

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: P965544

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965544
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-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: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17288.7 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

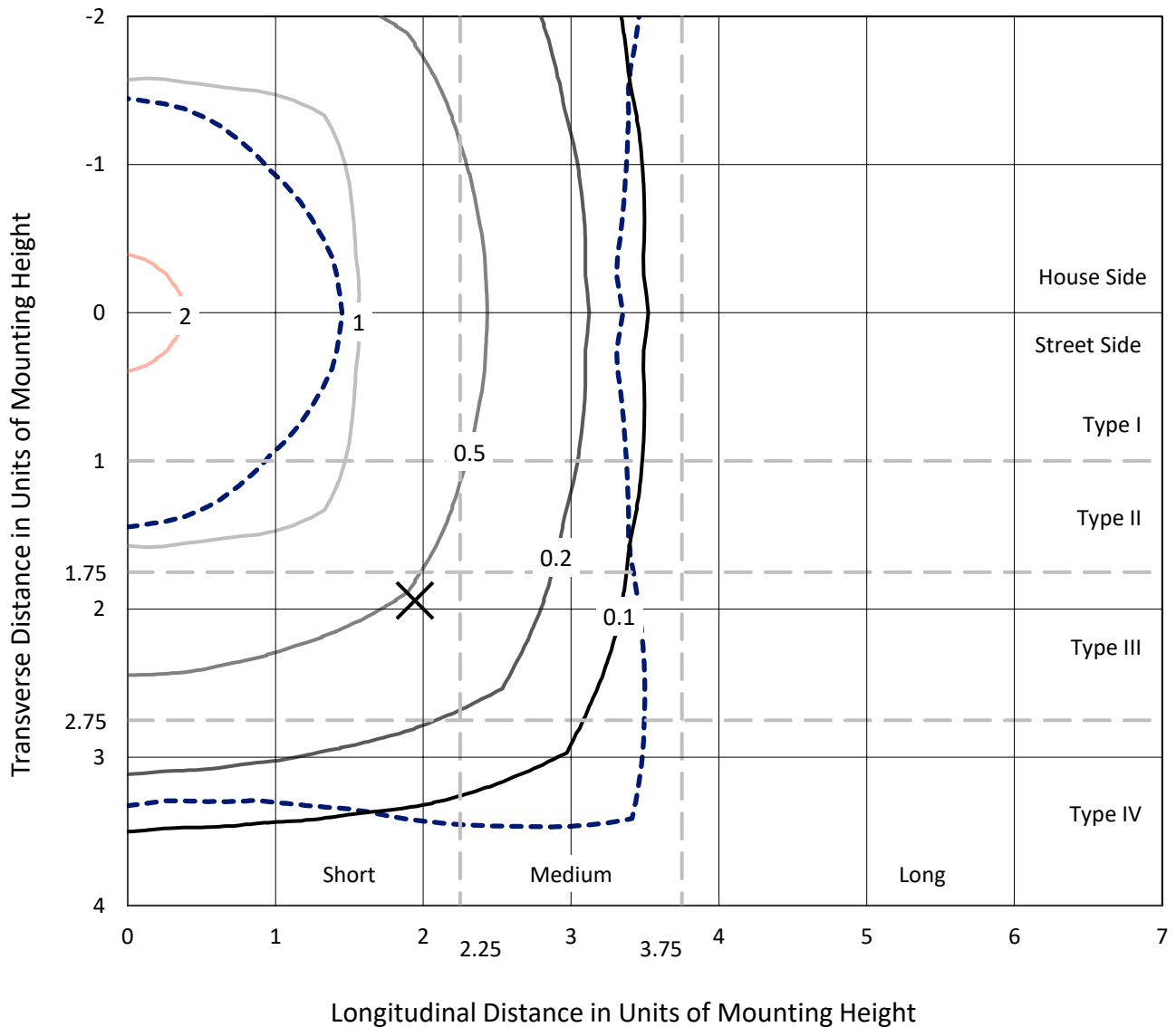
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

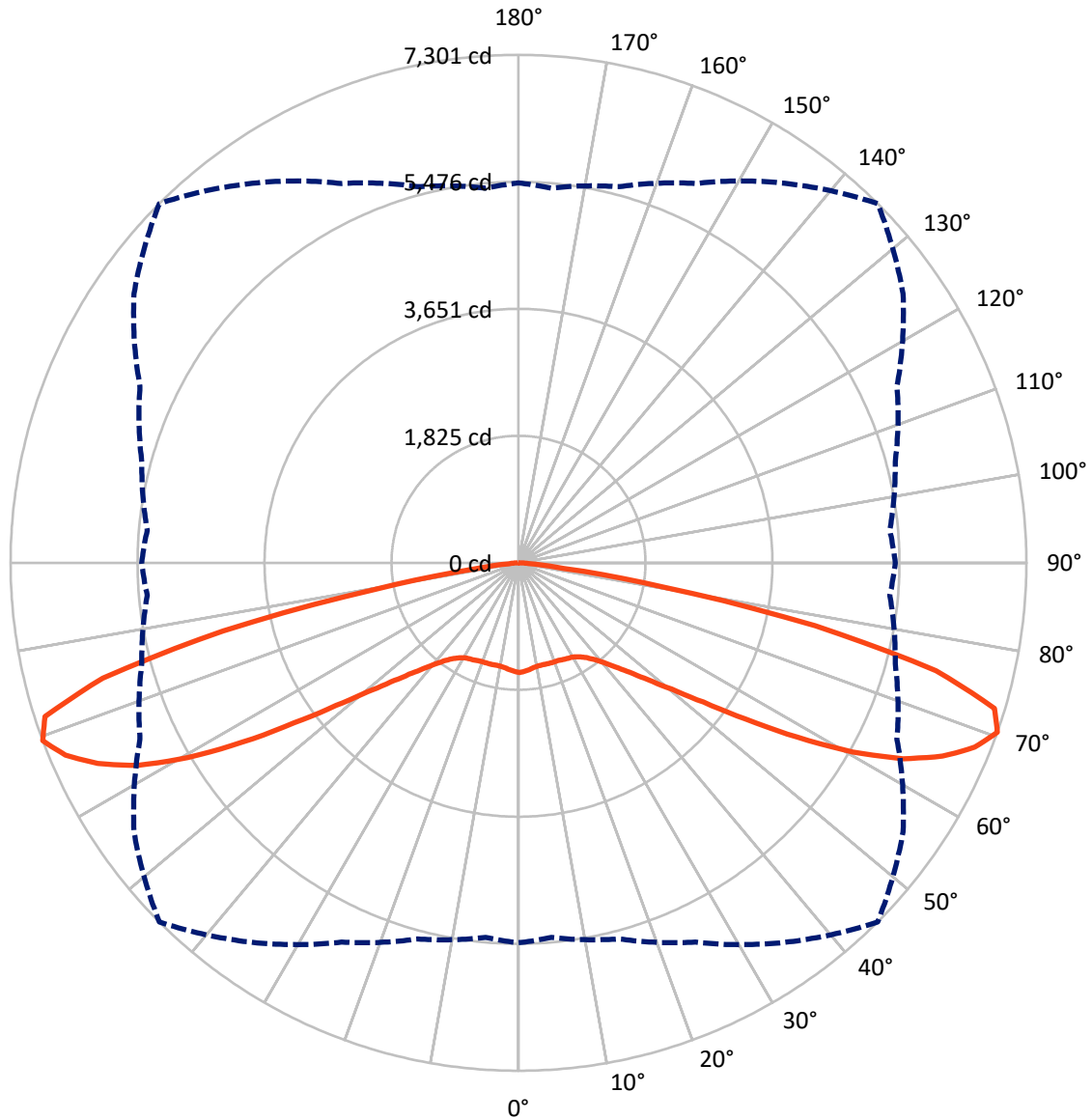
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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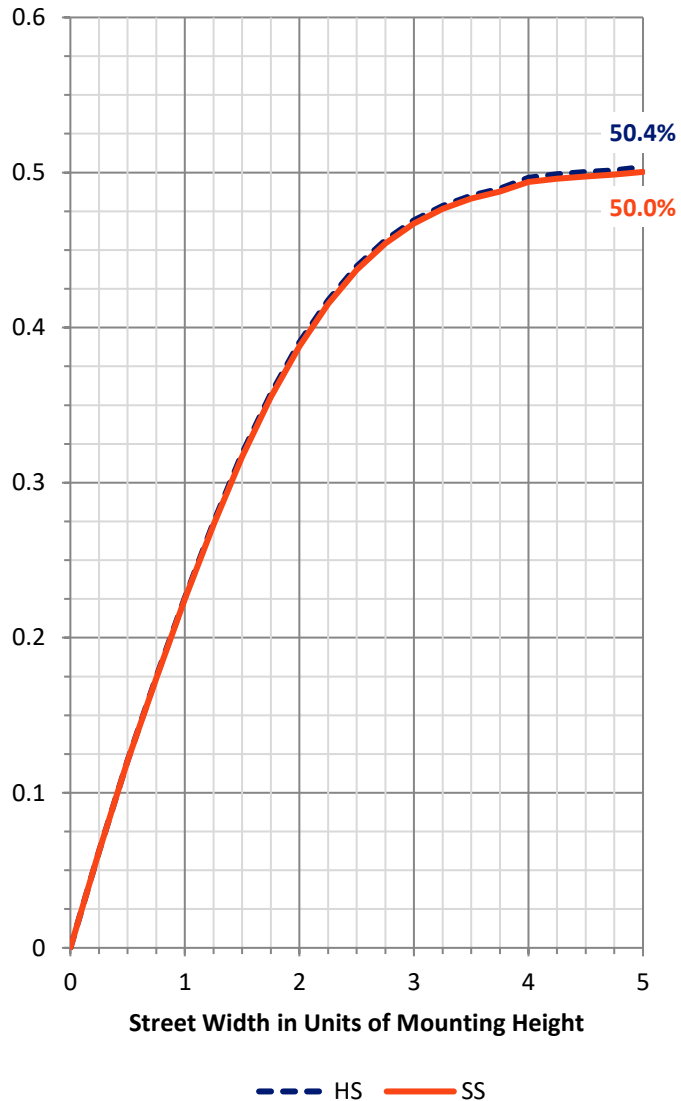
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8644.3	0.0	8644.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8644.3	0.0	8644.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	17288.7	0.0	17288.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	0.8
