

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: P963467

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963467
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-SB3A-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13954.4 lumens
Efficiency: N/A
Efficacy: 164.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

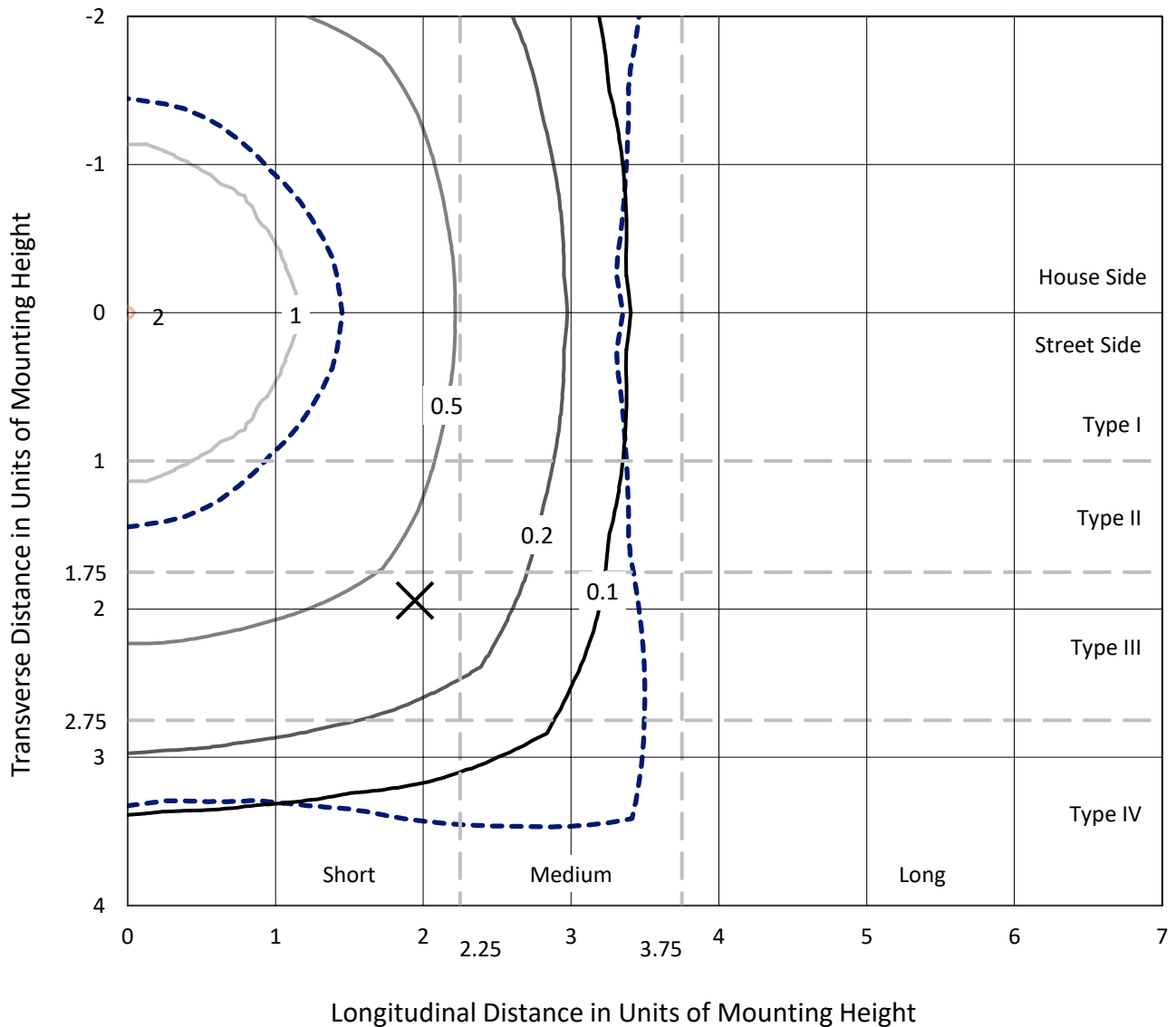
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

