

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: P961311

Luminaire Tested: **NAV-SB2A-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7514.3 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

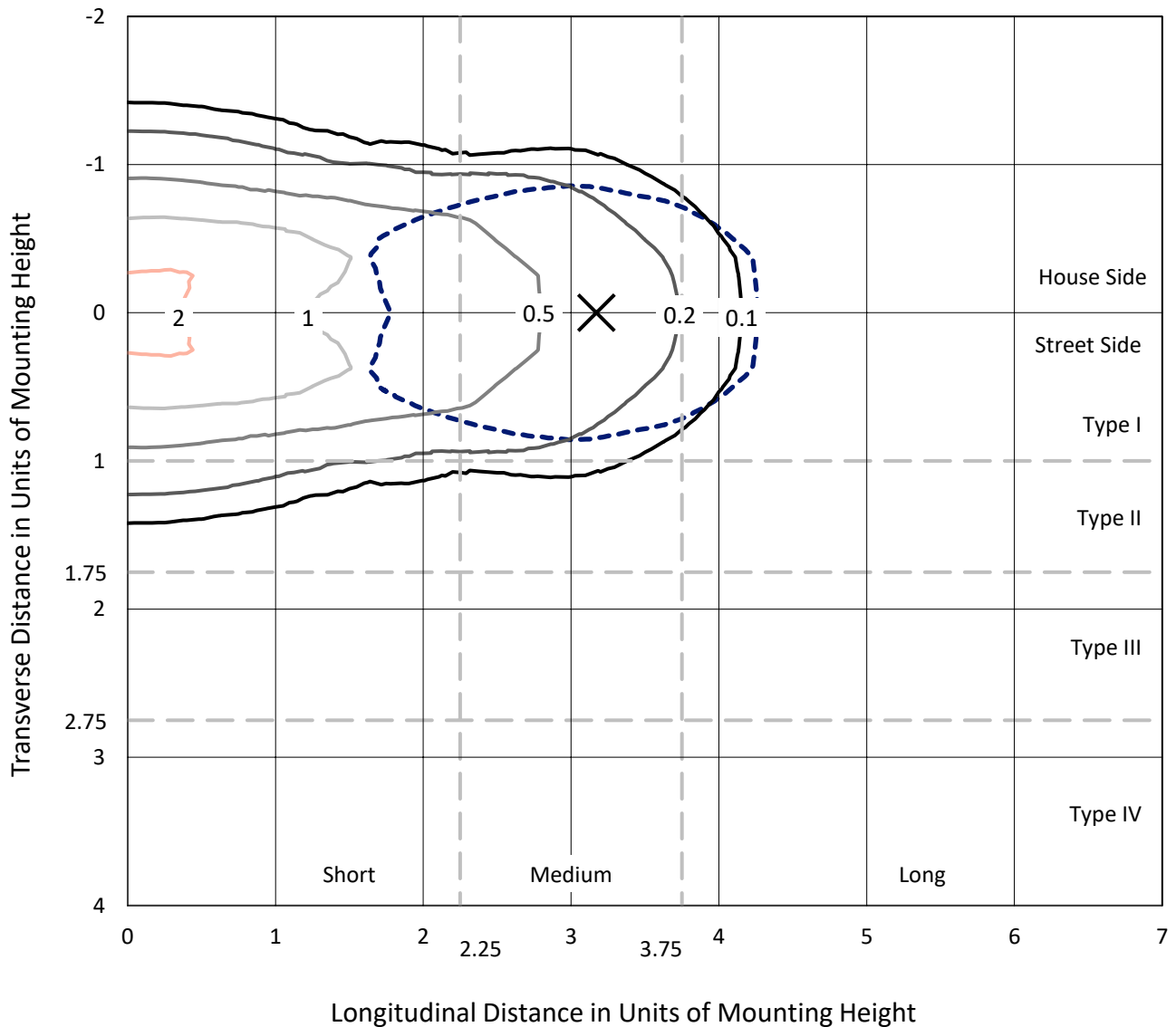
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

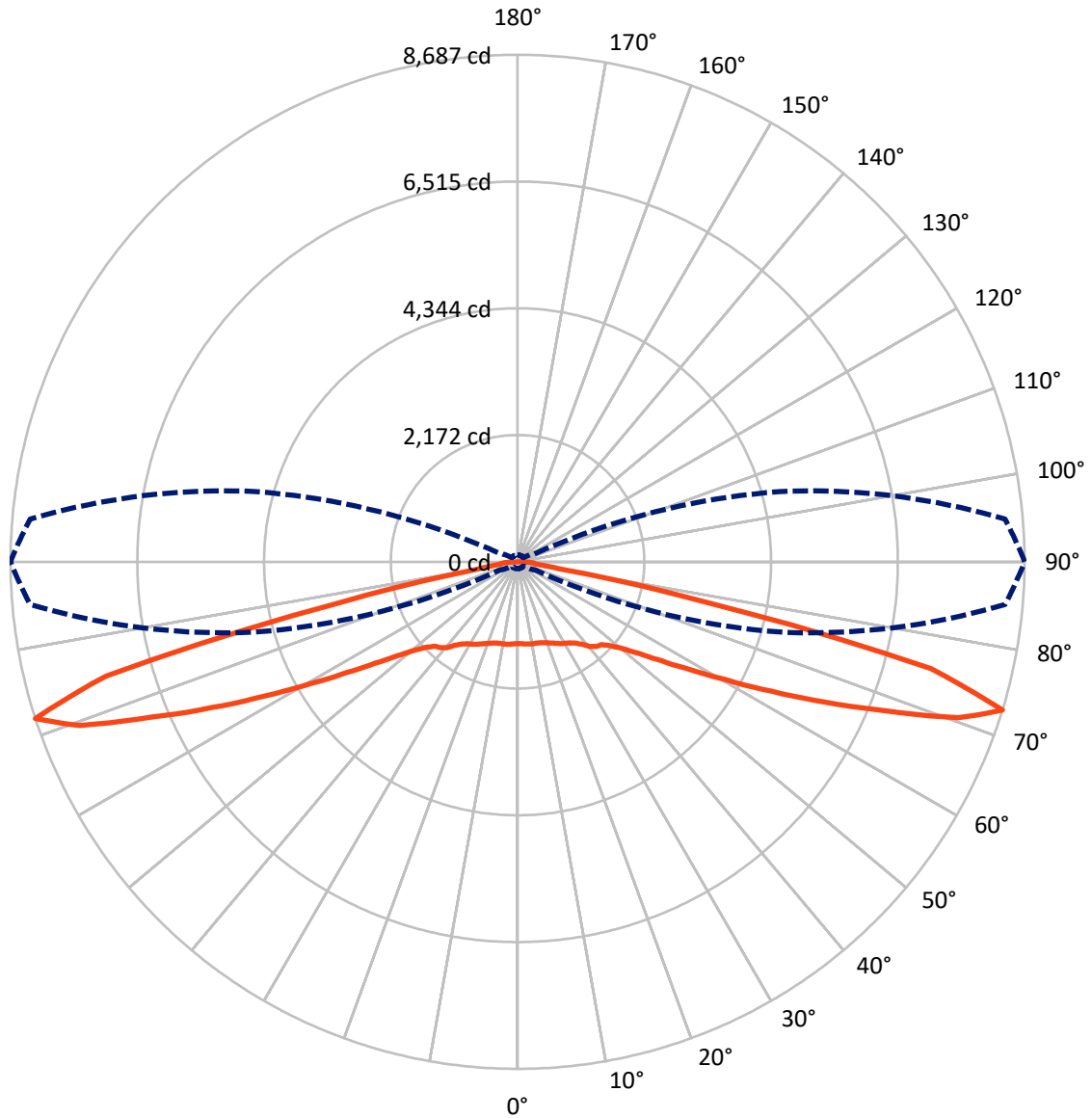
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3757.1	0.0	3757.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3757.1	0.0	3757.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7514.3	0.0	7514.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	1.8
10°-20°	416.3	5.5
20°-30°	694.1	9.2
30°-40°	954.6	12.7
40°-50°	1165.8	15.5
50°-60°	1348.4	17.9
60°-70°	1607.8	21.4
70°-80°	1122.1	14.9
80°-90°	68.9	0.9
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°	7514.3	100.0
0°-180°	7514.3	100.0

Coefficient of Utilization



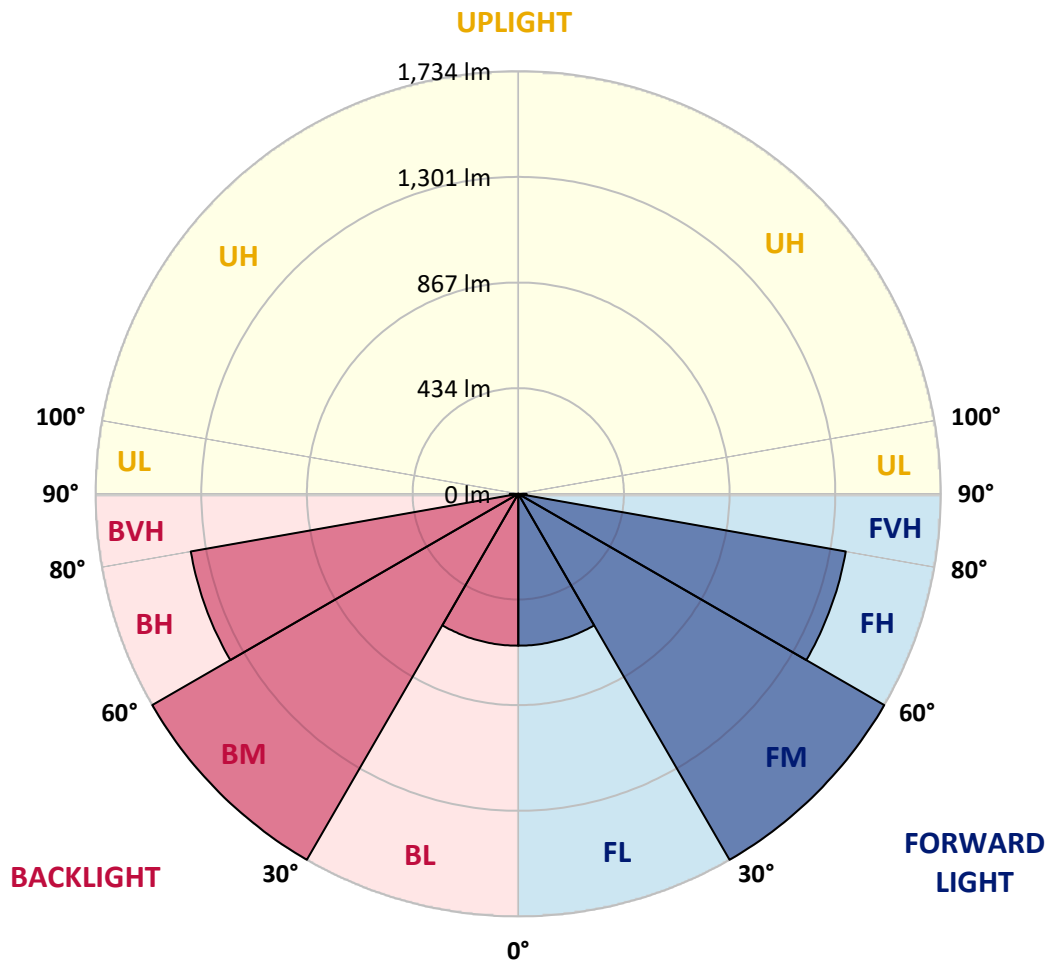
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.3	8.3			