10°-20°	430.8	2.5
20°-30°	716.8	4.1
30°-40°	1084.1	6.3
40°-50°	1801.5	10.4
50°-60°	3399.4	19.7
60°-70°	5740.0	33.2
70°-80°	3771.8	21.8
80°-90°	197.6	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°	17288.7	100.0
0°-180°	17288.7	100.0

Coefficient of Utilization



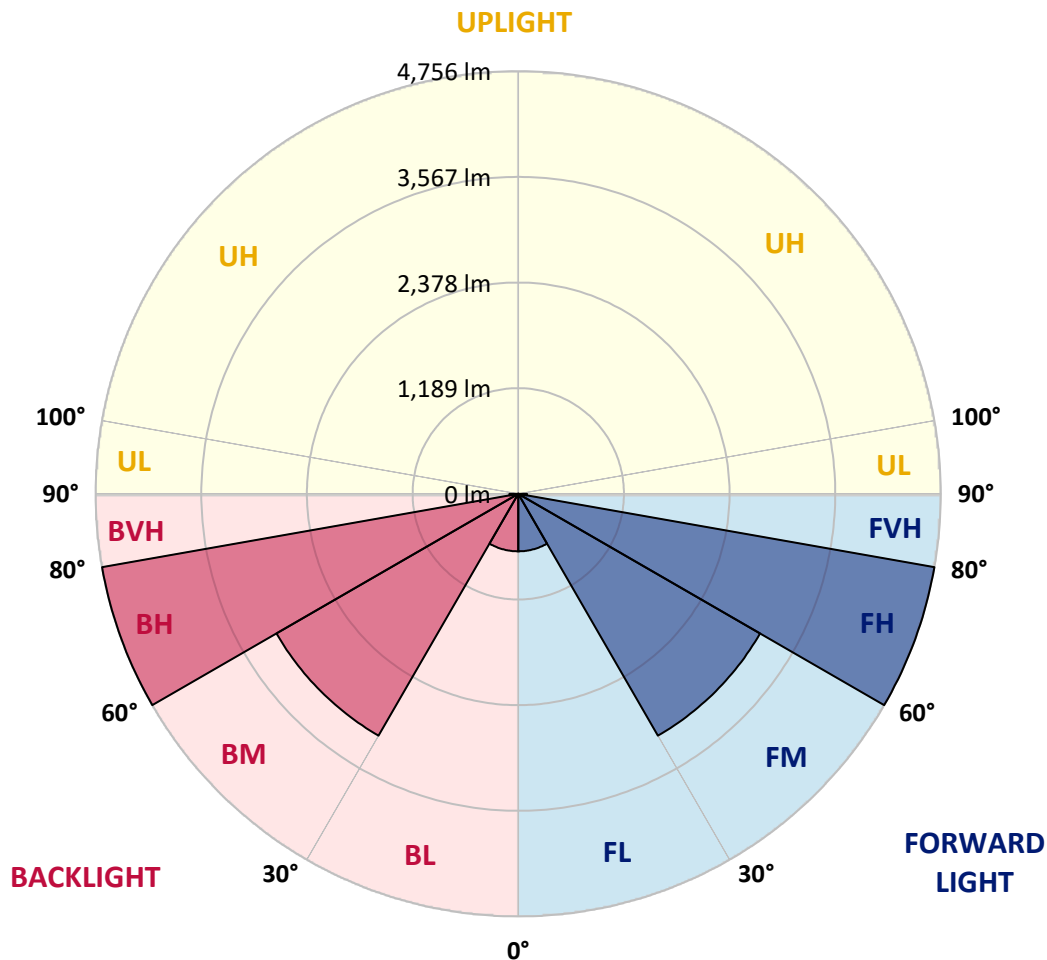
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	647.2	3.7			
FM (30°-60°)	3142.5	18.2			
FH (60°-80°)	4755.9	27.5			G2/5000
FVH (80°-90°)	98.8	0.6			G1/100
BL (0°-30°)	647.2	3.7	B2/1000		
BM (30°-60°)	3142.5	18.2	B3/5000		
BH (60°-80°)	4755.9	27.5	B4/5000		G2/5000
BVH (80°-90°)	98.8	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°	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1	1577.1
2.5°	1567.2	1571.6	1569.9	1566.3	1566.3	1563.6	1566.3	1568.0	1570.8	1572.6	1571.6
5°	1546.5	1550.1	1549.2	1546.5	1547.4	1544.7	1546.5	1549.2	1551.0	1552.0	1552.0
