

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: P963930

Luminaire Tested: **NAV-SB3B-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14981.4 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

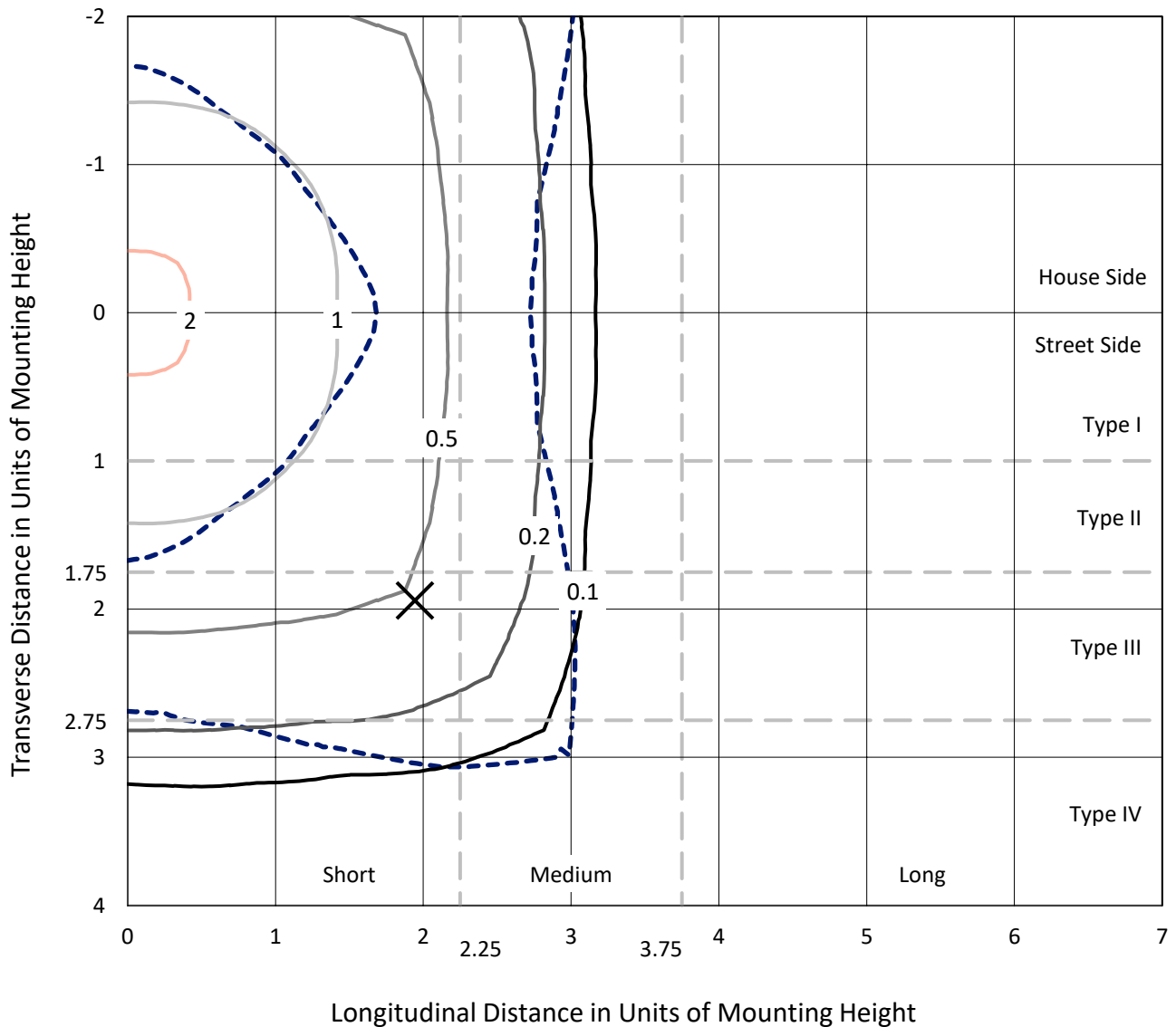
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

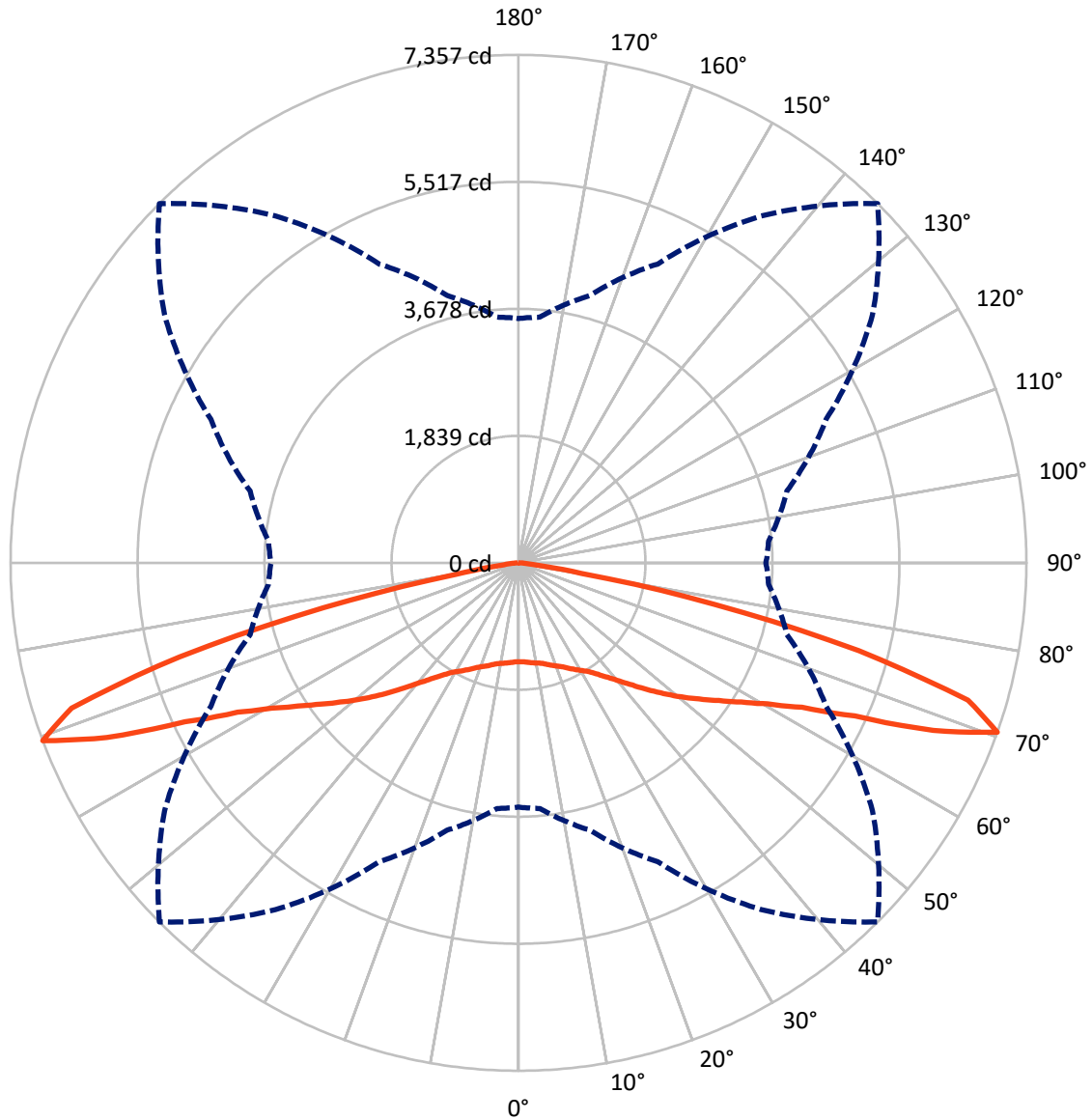
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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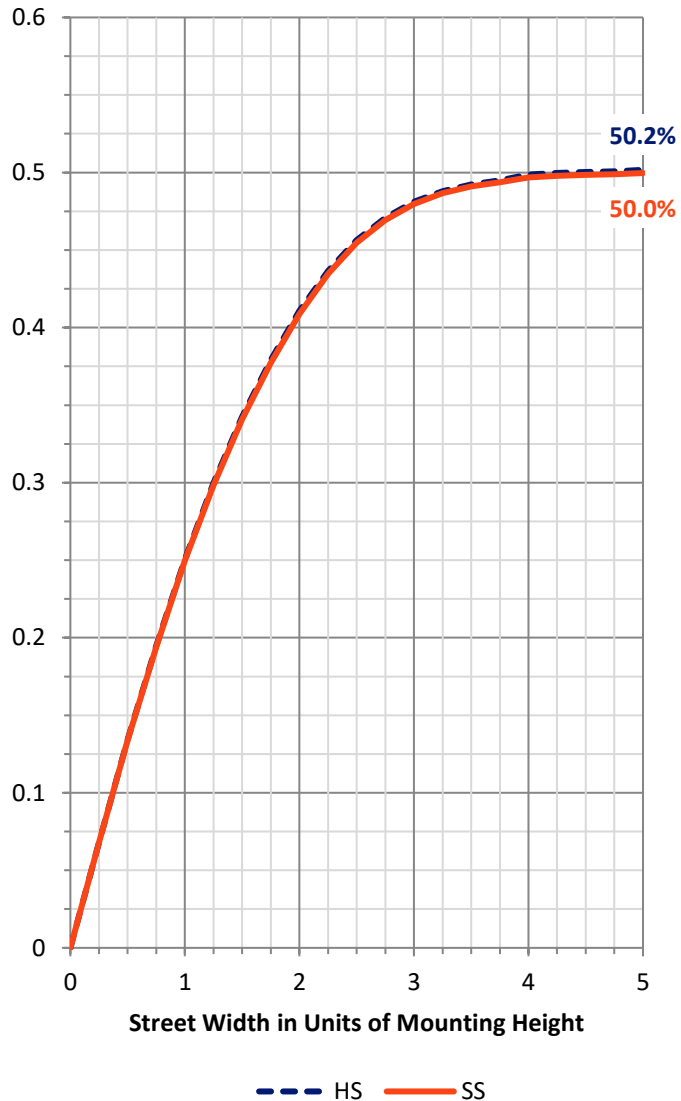
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7490.7	0.0	7490.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7490.7	0.0	7490.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	14981.4	0.0	14981.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	0.9
10°-20°	432.3	2.9
20°-30°	772.6	5.2
30°-40°	1252.4	8.4
40°-50°	2039.9	13.6
50°-60°	3110.2	20.8
