

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: P963465

Luminaire Tested: **NAV-SB3A-730-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963465
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-SB3A-730-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14447.4 lumens
Efficiency: N/A
Efficacy: 170.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

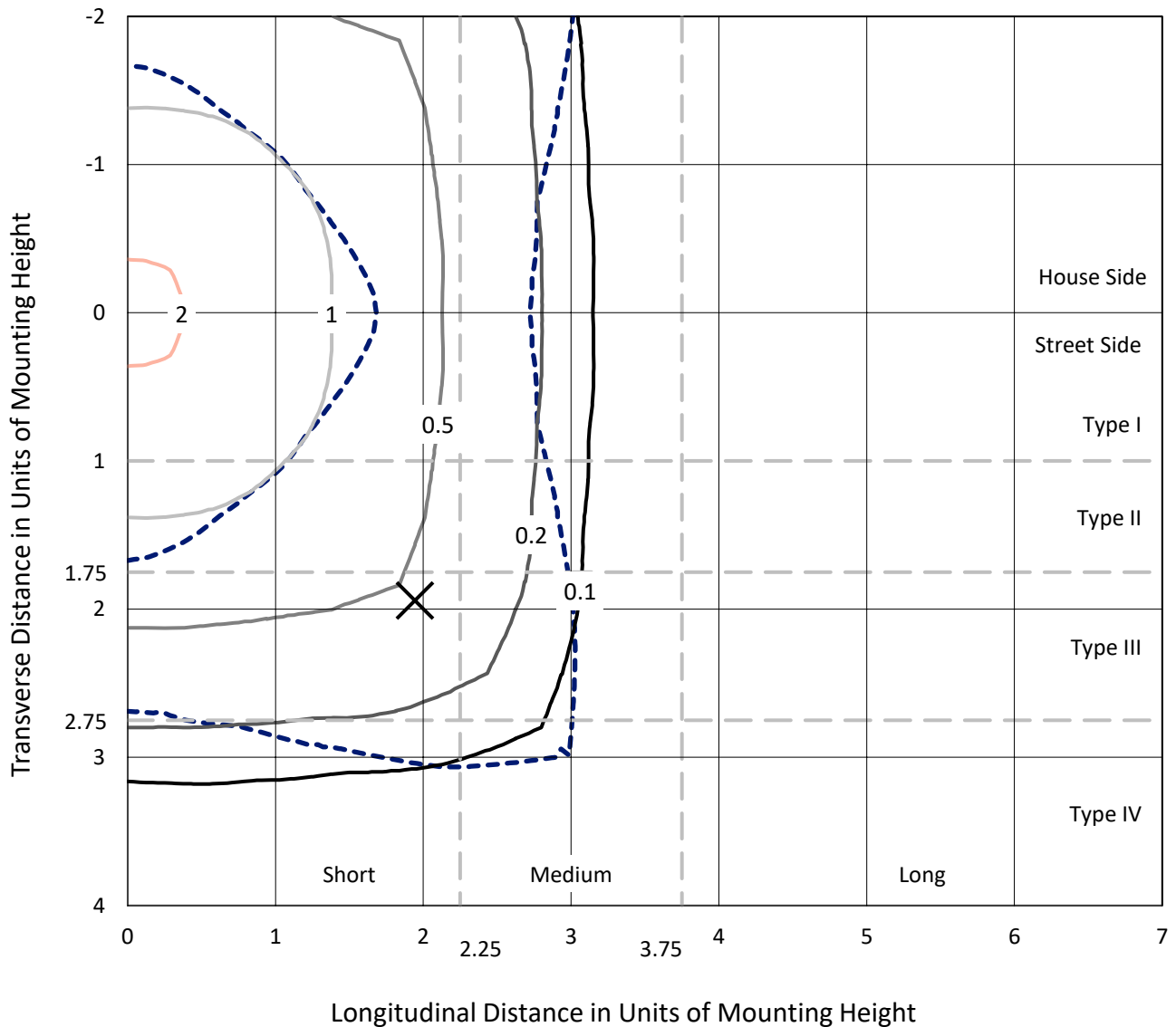
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

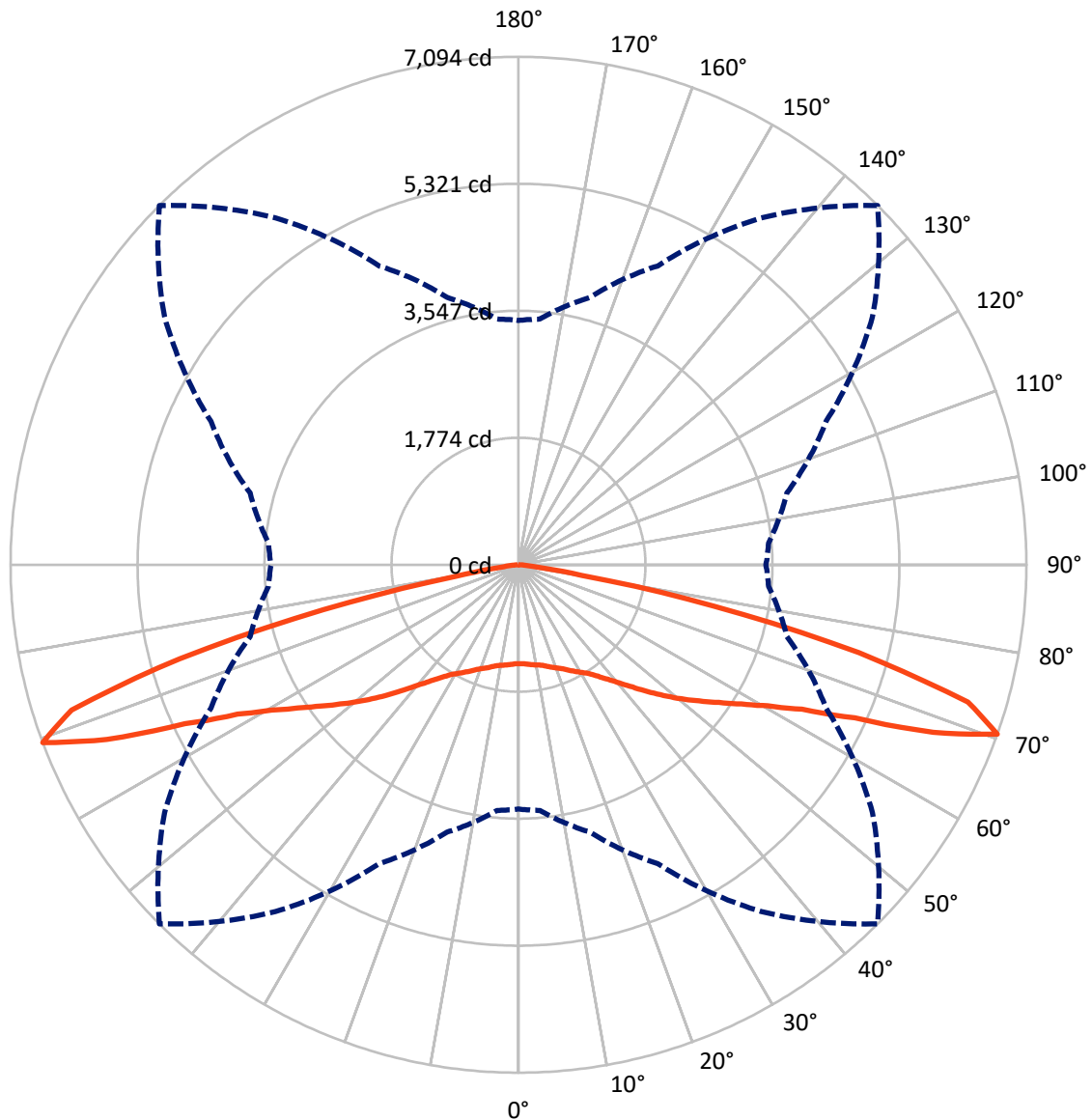
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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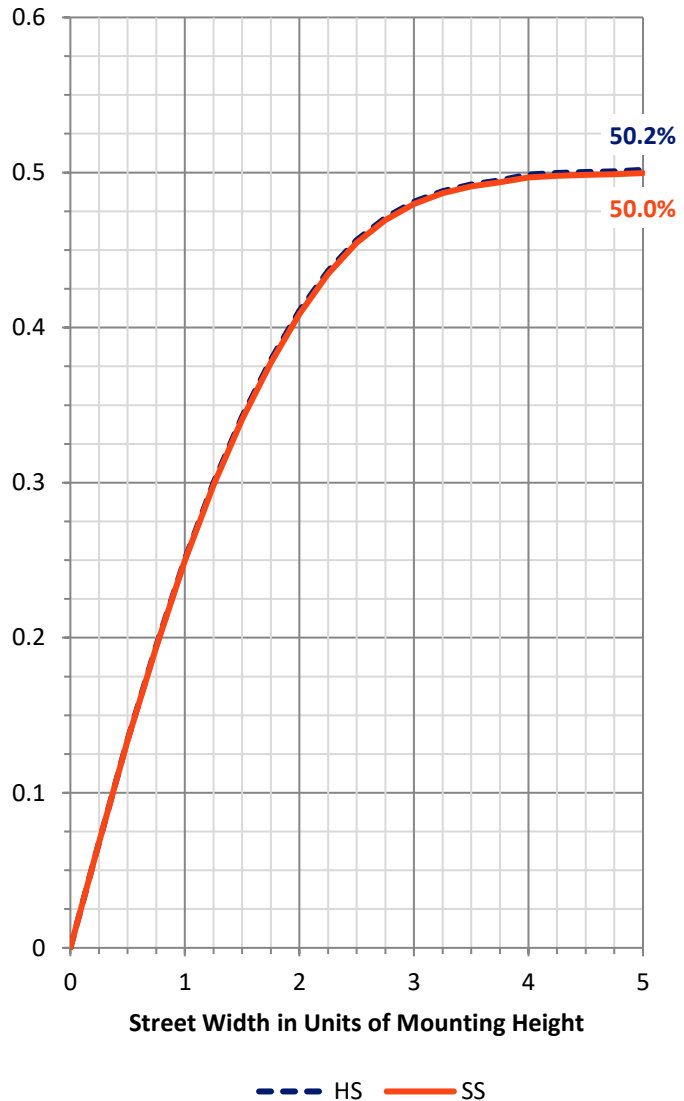
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7223.7	0.0	7223.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7223.7	0.0	7223.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	14447.4	0.0	14447.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	0.9
