

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: P960319

Luminaire Tested: **NAV-SB1C-730-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960319
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-SB1C-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7596.3 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

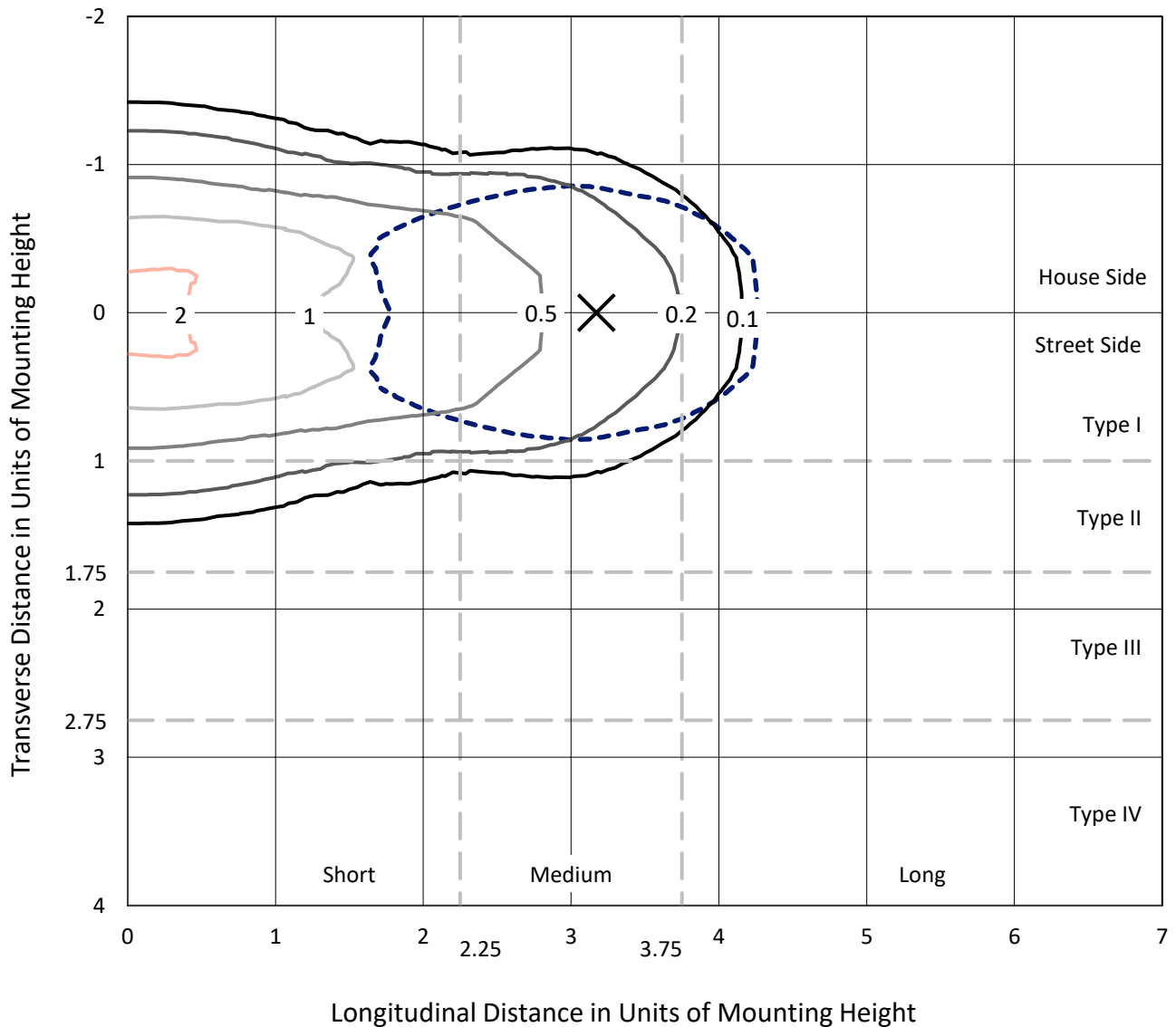
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

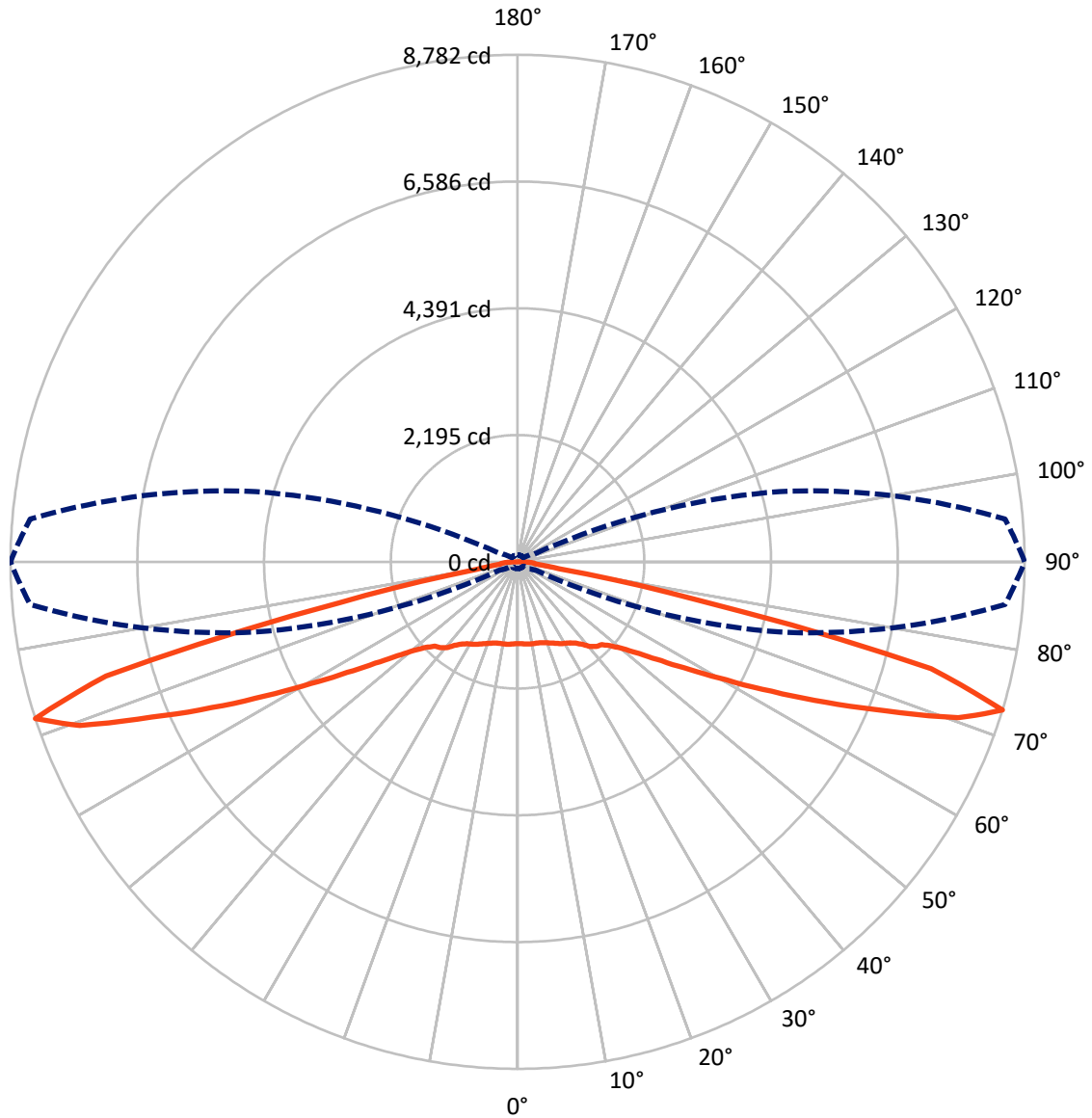
✕ Max cd
 - - - 1/2 Max cd



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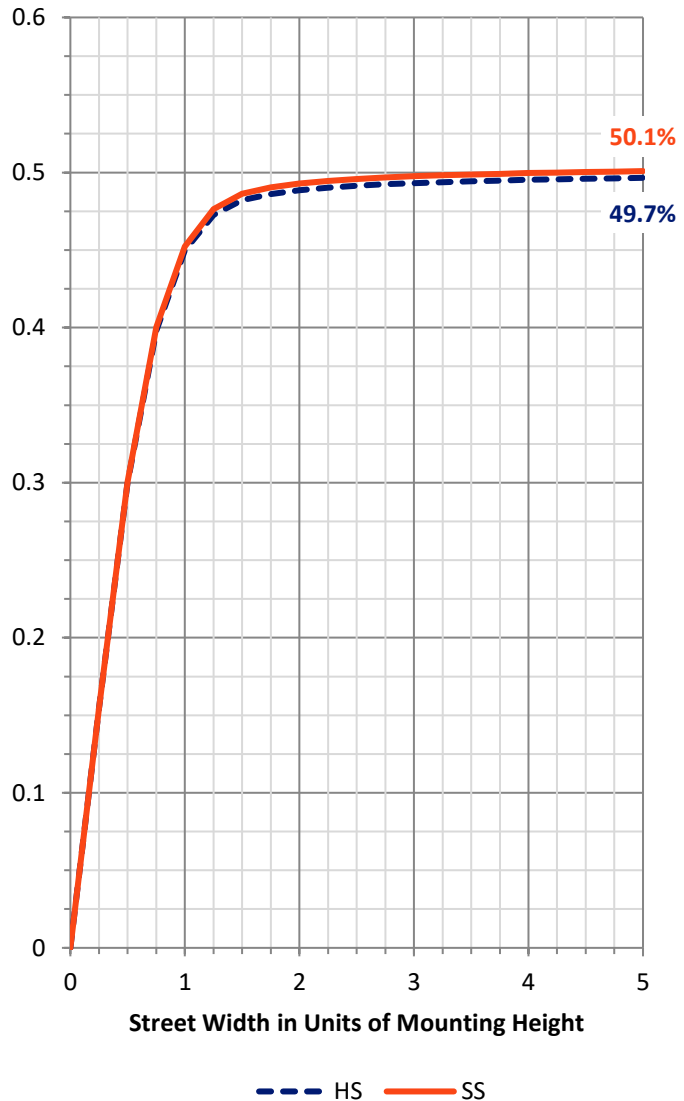
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3798.1	0.0	3798.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3798.1	0.0	3798.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7596.3	0.0	7596.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.8