60°-70°	4626.9	30.9
70°-80°	2521.8	16.8
80°-90°	85.9	0.6
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°	14981.4	100.0
0°-180°	14981.4	100.0

Coefficient of Utilization

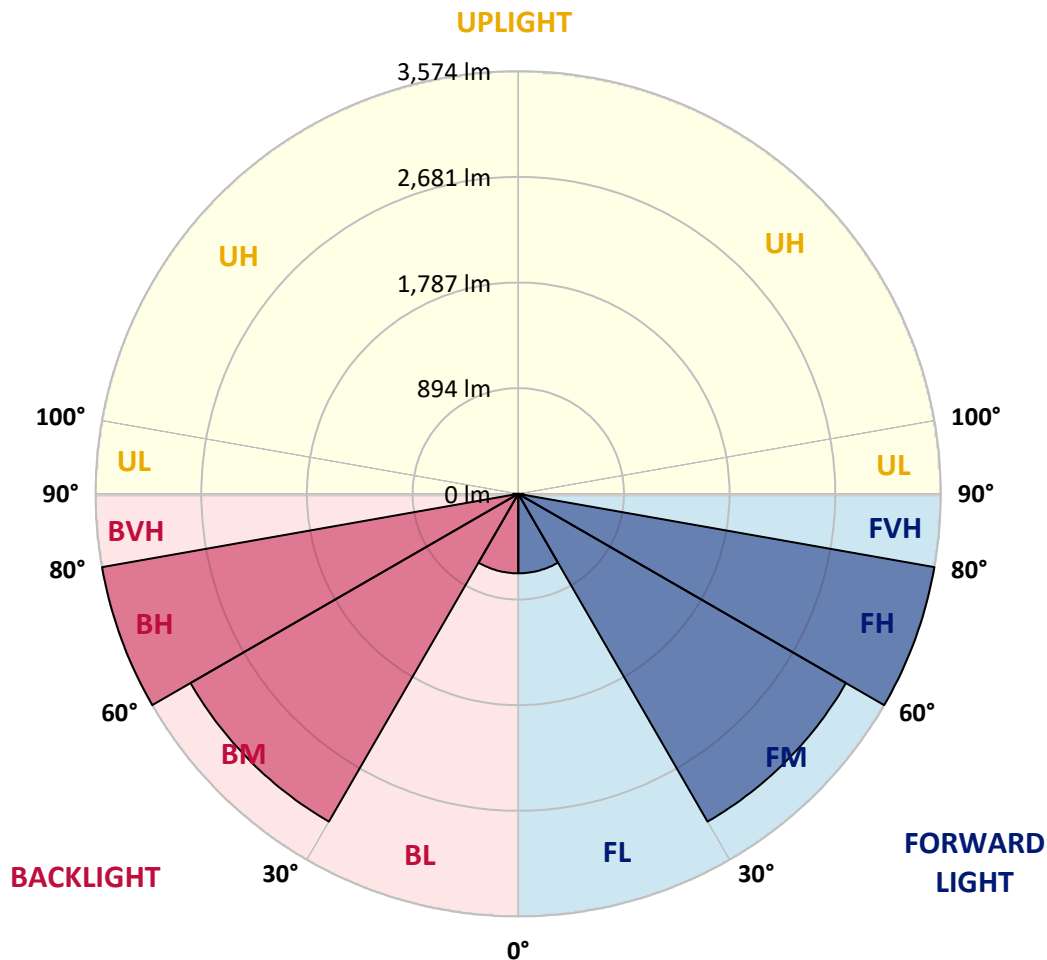


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	672.2	4.5			
FM (30°-60°)	3201.2	21.4			
FH (60°-80°)	3574.4	23.9			G2/5000
FVH (80°-90°)	42.9	0.3			G1/100
BL (0°-30°)	672.2	4.5	B2/1000		
BM (30°-60°)	3201.2	21.4	B3/5000		
BH (60°-80°)	3574.4	23.9	B4/5000		G2/5000
BVH (80°-90°)	42.9	0.3			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°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1441.9	1443.3	1440.3	1438.8	1437.4	1435.1	1435.8	1439.6	1442.6	1441.9	1442.6
5°	1453.9	1455.4	1453.1	1452.3	1449.4	1448.6	1448.6	1452.3	1454.6	1453.1	1453.9
7.5°	1467.4	1469.6	1465.9	1465.1	1463.6	1462.2	1461.3	1465.1	1467.4	1467.4	1467.4