10°-20°	416.9	2.9
20°-30°	745.1	5.2
30°-40°	1207.7	8.4
40°-50°	1967.2	13.6
50°-60°	2999.3	20.8
60°-70°	4462.0	30.9
70°-80°	2431.9	16.8
80°-90°	82.8	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°	14447.4	100.0
0°-180°	14447.4	100.0

Coefficient of Utilization



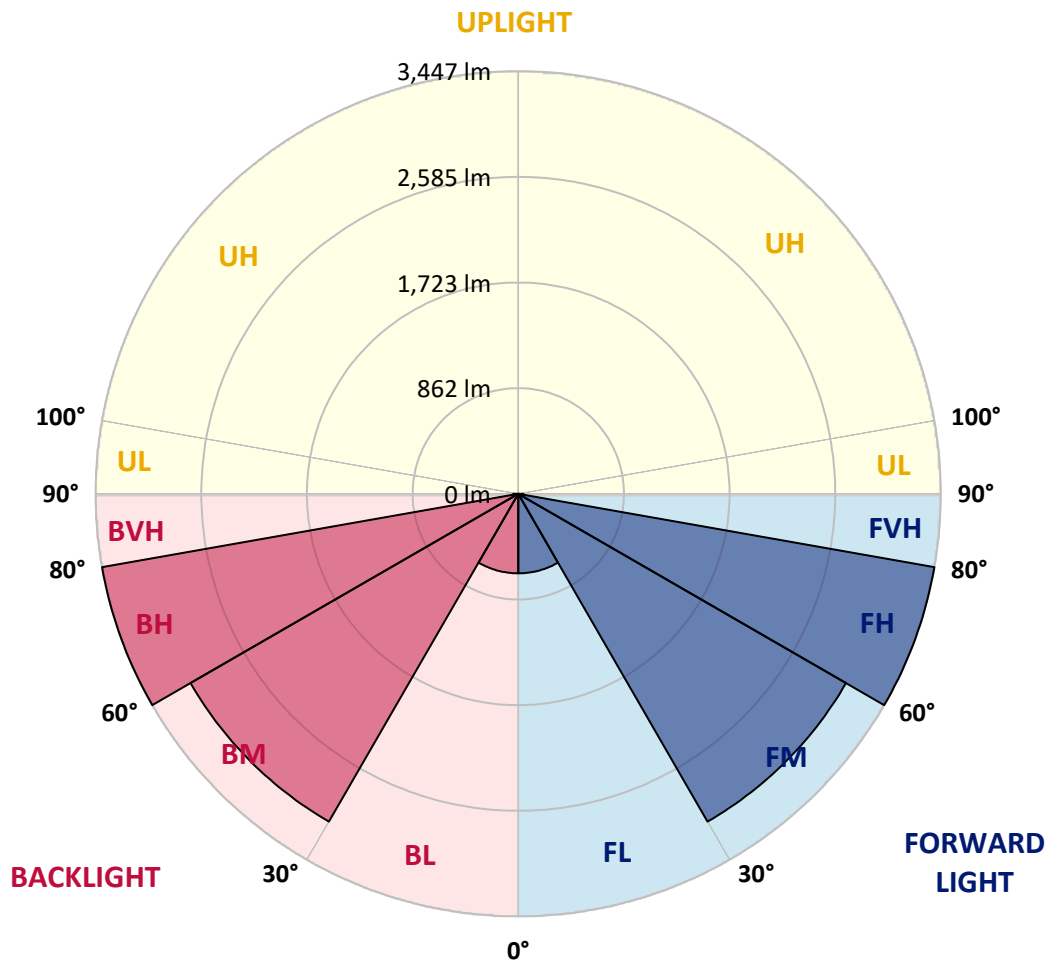
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.2	4.5			
FM (30°-60°)	3087.1	21.4			
FH (60°-80°)	3447.0	23.9			G2/5000
FVH (80°-90°)	41.4	0.3			G1/100
BL (0°-30°)	648.2	4.5	B2/1000		
BM (30°-60°)	3087.1	21.4	B3/5000		
BH (60°-80°)	3447.0	23.9	B4/5000		G2/5000
BVH (80°-90°)	41.4	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°	1384.0	1384.0	1384.0	1384.0	1384.0	1384.0	1384.0	1384.0	1384.0	1384.0	1384.0
2.5°	1390.4	1391.8	1389.0	1387.5	1386.1	1384.0	1384.7	1388.3	1391.1	1390.4	1391.1
5°	1402.0	1403.5	1401.3	1400.6	1397.7	1397.0	1397.0	1400.6	1402.8	1401.3	1402.0