10°-20°	420.8	5.5
20°-30°	701.7	9.2
30°-40°	965.0	12.7
40°-50°	1178.6	15.5
50°-60°	1363.1	17.9
60°-70°	1625.3	21.4
70°-80°	1134.4	14.9
80°-90°	69.7	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°	7596.3	100.0
0°-180°	7596.3	100.0

Coefficient of Utilization



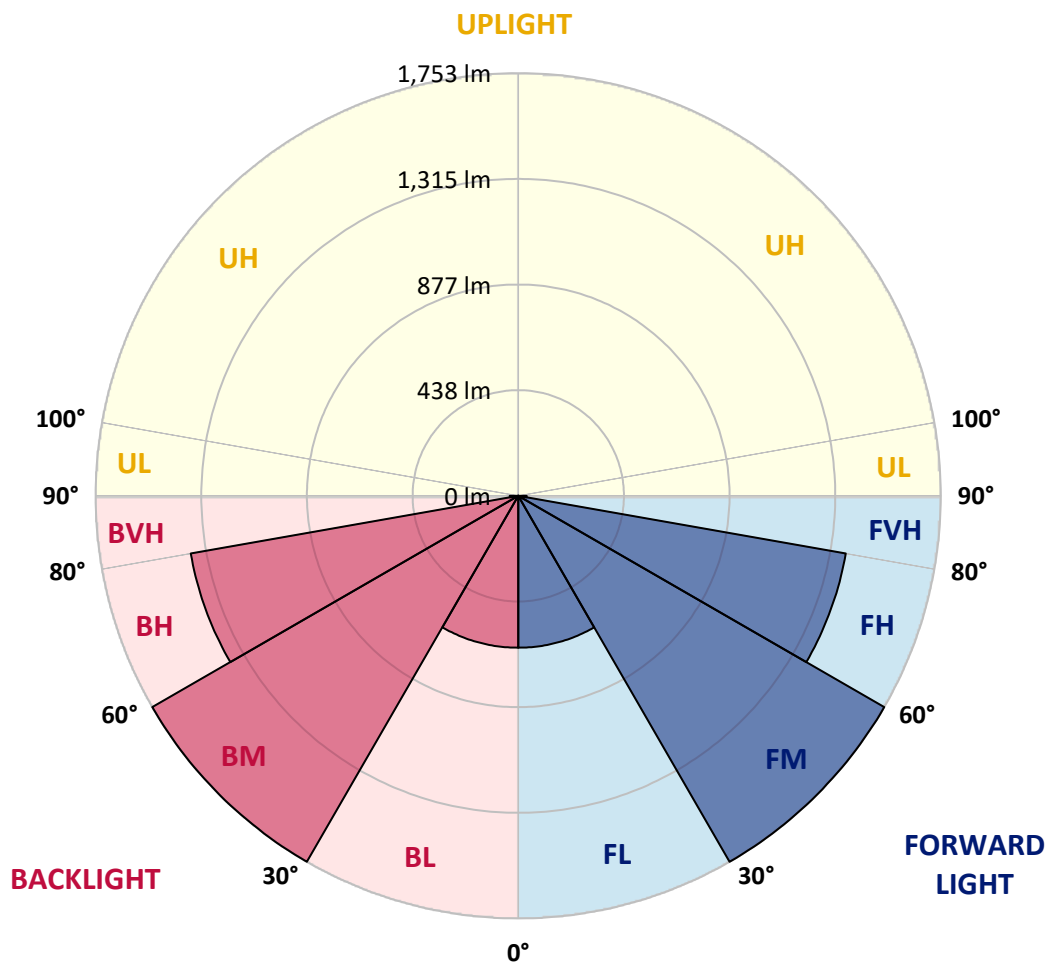
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.1	8.3			
FM (30°-60°)	1753.4	23.1			
FH (60°-80°)	1379.9	18.2			G1/1800
FVH (80°-90°)	34.8	0.5			G1/100
BL (0°-30°)	630.1	8.3	B2/1000		
BM (30°-60°)	1753.4	23.1	B2/2500		
BH (60°-80°)	1379.9	18.2	B3/2500		G3/2500
BVH (80°-90°)	34.8	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°	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4
2.5°	1420.6	1422.3	1422.3	1421.1	1423.9	1421.5	1421.5	1420.2	1421.5	1420.2	1420.2
5°	1427.9	1430.0	1430.8	1430.4	1434.0	1431.9	1431.9	1430.4	1430.8	1429.6	1429.6
