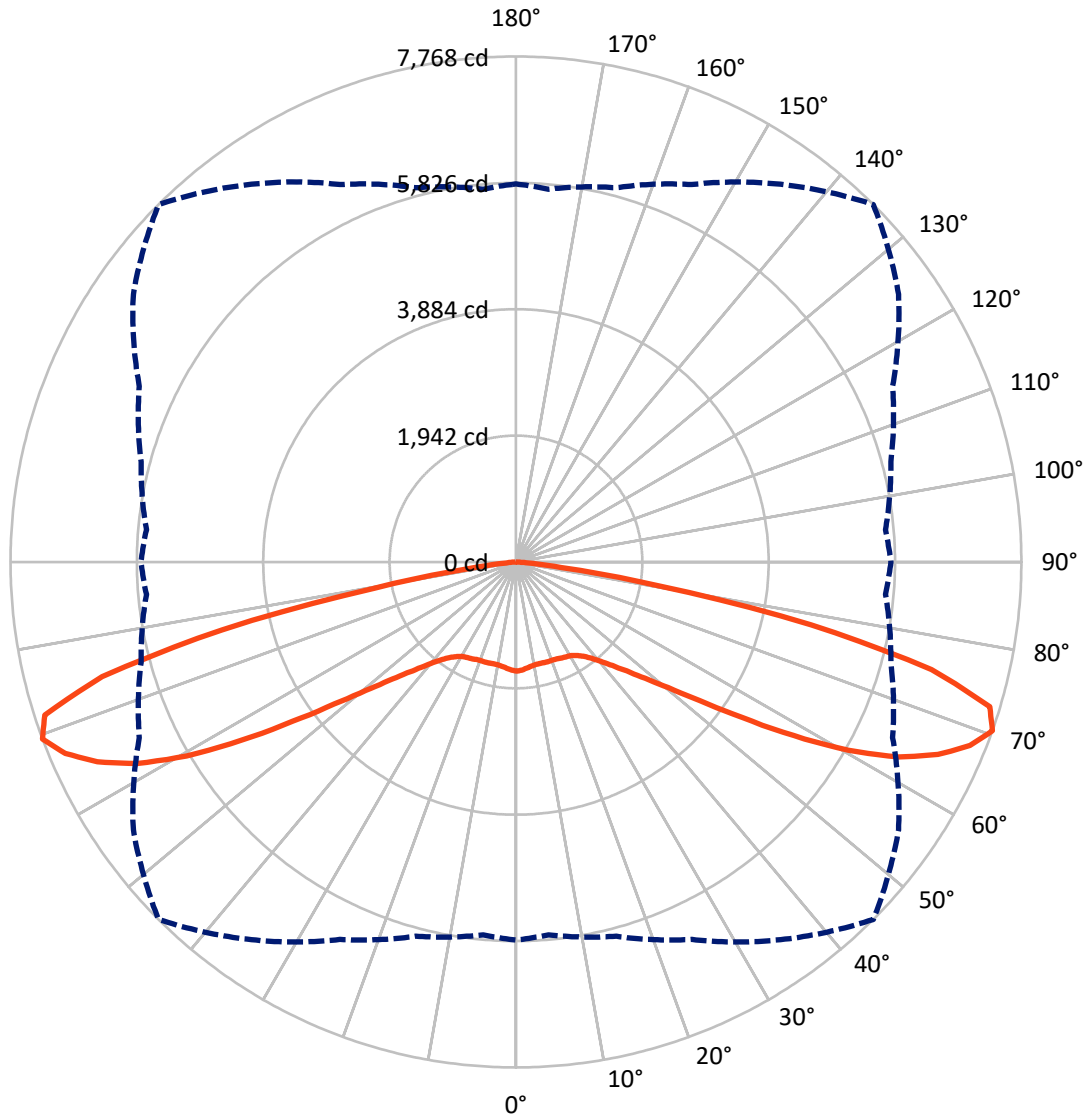
✕ Max cd
 - - - 1/2 Max cd



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	9197.0	0.0	9197.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9197.0	0.0	9197.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18394.0	0.0	18394.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	0.8
10°-20°	458.3	2.5
20°-30°	762.7	4.1
30°-40°	1153.4	6.3
40°-50°	1916.7	10.4
50°-60°	3616.7	19.7
60°-70°	6107.0	33.2
70°-80°	4012.9	21.8
80°-90°	210.2	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°	18394.0	100.0
0°-180°	18394.0	100.0



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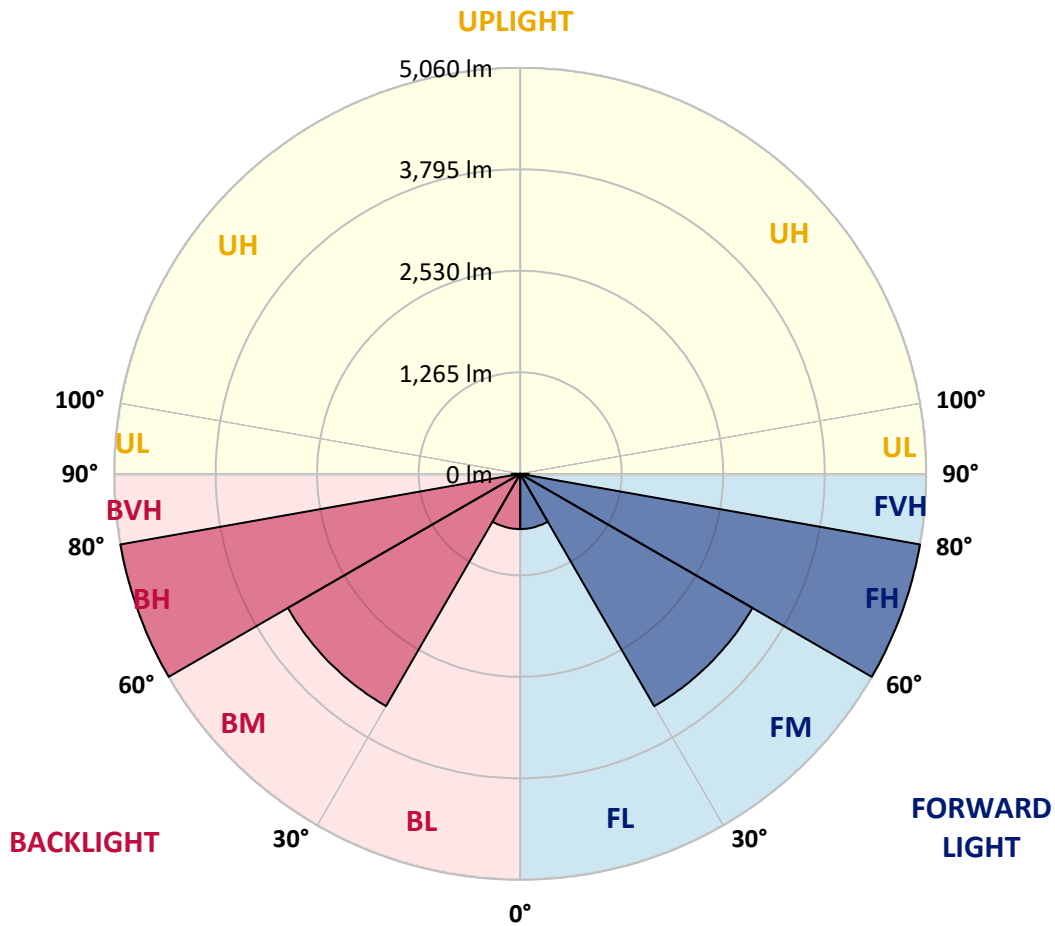
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	688.5	3.7			
FM (30°-60°)	3343.4	18.2			
FH (60°-80°)	5059.9	27.5			G3/7500
FVH (80°-90°)	105.1	0.6			G2/225
BL (0°-30°)	688.5	3.7	B2/1000		
BM (30°-60°)	3343.4	18.2	B3/5000		
BH (60°-80°)	5059.9	27.5	B5		G3/7500
BVH (80°-90°)	105.1	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°	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9	1677.9
2.5°	1667.4	1672.2	1670.3	1666.4	1666.4	1666.4	1666.4	1668.3	1671.2	1673.1	1672.2
5°	1645.4	1649.2	1648.3	1645.4	1646.4	1646.4	1645.4	1648.3	1650.2	1651.1	1651.1
7.5°	1626.3	1630.1	1628.2	1623.4	1623.4	1623.4	1621.5	1624.4	1627.2	1628.2	1628.2