7.5°	1415.1	1417.3	1413.7	1413.0	1411.4	1410.0	1409.3	1413.0	1415.1	1415.1	1415.1
10°	1427.4	1429.6	1426.7	1424.5	1423.1	1423.1	1421.7	1424.5	1428.1	1427.4	1427.4
12.5°	1440.5	1442.0	1439.0	1437.6	1437.6	1439.7	1437.6	1439.0	1442.0	1440.5	1439.7
15°	1456.4	1457.1	1456.4	1458.6	1462.3	1469.5	1463.0	1461.5	1463.0	1459.3	1459.3
17.5°	1478.2	1479.7	1482.6	1487.6	1492.7	1505.7	1494.1	1490.6	1490.6	1483.3	1483.3
20°	1505.0	1507.3	1511.6	1520.3	1526.8	1539.1	1527.6	1522.4	1520.3	1510.8	1510.8
22.5°	1533.3	1537.0	1543.4	1555.1	1566.7	1578.3	1566.7	1558.0	1551.4	1539.1	1538.4
25°	1566.0	1570.3	1580.4	1599.3	1615.3	1632.0	1618.2	1600.7	1587.7	1570.3	1569.6
27.5°	1612.4	1617.4	1629.7	1653.0	1673.3	1687.9	1674.7	1652.3	1634.2	1613.1	1612.4
30°	1677.6	1682.7	1697.3	1721.9	1735.7	1745.2	1736.5	1719.0	1697.3	1673.3	1673.3
32.5°	1761.8	1768.3	1784.3	1807.5	1810.4	1811.9	1808.9	1800.2	1784.3	1755.3	1756.0