7.5°	1441.7	1444.4	1446.1	1448.1	1453.3	1450.9	1449.4	1444.4	1442.5	1439.2	1439.2
10°	1446.1	1449.4	1454.6	1465.0	1477.1	1477.5	1472.7	1460.6	1451.3	1444.0	1442.9
12.5°	1432.3	1436.8	1447.7	1469.1	1496.2	1507.1	1499.4	1479.2	1461.0	1448.1	1446.1
15°	1415.0	1419.8	1436.4	1468.7	1508.7	1534.1	1533.3	1506.6	1477.5	1457.3	1454.2
17.5°	1388.0	1392.8	1416.7	1461.9	1518.3	1560.4	1571.6	1544.2	1503.4	1476.4	1471.9
20°	1339.1	1343.6	1376.7	1440.0	1521.6	1588.2	1617.7	1593.5	1542.6	1505.8	1499.0
22.5°	1275.7	1282.6	1321.3	1402.5	1513.9	1617.2	1670.1	1653.6	1588.2	1537.3	1528.1
25°	1207.9	1215.1	1260.3	1356.5	1494.1	1638.3	1732.4	1721.8	1639.9	1576.4	1563.5
27.5°	1149.3	1157.0	1206.3	1310.9	1463.5	1646.4	1793.6	1799.0	1702.4	1619.7	1606.0
30°	1103.3	1110.6	1163.1	1274.1	1423.9	1638.3	1847.4	1883.7	1766.3	1657.2	1637.4