10°	1480.2	1482.5	1479.5	1477.2	1475.7	1475.7	1474.2	1477.2	1480.9	1480.2	1480.2
12.5°	1493.7	1495.3	1492.2	1490.8	1490.8	1493.0	1490.8	1492.2	1495.3	1493.7	1493.0
15°	1510.2	1511.1	1510.2	1512.5	1516.3	1523.8	1517.0	1515.6	1517.0	1513.3	1513.3
17.5°	1532.9	1534.3	1537.4	1542.6	1547.9	1561.4	1549.4	1545.6	1545.6	1538.1	1538.1
20°	1560.7	1562.9	1567.4	1576.4	1583.2	1596.0	1584.0	1578.7	1576.4	1566.7	1566.7
22.5°	1590.0	1593.8	1600.5	1612.5	1624.6	1636.6	1624.6	1615.6	1608.8	1596.0	1595.3
25°	1623.8	1628.3	1638.9	1658.4	1675.0	1692.3	1678.0	1660.0	1646.5	1628.3	1627.6
27.5°	1672.0	1677.2	1690.0	1714.1	1735.1	1750.2	1736.7	1713.4	1694.5	1672.7	1672.0
30°	1739.6	1745.0	1760.0	1785.6	1799.8	1809.6	1800.6	1782.6	1760.0	1735.1	1735.1
32.5°	1827.0	1833.7	1850.2	1874.3	1877.3	1878.8	1875.9	1866.8	1850.2	1820.2	1820.9
35°	1937.5	1945.0	1963.8	1983.4	1980.4	1983.4	1978.9	1975.9	1963.8	1929.3	1929.3