7.5°	1528.6	1532.2	1530.3	1525.8	1525.8	1523.1	1524.1	1526.7	1529.4	1530.3	1530.3
10°	1524.1	1527.7	1522.2	1515.1	1512.4	1508.8	1509.7	1512.4	1517.7	1520.5	1520.5
12.5°	1525.8	1528.6	1523.1	1512.4	1509.7	1506.1	1506.1	1508.8	1516.0	1519.6	1520.5
15°	1531.2	1533.9	1525.8	1514.1	1511.5	1508.8	1507.9	1511.5	1519.6	1525.8	1526.7
17.5°	1541.1	1543.9	1531.2	1515.1	1511.5	1512.4	1511.5	1514.1	1526.7	1538.4	1538.4
20°	1550.1	1552.0	1534.8	1515.1	1511.5	1512.4	1511.5	1516.9	1533.1	1549.2	1550.1
22.5°	1552.8	1554.6	1538.4	1521.4	1518.6	1519.6	1518.6	1524.1	1539.3	1555.5	1555.5
25°	1553.7	1556.4	1543.9	1530.3	1534.8	1536.7	1534.8	1535.8	1547.4	1561.8	1560.9
27.5°	1567.2	1570.8	1559.1	1547.4	1550.1	1549.2	1552.0	1554.6	1563.6	1578.0	1574.4
30°	1595.0	1597.8	1587.8	1576.1	1574.4	1568.0	1576.1	1585.2	1595.0	1607.6	1604.9
32.5°	1640.9	1646.3	1633.6	1621.1	1613.0	1609.5	1615.7	1631.0	1644.5	1657.9	1652.6