35°	1868.5	1875.6	1893.8	1912.6	1909.8	1912.6	1908.3	1905.4	1893.8	1860.5	1860.5
37.5°	1999.0	2007.7	2026.5	2041.1	2033.8	2030.2	2030.9	2031.7	2025.1	1988.1	1988.1
40°	2150.6	2162.1	2176.0	2191.1	2178.8	2168.0	2175.3	2181.0	2175.3	2137.5	2137.5
42.5°	2306.6	2323.2	2337.7	2359.4	2349.3	2335.6	2345.7	2352.2	2339.9	2299.3	2302.1
45°	2479.9	2495.8	2514.6	2547.3	2540.1	2525.6	2540.1	2541.5	2520.5	2472.6	2477.7
47.5°	2659.1	2675.7	2704.0	2747.5	2744.6	2728.7	2747.5	2737.4	2710.5	2653.2	2649.6
50°	2828.8	2852.0	2895.5	2956.4	2962.2	2942.6	2968.0	2948.4	2903.4	2831.7	2830.2
52.5°	2988.3	3013.0	3081.9	3164.6	3185.6	3160.2	3194.3	3160.2	3092.7	3000.7	2992.0
55°	3155.9	3183.4	3265.3	3373.5	3415.5	3396.6	3428.6	3377.1	3281.3	3169.6	3154.4
57.5°	3353.2	3369.8	3467.8	3596.1	3667.2	3671.6	3686.1	3599.1	3483.0	3356.1	3338.6
60°	3567.1	3590.4	3697.0	3850.7	3963.2	3999.4	3984.2	3855.0	3720.1	3574.4	3551.1
