

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: P883572

Luminaire Tested: **NAV-SB4A-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883572
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-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 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: 16664 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

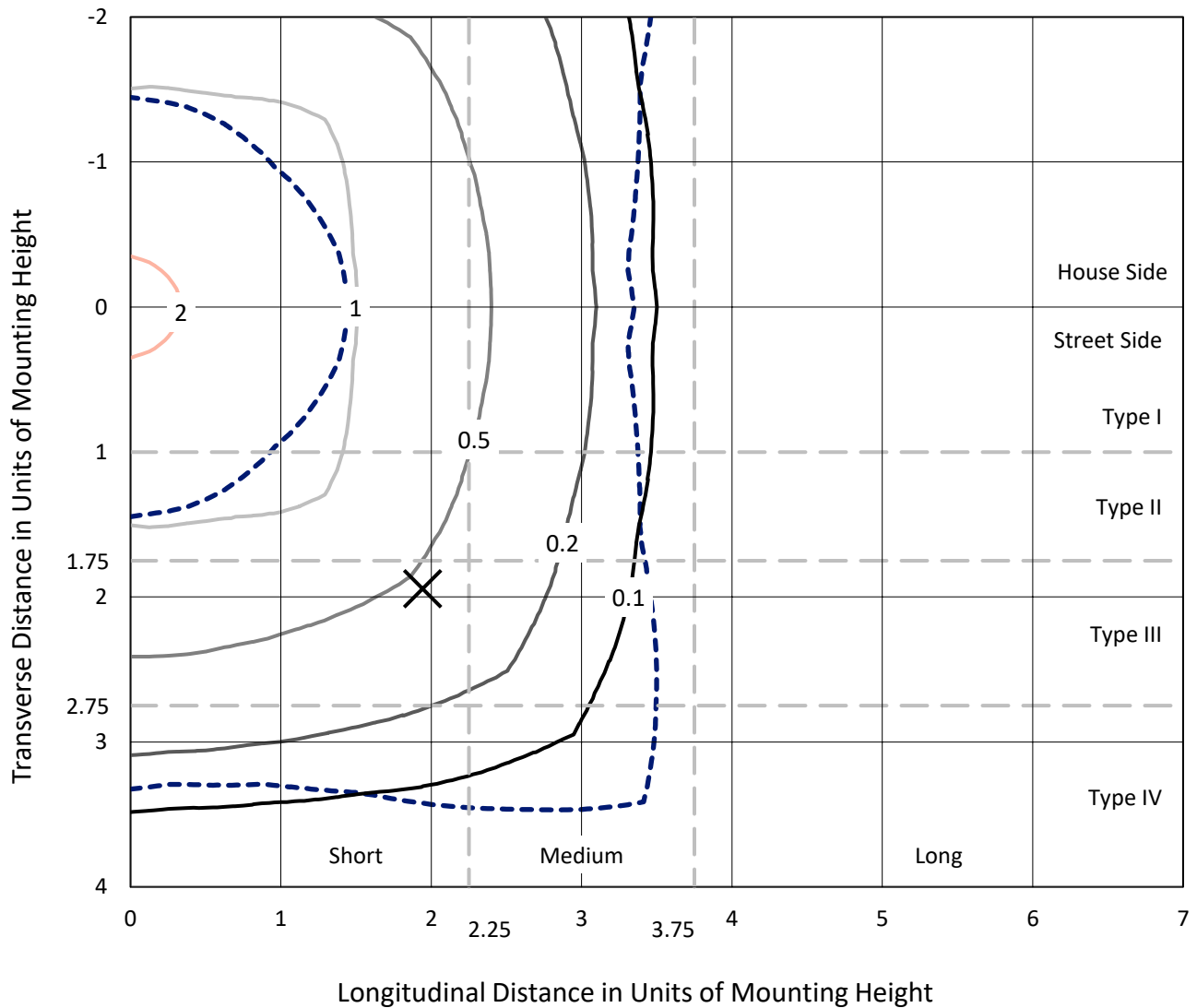
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

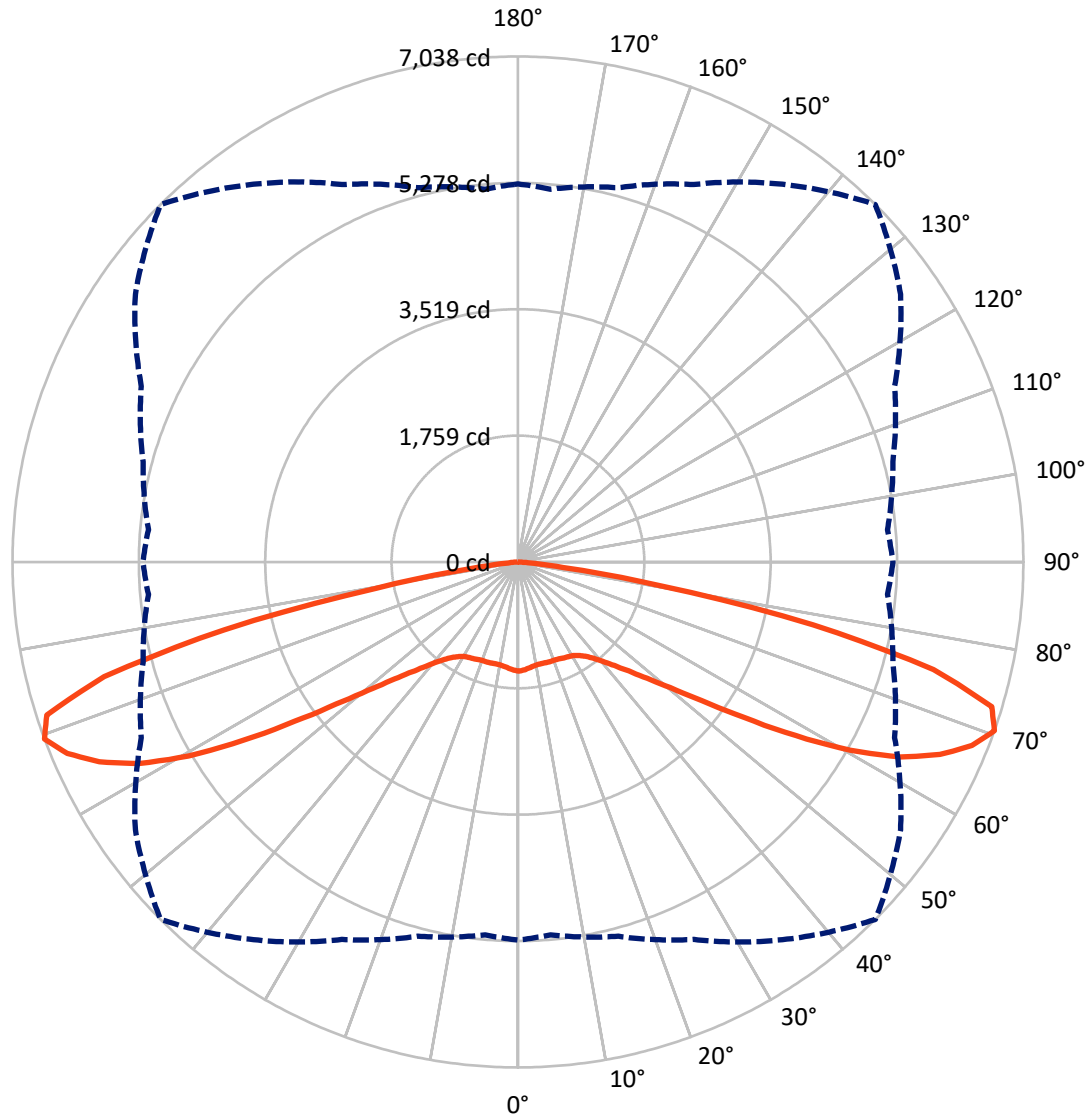
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	8332.0	0.0	8332.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8332.0	0.0	8332.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16664.0	0.0	16664.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	0.8
10°-20°	415.2	2.5
20°-30°	690.9	4.1
30°-40°	1044.9	6.3
40°-50°	1736.4	10.4
50°-60°	3276.6	19.7
60°-70°	5532.6	33.2
70°-80°	3635.5	21.8
80°-90°	190.5	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°	16664.0	100.0
0°-180°	16664.0	100.0



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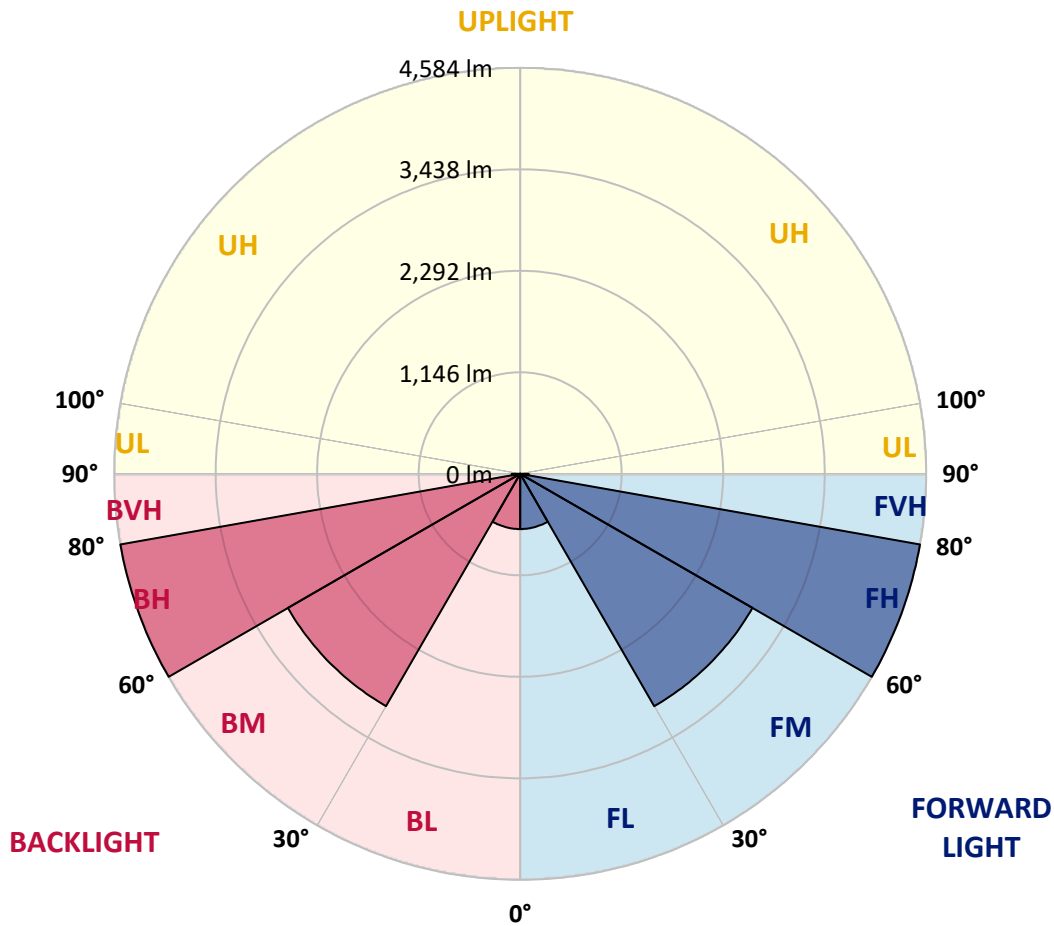