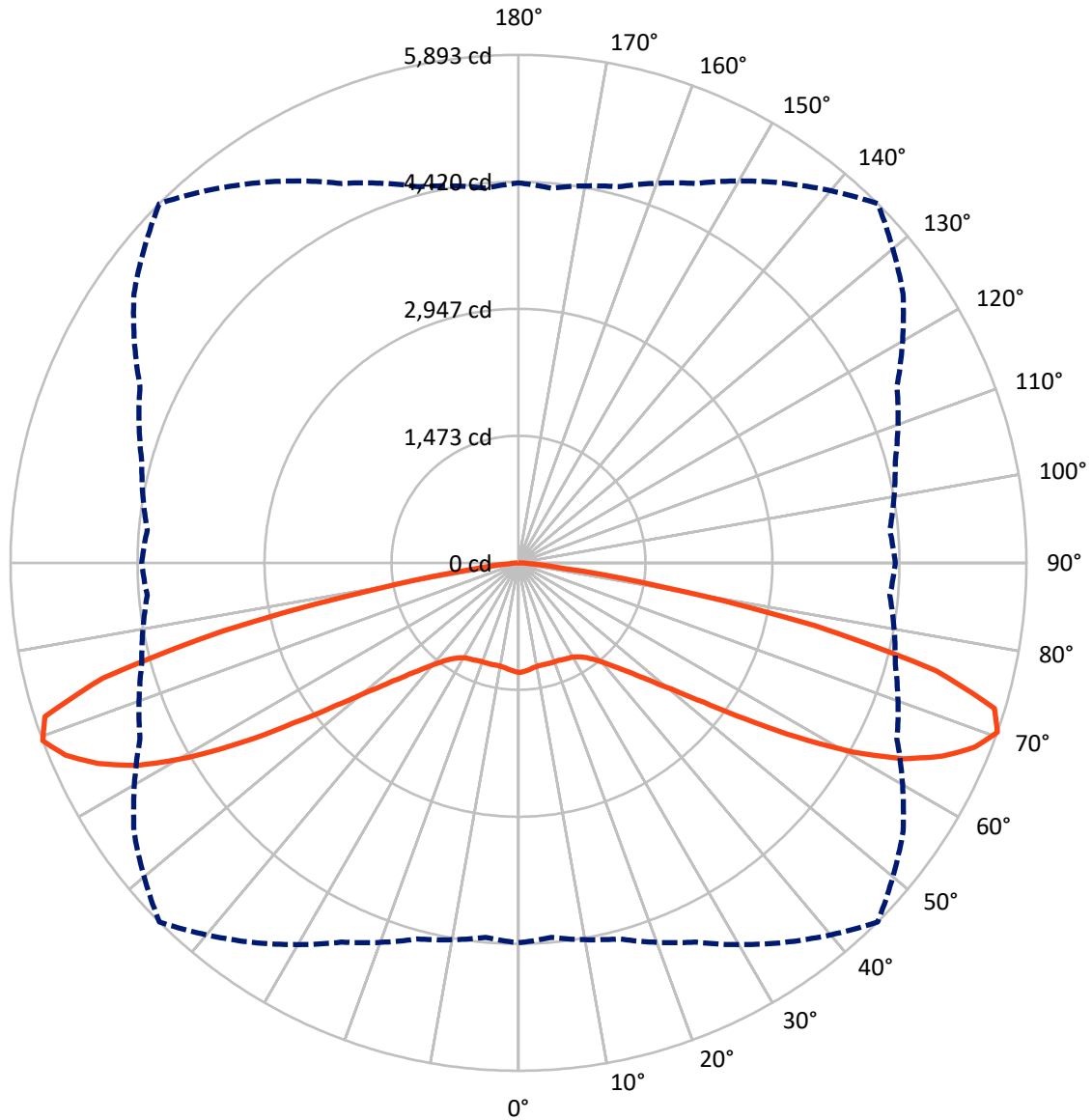
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	6977.2	0.0	6977.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6977.2	0.0	6977.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	13954.4	0.0	13954.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	0.8
10°-20°	347.7	2.5
20°-30°	578.6	4.1
30°-40°	875.0	6.3
40°-50°	1454.1	10.4
50°-60°	2743.8	19.7
60°-70°	4633.0	33.2
70°-80°	3044.3	21.8
80°-90°	159.5	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°	13954.4	100.0
0°-180°	13954.4	100.0

