

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: P965761

Luminaire Tested: **NAV-SB4A-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965761
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-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16748.5 lumens
Efficiency: N/A
Efficacy: 146.9 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): 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



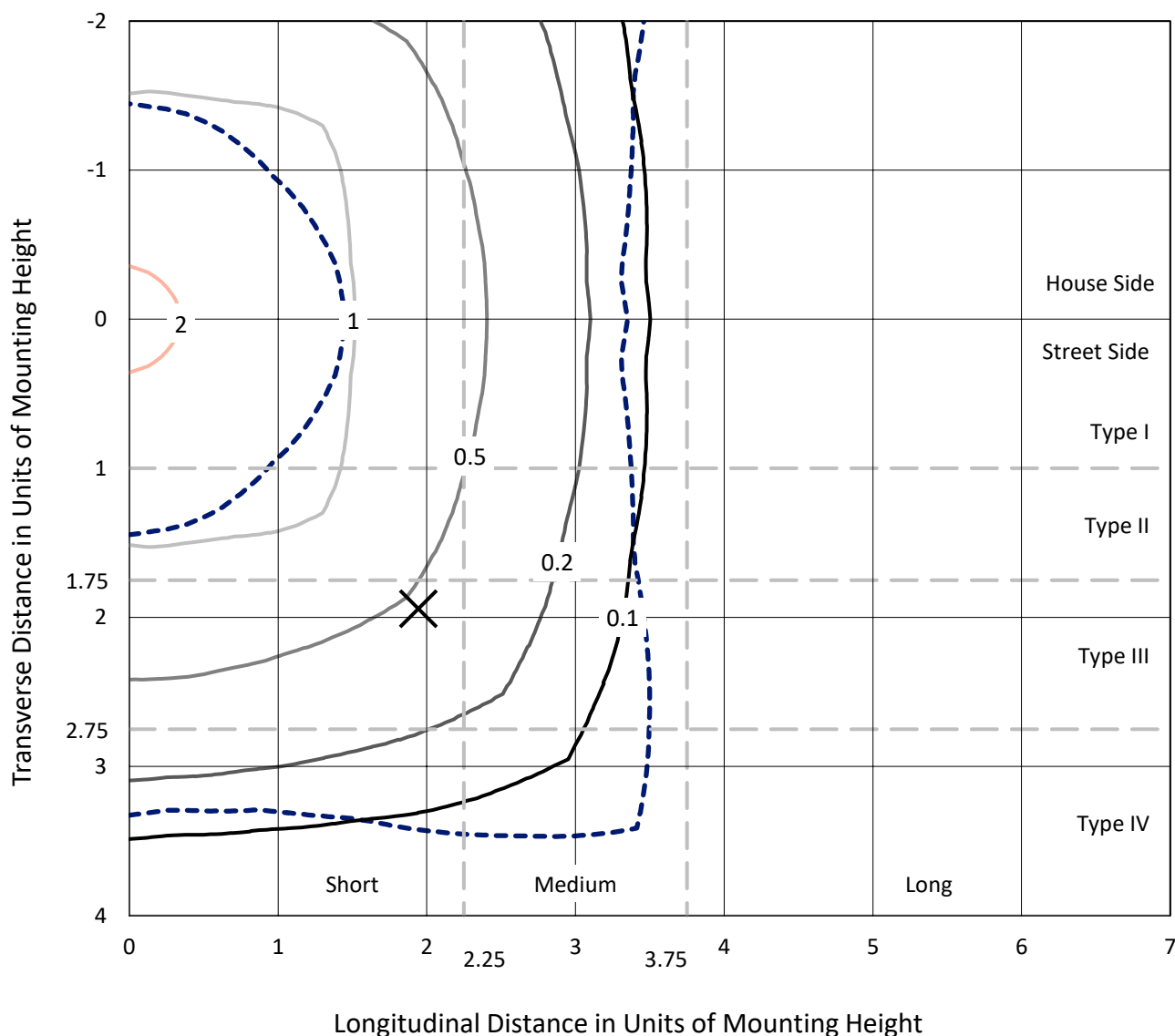
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