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.8	3.7			
FM (30°-60°)	3028.9	18.2			
FH (60°-80°)	4584.0	27.5			G2/5000
FVH (80°-90°)	95.2	0.6			G1/100
BL (0°-30°)	623.8	3.7	B2/1000		
BM (30°-60°)	3028.9	18.2	B3/5000		
BH (60°-80°)	4584.0	27.5	B4/5000		G2/5000
BVH (80°-90°)	95.2	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°	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1
2.5°	1510.6	1514.9	1513.2	1509.7	1509.7	1507.1	1509.7	1511.4	1514.0	1515.8	1514.9
5°	1490.6	1494.1	1493.2	1490.6	1491.5	1488.9	1490.6	1493.2	1495.0	1495.8	1495.8
7.5°	1473.3	1476.8	1475.1	1470.7	1470.7	1468.1	1469.0	1471.6	1474.2	1475.1	1475.1
10°	1469.0	1472.5	1467.3	1460.3	1457.7	1454.3	1455.1	1457.7	1462.9	1465.5	1465.5
12.5°	1470.7	1473.3	1468.1	1457.7	1455.1	1451.7	1451.7	1454.3	1461.2	1464.7	1465.5
15°	1475.9	1478.5	1470.7	1459.5	1456.9	1454.3	1453.4	1456.9	1464.7	1470.7	1471.6
17.5°	1485.4	1488.0	1475.9	1460.3	1456.9	1457.7	1456.9	1459.5	1471.6	1482.8	1482.8
20°	1494.1	1495.8	1479.4	1460.3	1456.9	1457.7	1456.9	1462.1	1477.7	1493.2	1494.1