32.5°	1052.9	1062.2	1117.5	1229.3	1377.1	1618.9	1894.2	1975.4	1840.1	1697.6	1672.6
35°	989.1	997.5	1055.8	1167.9	1315.7	1587.8	1933.4	2077.1	1945.9	1759.0	1731.1
37.5°	911.5	919.6	977.3	1091.2	1254.7	1544.2	1963.3	2191.8	2071.8	1847.4	1810.3
40°	833.6	841.3	895.4	1005.6	1181.6	1488.5	1973.7	2304.0	2216.4	1968.9	1929.4
42.5°	762.2	769.1	818.8	921.3	1099.7	1417.5	1960.0	2401.7	2345.9	2053.7	2002.8
45°	696.4	702.4	746.5	842.1	1014.5	1331.1	1918.8	2506.6	2500.2	2114.3	2045.6
47.5°	621.4	627.4	673.0	765.5	929.4	1229.7	1849.0	2610.0	2714.5	2251.5	2172.4
50°	529.6	534.9	581.8	677.0	840.9	1121.9	1752.1	2691.1	2985.0	2459.4	2360.1
52.5°	421.1	426.7	472.3	567.6	735.9	1006.0	1624.5	2744.0	3297.5	2763.0	2640.7
55°	313.2	317.3	356.9	442.5	606.0	874.0	1464.6	2759.0	3652.0	3178.0	3025.0
57.5°	227.2	229.7	255.1	319.0	459.4	708.9	1270.5	2720.2	4073.9	3710.1	3517.5