FM (30°-60°)	1734.5	23.1			
FH (60°-80°)	1365.0	18.2			G1/1800
FVH (80°-90°)	34.5	0.5			G1/100
BL (0°-30°)	623.3	8.3	B2/1000		
BM (30°-60°)	1734.5	23.1	B2/2500		
BH (60°-80°)	1365.0	18.2	B3/2500		G3/2500
BVH (80°-90°)	34.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1	1404.1
2.5°	1405.3	1406.9	1406.9	1405.7	1408.6	1406.1	1406.1	1405.0	1406.1	1405.0	1405.0
5°	1412.6	1414.5	1415.3	1414.9	1418.5	1416.6	1416.6	1414.9	1415.3	1414.1	1414.1
7.5°	1426.1	1428.8	1430.5	1432.4	1437.7	1435.3	1433.7	1428.8	1426.9	1423.7	1423.7
10°	1430.5	1433.7	1438.9	1449.2	1461.2	1461.6	1456.8	1444.8	1435.7	1428.4	1427.3
12.5°	1416.9	1421.3	1432.0	1453.2	1480.0	1490.8	1483.2	1463.2	1445.2	1432.4	1430.5
15°	1399.7	1404.6	1420.9	1452.8	1492.4	1517.5	1516.7	1490.4	1461.6	1441.7	1438.5
17.5°	1373.0	1377.8	1401.3	1446.1	1501.9	1543.4	1554.7	1527.6	1487.2	1460.4	1456.0
20°	1324.6	1329.0	1361.8	1424.4	1505.1	1571.0	1600.2	1576.2	1525.9	1489.6	1482.8
22.5°	1262.0	1268.7	1307.1	1387.3	1497.5	1599.8	1652.1	1635.7	1571.0	1520.7	1511.6