37.5°	2072.9	2081.9	2101.5	2116.5	2108.9	2105.2	2106.0	2106.7	2099.9	2061.6	2061.6
40°	2230.1	2242.1	2256.4	2272.2	2259.4	2248.1	2255.6	2261.7	2255.6	2216.6	2216.6
42.5°	2391.7	2409.1	2424.1	2446.7	2436.1	2421.9	2432.4	2439.2	2426.4	2384.3	2387.2
45°	2571.5	2588.1	2607.6	2641.5	2633.9	2618.9	2633.9	2635.5	2613.6	2564.0	2569.3
47.5°	2757.4	2774.6	2803.9	2849.1	2846.0	2829.5	2849.1	2838.5	2810.8	2751.3	2747.5
50°	2933.3	2957.3	3002.5	3065.7	3071.7	3051.4	3077.7	3057.4	3010.7	2936.3	2934.8
52.5°	3098.8	3124.3	3195.8	3281.5	3303.4	3277.0	3312.4	3277.0	3207.1	3111.6	3102.6
55°	3272.5	3301.1	3386.1	3498.1	3541.8	3522.2	3555.3	3501.9	3402.6	3286.8	3271.0
57.5°	3477.1	3494.4	3595.9	3729.1	3802.7	3807.3	3822.3	3732.0	3611.7	3480.1	3462.0
60°	3699.0	3723.0	3833.6	3993.1	4109.6	4147.3	4131.5	3997.6	3857.7	3706.5	3682.4