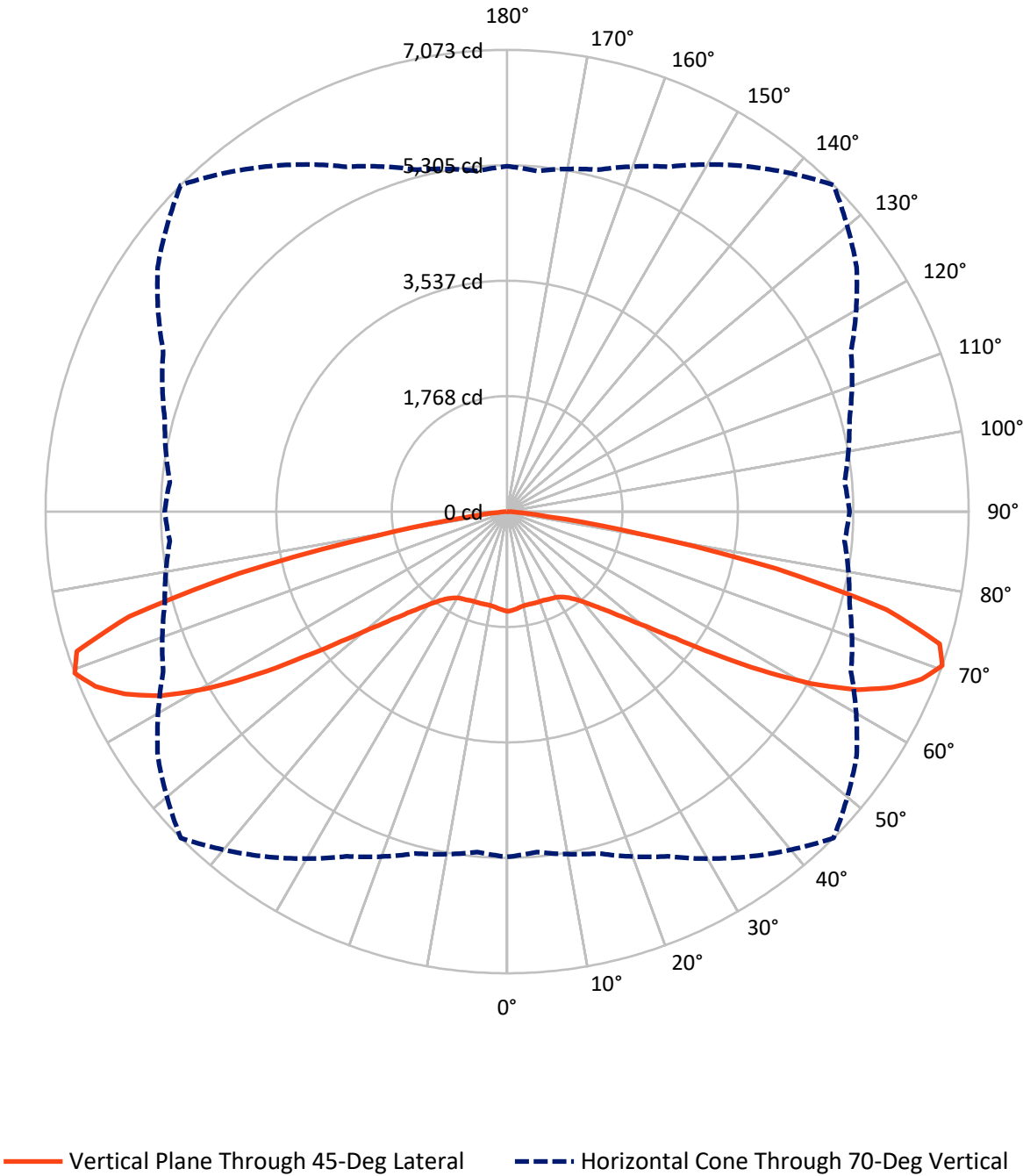


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc

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	8374.2	0.0	8374.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8374.2	0.0	8374.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	16748.5	0.0	16748.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	0.8
10°-20°	417.3	2.5
20°-30°	694.5	4.1
30°-40°	1050.2	6.3
40°-50°	1745.2	10.4
50°-60°	3293.2	19.7
60°-70°	5560.6	33.2
70°-80°	3653.9	21.8
80°-90°	191.4	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°	16748.5	100.0
0°-180°	16748.5	100.0