35°	1717.3	1720.9	1709.2	1685.8	1671.5	1671.5	1676.8	1696.6	1718.2	1735.2	1729.0
37.5°	1825.1	1829.6	1808.9	1781.0	1759.5	1759.5	1766.7	1787.4	1819.7	1844.0	1835.0
40°	1956.3	1962.6	1936.5	1907.7	1887.1	1883.5	1892.5	1915.8	1946.4	1976.9	1967.1
42.5°	2114.5	2121.6	2087.5	2062.3	2046.1	2046.1	2050.6	2072.2	2100.0	2137.8	2135.1
45°	2316.6	2329.2	2282.5	2257.4	2242.1	2245.7	2248.3	2267.2	2292.4	2335.5	2333.7
47.5°	2557.5	2570.1	2520.6	2494.5	2491.9	2508.9	2498.1	2511.7	2525.1	2574.5	2560.1
50°	2830.6	2852.2	2818.0	2816.3	2821.6	2853.1	2828.0	2835.1	2819.9	2851.3	2832.5
52.5°	3164.9	3196.4	3190.1	3200.9	3261.0	3325.8	3268.3	3243.1	3185.6	3195.4	3162.2
55°	3570.2	3617.8	3626.9	3691.5	3828.1	3960.2	3838.0	3736.4	3614.3	3591.8	3556.7
57.5°	4031.2	4068.9	4112.1	4244.2	4499.3	4734.0	4499.3	4274.8	4082.5	4036.6	4004.3
60°	4527.2	4574.0	4615.3	4810.3	5189.5	5519.3	5182.3	4825.6	4571.3	4509.3	4455.4