25°	1194.8	1202.0	1246.8	1341.8	1478.0	1620.5	1713.6	1703.2	1622.2	1559.4	1546.7
27.5°	1136.9	1144.5	1193.3	1296.7	1447.6	1628.5	1774.3	1779.5	1684.1	1602.2	1588.6
30°	1091.4	1098.6	1150.6	1260.3	1408.6	1620.5	1827.5	1863.3	1747.2	1639.4	1619.8
32.5°	1041.5	1050.7	1105.4	1216.1	1362.2	1601.4	1873.8	1954.1	1820.3	1679.3	1654.6
35°	978.4	986.8	1044.3	1155.3	1301.4	1570.6	1912.5	2054.7	1924.8	1739.9	1712.5
37.5°	901.7	909.7	966.8	1079.4	1241.2	1527.6	1942.1	2168.1	2049.5	1827.5	1790.7
40°	824.6	832.3	885.8	994.8	1168.9	1472.4	1952.4	2279.1	2192.5	1947.6	1908.5
42.5°	754.0	760.8	809.9	911.3	1087.8	1402.1	1938.9	2375.7	2320.6	2031.5	1981.2
45°	688.9	694.8	738.4	833.0	1003.6	1316.6	1898.1	2479.6	2473.2	2091.4	2023.6
47.5°	614.6	620.6	665.7	757.2	919.3	1216.5	1829.0	2581.8	2685.2	2227.2	2148.9
50°	524.0	529.1	575.4	669.7	831.9	1109.8	1733.2	2662.1	2952.8	2432.8	2334.6
52.5°	416.6	422.1	467.2	561.5	728.1	995.2	1607.0	2714.4	3261.9	2733.2	2612.2
55°	309.9	313.9	353.0	437.7	599.4	864.6	1448.8	2729.2	3612.5	3143.7	2992.4