Coefficient of Utilization



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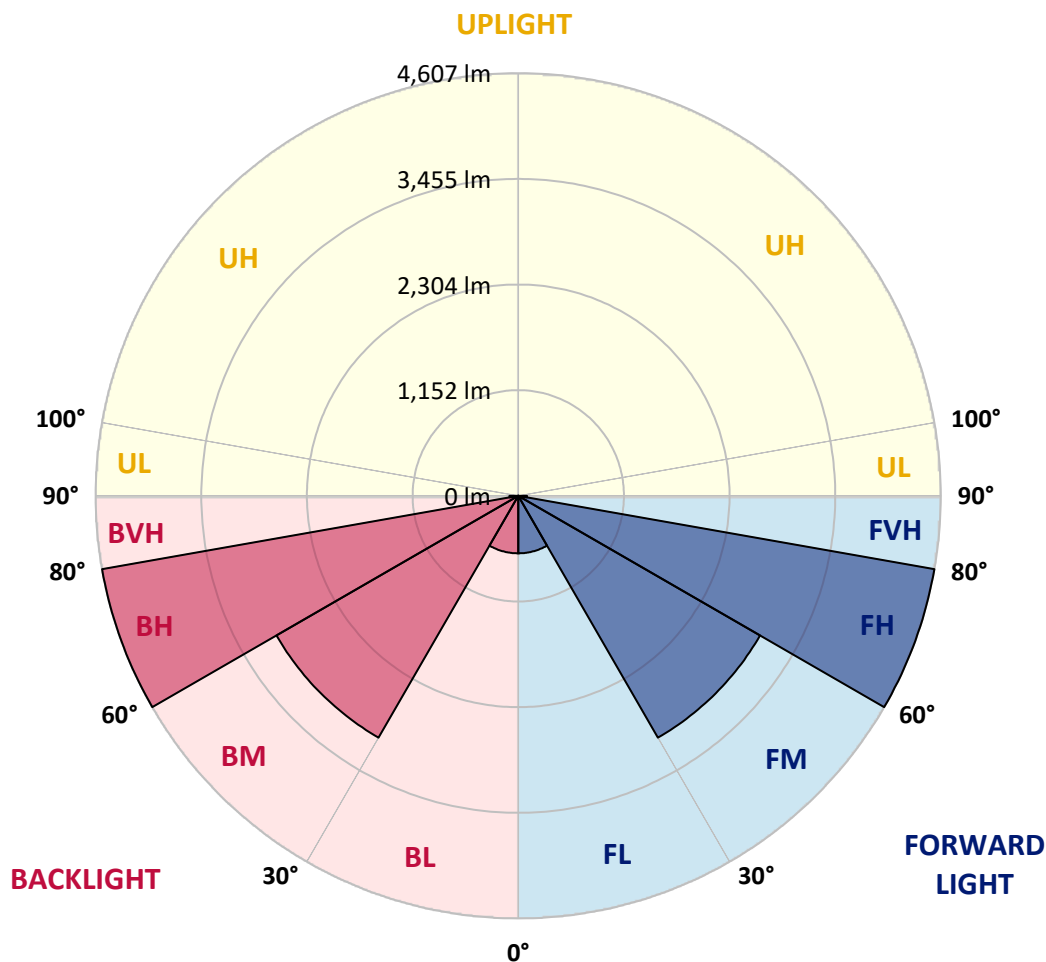
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	626.9	3.7			
FM	(30°-60°)	3044.3	18.2			
FH	(60°-80°)	4607.3	27.5			G2/5000
FVH	(80°-90°)	95.7	0.6			G1/100
BL	(0°-30°)	626.9	3.7	B2/1000		
BM	(30°-60°)	3044.3	18.2	B3/5000		
BH	(60°-80°)	4607.3	27.5	B4/5000		G2/5000
BVH	(80°-90°)	95.7	0.6			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°	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8
2.5°	1518.2	1522.5	1520.8	1517.3	1517.3	1514.7	1517.3	1519.0	1521.7	1523.5	1522.5
5°	1498.2	1501.7	1500.8	1498.2	1499.1	1496.5	1498.2	1500.8	1502.5	1503.5	1503.5
7.5°	1480.8	1484.3	1482.6	1478.2	1478.2	1475.6	1476.4	1479.1	1481.6	1482.6	1482.6
10°	1476.4	1479.9	1474.7	1467.7	1465.1	1461.6	1462.5	1465.1	1470.4	1472.9	1472.9
12.5°	1478.2	1480.8	1475.6	1465.1	1462.5	1459.0	1459.0	1461.6	1468.6	1472.1	1472.9
15°	1483.4	1486.0	1478.2	1466.9	1464.2	1461.6	1460.7	1464.2	1472.1	1478.2	1479.1
17.5°	1493.0	1495.6	1483.4	1467.7	1464.2	1465.1	1464.2	1466.9	1479.1	1490.4	1490.4
20°	1501.7	1503.5	1486.9	1467.7	1464.2	1465.1	1464.2	1469.4	1485.1	1500.8	1501.7
22.5°	1504.3	1506.0	1490.4	1473.8	1471.2	1472.1	1471.2	1476.4	1491.3	1507.0	1507.0
25°	1505.2	1507.8	1495.6	1482.6	1486.9	1488.6	1486.9	1487.8	1499.1	1513.0	1512.1
27.5°	1518.2	1521.7	1510.4	1499.1	1501.7	1500.8	1503.5	1506.0	1514.7	1528.7	1525.2
30°	1545.2	1547.9	1538.2	1526.9	1525.2	1519.0	1526.9	1535.7	1545.2	1557.4	1554.8
32.5°	1589.6	1594.8	1582.6	1570.5	1562.6	1559.1	1565.3	1580.0	1593.1	1606.2	1600.9
35°	1663.6	1667.1	1655.8	1633.1	1619.2	1619.2	1624.4	1643.6	1664.5	1681.0	1675.0