22.5°	1496.7	1498.4	1482.8	1466.4	1463.8	1464.7	1463.8	1469.0	1483.7	1499.3	1499.3
25°	1497.6	1500.2	1488.0	1475.1	1479.4	1481.1	1479.4	1480.2	1491.5	1505.4	1504.5
27.5°	1510.6	1514.0	1502.8	1491.5	1494.1	1493.2	1495.8	1498.4	1507.1	1521.0	1517.5
30°	1537.4	1540.0	1530.5	1519.2	1517.5	1511.4	1519.2	1527.9	1537.4	1549.5	1546.9
32.5°	1581.6	1586.8	1574.7	1562.5	1554.7	1551.3	1557.3	1572.1	1585.1	1598.0	1592.8
35°	1655.2	1658.7	1647.4	1624.9	1611.0	1611.0	1616.2	1635.3	1656.1	1672.5	1666.5
37.5°	1759.1	1763.5	1743.6	1716.7	1695.9	1695.9	1702.8	1722.8	1754.0	1777.3	1768.7
40°	1885.6	1891.7	1866.6	1838.8	1818.9	1815.4	1824.1	1846.6	1876.1	1905.5	1896.0
42.5°	2038.0	2045.0	2012.1	1987.8	1972.2	1972.2	1976.6	1997.3	2024.2	2060.6	2058.0
45°	2232.9	2245.1	2200.0	2175.8	2161.0	2164.5	2167.1	2185.3	2209.5	2251.1	2249.4
47.5°	2465.1	2477.2	2429.5	2404.4	2401.8	2418.3	2407.9	2420.9	2433.9	2481.5	2467.7
50°	2728.4	2749.2	2716.2	2714.5	2719.7	2750.0	2725.8	2732.7	2718.0	2748.3	2730.1
52.5°	3050.6	3080.9	3074.8	3085.2	3143.3	3205.6	3150.2	3125.9	3070.5	3080.0	3048.0
55°	3441.2	3487.1	3495.8	3558.1	3689.8	3817.1	3699.3	3601.4	3483.7	3462.0	3428.2