57.5°	224.9	227.2	252.4	315.5	454.5	701.3	1256.8	2690.8	4029.9	3670.0	3479.6
60°	182.1	182.9	190.4	218.4	315.9	516.8	1024.7	2559.0	4482.7	4348.6	4108.5
62.5°	165.3	165.3	167.3	174.9	213.6	341.0	743.9	2285.9	4968.4	5206.0	4884.4
65°	153.8	153.8	154.6	158.2	168.5	217.2	469.7	1841.0	5377.7	6210.4	5803.8
67.5°	143.4	143.8	143.4	144.5	150.6	160.5	272.3	1271.5	5598.1	7251.1	6812.2
70°	132.6	133.4	131.4	131.4	136.2	136.5	170.6	697.3	5415.2	8123.2	8007.8
72.5°	119.8	121.1	117.8	117.1	120.6	119.0	128.2	334.7	4649.3	8383.6	8687.1
75°	108.6	110.2	103.0	101.1	101.1	99.8	104.2	171.7	3017.5	6838.9	7314.9
77.5°	98.6	101.9	90.3	83.8	82.3	78.7	85.1	105.1	1319.9	3210.8	3144.1
80°	81.5	85.9	74.3	66.7	63.9	59.9	67.1	73.5	392.6	745.6	714.0
82.5°	60.7	62.7	52.7	47.6	45.1	42.3	50.3	51.1	127.8	263.9	298.3
85°	38.7	39.6	32.4	28.0	26.8	25.5	32.0	28.0	48.7	194.1	282.0
87.5°	13.5	15.6	12.4	11.2	12.0	9.9	14.8	8.4	13.5	136.9	169.7
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)