60°	184.1	184.9	192.6	220.8	319.3	522.4	1036.0	2587.0	4531.6	4396.0	4153.4
62.5°	167.2	167.2	169.1	176.8	216.0	344.8	752.1	2310.9	5022.6	5262.8	4937.7
65°	155.4	155.4	156.2	159.9	170.4	219.7	474.8	1861.1	5436.4	6278.1	5867.1
67.5°	144.9	145.3	144.9	146.2	152.2	162.3	275.3	1285.5	5659.2	7330.2	6886.5
70°	134.1	134.9	132.8	132.8	137.7	138.1	172.4	704.9	5474.3	8211.9	8095.1
72.5°	121.2	122.3	119.1	118.3	121.9	120.3	129.6	338.4	4700.0	8475.1	8781.9
75°	109.8	111.4	104.1	102.1	102.1	101.0	105.4	173.6	3050.4	6913.5	7394.8
77.5°	99.7	102.9	91.2	84.8	83.1	79.5	86.0	106.2	1334.2	3245.9	3178.4
80°	82.3	86.8	75.1	67.4	64.6	60.6	67.9	74.3	396.9	753.7	721.8
82.5°	61.4	63.3	53.3	48.1	45.6	42.7	50.8	51.7	129.1	266.8	301.6
85°	39.2	40.0	32.7	28.3	27.1	25.8	32.3	28.3	49.3	196.2	285.1
87.5°	13.7	15.8	12.5	11.3	12.1	10.0	15.0	8.5	13.7	138.5	171.6
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)