57.5°	3885.5	3921.9	3963.5	4090.8	4336.8	4562.9	4336.8	4120.3	3934.9	3890.7	3859.6
60°	4363.7	4408.7	4448.5	4636.5	5002.0	5319.9	4995.1	4651.2	4406.1	4346.3	4294.4
62.5°	4877.3	4935.3	4963.0	5171.8	5597.9	5977.3	5604.0	5187.4	4915.4	4851.3	4799.3
65°	5370.1	5417.8	5448.9	5671.5	6078.6	6458.9	6106.4	5695.8	5416.0	5332.0	5290.4
67.5°	5599.7	5625.6	5701.9	5953.9	6383.5	6817.5	6456.3	5980.8	5668.1	5520.8	5522.6
70°	5263.6	5210.8	5394.4	5798.0	6419.9	7037.5	6503.1	5785.9	5403.0	5164.0	5221.1
72.5°	4067.4	3976.5	4295.2	4985.6	6004.1	6897.1	6045.7	5024.5	4493.6	4008.5	4128.9
75°	2213.0	2109.9	2549.9	3423.0	4788.1	5978.2	4898.1	3520.9	2839.2	2196.6	2339.5
77.5°	624.5	585.5	940.6	1656.1	2879.9	4197.4	2990.8	1692.5	1115.6	661.7	735.4
80°	191.4	185.4	251.2	498.9	1223.0	2010.3	1175.4	505.0	319.6	201.8	213.1
82.5°	113.5	103.9	124.7	181.9	311.8	631.4	303.2	189.7	152.4	102.2	110.9
85°	65.0	60.6	73.6	88.3	104.8	134.3	87.5	90.1	81.4	54.6	57.2
87.5°	26.9	24.3	28.6	27.7	24.3	31.2	23.4	27.7	32.9	21.7	19.9
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)