62.5°	5060.1	5120.3	5149.1	5365.7	5807.8	6201.4	5814.1	5381.9	5099.7	5033.2	4979.2
65°	5571.4	5620.9	5653.2	5884.1	6306.5	6701.0	6335.2	5909.3	5619.0	5531.9	5488.8
67.5°	5809.6	5836.6	5915.6	6177.1	6622.8	7073.0	6698.3	6204.9	5880.5	5727.8	5729.5
70°	5460.9	5406.1	5596.6	6015.3	6660.6	7301.3	6746.9	6002.8	5605.6	5357.6	5416.9
72.5°	4219.9	4125.5	4456.3	5172.5	6229.2	7155.7	6272.4	5212.8	4662.0	4158.8	4283.7
75°	2296.0	2189.0	2645.5	3551.3	4967.6	6202.3	5081.6	3652.9	2945.6	2278.9	2427.2
77.5°	647.9	607.4	975.9	1718.2	2987.9	4354.7	3102.9	1755.9	1157.4	686.5	762.9
80°	198.6	192.3	260.6	517.6	1268.8	2085.7	1219.4	523.9	331.6	209.4	221.1
82.5°	117.7	107.8	129.4	188.7	323.5	655.1	314.5	196.8	158.2	106.1	115.0
85°	67.4	62.9	76.4	91.6	108.8	139.3	90.7	93.5	84.5	56.6	59.3
87.5°	27.9	25.1	29.6	28.8	25.1	32.4	24.3	28.8	34.1	22.4	20.7
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)