62.5°	3983.3	4009.6	4142.0	4333.0	4517.3	4610.6	4548.8	4354.8	4181.8	4000.6	3969.0
65°	4218.7	4248.0	4487.2	4828.0	5163.3	5350.6	5195.7	4838.4	4527.1	4271.4	4229.3
67.5°	4047.9	4084.1	4459.4	5085.1	5919.3	6478.1	5947.9	5161.9	4551.9	4205.2	4153.3
70°	3538.0	3571.8	4009.6	4774.6	6132.1	7356.5	6260.0	4915.2	4023.8	3635.8	3583.9
72.5°	2348.9	2458.0	2901.0	3818.5	5475.5	6807.5	5529.7	3741.0	2691.1	2343.7	2267.7
75°	779.2	866.4	1168.8	1979.6	3667.3	5091.2	3491.4	1751.7	925.9	666.4	630.3
77.5°	196.3	226.4	312.1	566.3	1462.9	2898.7	1317.0	462.6	251.9	176.0	157.2
80°	95.5	105.3	150.5	188.8	366.3	921.4	343.7	177.5	118.8	91.7	84.3
82.5°	52.7	53.4	85.0	106.8	136.1	238.4	141.4	103.8	68.5	55.7	55.7
85°	32.4	31.6	45.1	57.2	57.2	85.0	67.6	57.2	39.2	34.6	36.1
87.5°	12.8	12.8	16.5	18.0	15.8	21.8	17.3	18.8	15.1	14.2	15.1
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)