37.5°	1768.0	1772.4	1752.4	1725.4	1704.5	1704.5	1711.4	1731.5	1762.9	1786.4	1777.7
40°	1895.1	1901.3	1876.1	1848.2	1828.1	1824.7	1833.3	1856.0	1885.6	1915.2	1905.6
42.5°	2048.4	2055.3	2022.2	1997.9	1982.2	1982.2	1986.6	2007.5	2034.4	2071.0	2068.4
45°	2244.2	2256.4	2211.1	2186.8	2172.0	2175.5	2178.1	2196.4	2220.8	2262.6	2260.8
47.5°	2477.5	2489.7	2441.9	2416.6	2414.0	2430.6	2420.1	2433.1	2446.3	2494.1	2480.2
50°	2742.2	2763.1	2730.0	2728.2	2733.5	2764.0	2739.6	2746.6	2731.7	2762.3	2743.9
52.5°	3066.1	3096.5	3090.4	3100.8	3159.2	3221.9	3166.1	3141.8	3086.1	3095.6	3063.4
55°	3458.7	3504.8	3513.5	3576.2	3708.6	3836.5	3718.1	3619.7	3501.3	3479.6	3445.6
57.5°	3905.2	3941.8	3983.6	4111.6	4358.8	4586.1	4358.8	4141.2	3954.9	3910.5	3879.1
60°	4385.8	4431.1	4471.2	4660.1	5027.4	5346.9	5020.4	4674.8	4428.4	4368.3	4316.2
62.5°	4902.1	4960.4	4988.2	5198.0	5626.3	6007.6	5632.4	5213.7	4940.3	4875.9	4823.6
65°	5397.3	5445.2	5476.6	5700.3	6109.4	6491.6	6137.3	5724.7	5443.5	5359.0	5317.3
67.5°	5628.1	5654.2	5730.8	5984.1	6415.9	6852.0	6489.0	6011.1	5696.8	5548.8	5550.6
70°	5290.2	5237.1	5421.7	5827.4	6452.5	7073.1	6536.0	5815.2	5430.4	5190.2	5247.6
72.5°	4088.1	3996.7	4317.0	5010.8	6034.6	6932.1	6076.4	5050.0	4516.4	4028.9	4149.9
75°	2224.2	2120.6	2562.9	3440.4	4812.4	6008.4	4922.9	3538.7	2853.6	2207.6	2351.4
77.5°	627.7	588.5	945.4	1664.5	2894.6	4218.7	3006.0	1701.0	1121.2	665.1	739.1
80°	192.4	186.3	252.5	501.4	1229.2	2020.5	1181.3	507.5	321.2	202.8	214.1
82.5°	114.1	104.4	125.4	182.9	313.4	634.6	304.7	190.6	153.2	102.7	111.4
85°	65.3	61.0	74.0	88.8	105.4	134.9	87.9	90.5	81.8	54.8	57.5
87.5°	27.0	24.4	28.7	27.9	24.4	31.4	23.5	27.9	33.1	21.7	20.0
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)