10°	1621.5	1625.3	1619.6	1611.9	1609.1	1609.1	1606.2	1609.1	1614.8	1617.7	1617.7
12.5°	1623.4	1626.3	1620.5	1609.1	1606.2	1602.4	1602.4	1605.2	1612.9	1616.7	1617.7
15°	1629.1	1632.0	1623.4	1611.0	1608.1	1605.2	1604.3	1608.1	1616.7	1623.4	1624.4
17.5°	1639.7	1642.5	1629.1	1611.9	1608.1	1609.1	1608.1	1611.0	1624.4	1636.8	1636.8
20°	1649.2	1651.1	1633.0	1611.9	1608.1	1609.1	1608.1	1613.8	1631.1	1648.3	1649.2
22.5°	1652.1	1654.0	1636.8	1618.6	1615.8	1616.7	1615.8	1621.5	1637.7	1655.0	1655.0
25°	1653.0	1655.9	1642.5	1628.2	1633.0	1634.9	1633.0	1633.9	1646.4	1661.6	1660.7
27.5°	1667.4	1671.2	1658.8	1646.4	1649.2	1648.3	1651.1	1654.0	1663.6	1678.9	1675.0
30°	1697.0	1699.9	1689.4	1676.9	1675.0	1668.3	1676.9	1686.5	1697.0	1710.4	1707.5
32.5°	1745.8	1751.5	1738.1	1724.8	1716.1	1712.3	1719.0	1735.3	1749.6	1763.9	1758.2
35°	1827.1	1830.9	1818.4	1793.6	1778.3	1778.3	1784.0	1805.1	1828.0	1846.2	1839.5
37.5°	1941.8	1946.6	1924.6	1894.9	1872.0	1872.0	1879.6	1901.6	1936.0	1961.9	1952.3
40°	2081.4	2088.1	2060.3	2029.7	2007.7	2003.9	2013.5	2038.3	2070.8	2103.4	2092.8
42.5°	2249.6	2257.3	2221.0	2194.2	2177.0	2177.0	2181.8	2204.7	2234.3	2274.5	2271.6
45°	2464.7	2478.1	2428.4	2401.6	2385.4	2389.2	2392.1	2412.2	2438.9	2484.8	2482.9
47.5°	2721.0	2734.4	2681.8	2654.1	2651.2	2669.3	2657.9	2672.2	2686.6	2739.1	2723.8