62.5°	3841.3	3866.7	3994.3	4178.5	4356.2	4446.2	4386.7	4199.6	4032.8	3858.0	3827.6
65°	4068.3	4096.6	4327.2	4655.9	4979.3	5160.0	5010.5	4666.0	4365.7	4119.1	4078.5
67.5°	3903.7	3938.5	4300.4	4903.9	5708.2	6247.2	5735.8	4977.9	4389.7	4055.3	4005.2
70°	3411.9	3444.5	3866.7	4604.3	5913.5	7094.3	6036.8	4740.0	3880.4	3506.2	3456.1
72.5°	2265.1	2370.3	2797.5	3682.4	5280.3	6564.8	5332.6	3607.7	2595.2	2260.1	2186.8
75°	751.4	835.6	1127.2	1909.1	3536.7	4909.6	3366.9	1689.3	892.9	642.7	607.8
77.5°	189.3	218.3	301.0	546.1	1410.7	2795.4	1270.1	446.1	243.0	169.7	151.6
80°	92.1	101.6	145.0	182.0	353.2	888.5	331.5	171.2	114.6	88.5	81.3
82.5°	50.7	51.5	82.0	103.0	131.3	229.9	136.3	100.1	66.0	53.7	53.7
85°	31.2	30.4	43.6	55.1	55.1	82.0	65.3	55.1	37.7	33.4	34.8
87.5°	12.3	12.3	16.0	17.4	15.3	21.0	16.7	18.1	14.6	13.7	14.6
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)