50°	3011.6	3034.6	2998.2	2996.3	3002.1	3035.5	3008.8	3016.4	3000.1	3033.6	3013.5
52.5°	3367.3	3400.7	3394.0	3405.5	3469.6	3538.4	3477.2	3450.5	3389.3	3399.8	3364.4
55°	3798.5	3849.1	3858.7	3927.5	4072.9	4213.4	4083.4	3975.3	3845.3	3821.4	3784.1
57.5°	4288.9	4329.1	4375.0	4515.5	4787.0	5036.6	4787.0	4548.0	4343.4	4294.7	4260.2
60°	4816.7	4866.4	4910.4	5117.8	5521.3	5872.2	5513.7	5134.1	4863.5	4797.6	4740.2
62.5°	5383.6	5447.7	5478.3	5708.7	6179.1	6597.8	6185.8	5725.9	5425.7	5354.9	5297.6
65°	5927.6	5980.2	6014.6	6260.3	6709.7	7129.4	6740.3	6287.1	5978.3	5885.6	5839.7
67.5°	6181.0	6209.7	6293.8	6572.0	7046.2	7525.2	7126.5	6601.7	6256.5	6094.0	6095.9
70°	5810.0	5751.7	5954.4	6399.9	7086.4	7768.1	7178.2	6386.5	5964.0	5700.1	5763.2
72.5°	4489.7	4389.3	4741.2	5503.1	6627.5	7613.2	6673.4	5546.2	4960.1	4424.7	4557.6
75°	2442.8	2329.0	2814.7	3778.4	5285.2	6598.8	5406.6	3886.4	3134.0	2424.6	2582.3
77.5°	689.3	646.3	1038.3	1828.0	3178.9	4633.1	3301.3	1868.2	1231.4	730.4	811.7
80°	211.3	204.6	277.3	550.7	1350.0	2219.0	1297.4	557.4	352.8	222.8	235.2
82.5°	125.2	114.7	137.7	200.8	344.2	697.0	334.6	209.4	168.3	112.8	122.4
85°	71.7	66.9	81.3	97.5	115.7	148.2	96.6	99.4	89.9	60.2	63.1
87.5°	29.6	26.8	31.6	30.6	26.8	34.4	25.8	30.6	36.3	23.9	22.0
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)