Coefficient of Utilization



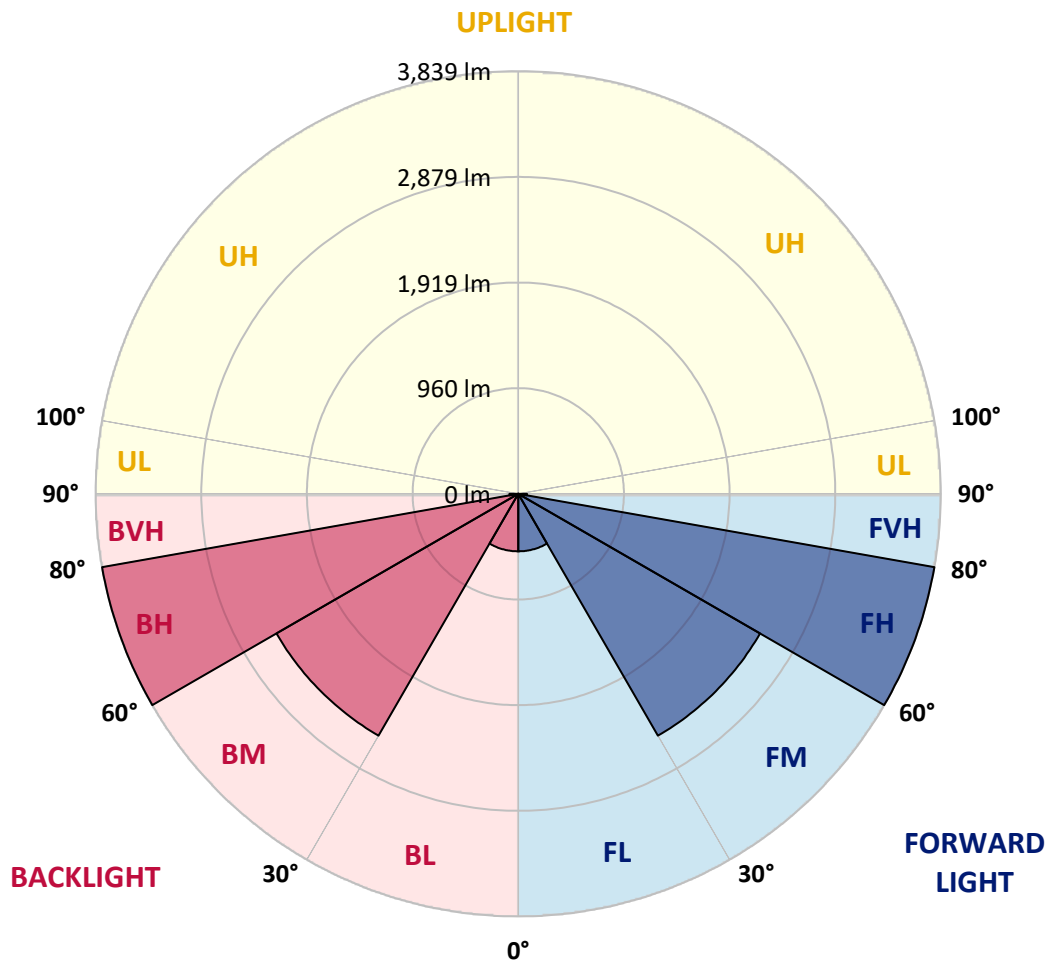
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.3	3.7			
FM (30°-60°)	2536.4	18.2			
FH (60°-80°)	3838.7	27.5			G2/5000
FVH (80°-90°)	79.7	0.6			G1/100
BL (0°-30°)	522.3	3.7	B2/1000		
BM (30°-60°)	2536.4	18.2	B3/5000		
BH (60°-80°)	3838.7	27.5	B4/5000		G2/5000
BVH (80°-90°)	79.7	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°	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9	1272.9
2.5°	1265.0	1268.5	1267.1	1264.2	1264.2	1262.1	1264.2	1265.7	1267.8	1269.3	1268.5
5°	1248.2	1251.1	1250.4	1248.2	1249.0	1246.8	1248.2	1250.4	1251.8	1252.7	1252.7
7.5°	1233.8	1236.7	1235.2	1231.5	1231.5	1229.4	1230.1	1232.3	1234.5	1235.2	1235.2
10°	1230.1	1233.1	1228.7	1222.8	1220.7	1217.8	1218.5	1220.7	1225.1	1227.2	1227.2
12.5°	1231.5	1233.8	1229.4	1220.7	1218.5	1215.6	1215.6	1217.8	1223.6	1226.5	1227.2
15°	1235.9	1238.1	1231.5	1222.1	1220.0	1217.8	1217.1	1220.0	1226.5	1231.5	1232.3
17.5°	1243.9	1246.1	1235.9	1222.8	1220.0	1220.7	1220.0	1222.1	1232.3	1241.7	1241.7
20°	1251.1	1252.7	1238.8	1222.8	1220.0	1220.7	1220.0	1224.4	1237.4	1250.4	1251.1
22.5°	1253.4	1254.8	1241.7	1227.9	1225.8	1226.5	1225.8	1230.1	1242.5	1255.5	1255.5
25°	1254.1	1256.2	1246.1	1235.2	1238.8	1240.2	1238.8	1239.5	1249.0	1260.5	1259.8
27.5°	1265.0	1267.8	1258.4	1249.0	1251.1	1250.4	1252.7	1254.8	1262.1	1273.7	1270.7
30°	1287.4	1289.6	1281.7	1272.2	1270.7	1265.7	1272.2	1279.4	1287.4	1297.5	1295.4
32.5°	1324.4	1328.8	1318.7	1308.4	1302.0	1299.0	1304.1	1316.4	1327.3	1338.2	1333.8
35°	1386.1	1389.0	1379.5	1360.7	1349.1	1349.1	1353.4	1369.4	1386.8	1400.6	1395.5
37.5°	1473.1	1476.7	1460.0	1437.6	1420.1	1420.1	1426.0	1442.7	1468.7	1488.3	1481.1
40°	1579.0	1584.0	1563.0	1539.9	1523.1	1520.3	1527.5	1546.3	1571.0	1595.7	1587.7
42.5°	1706.6	1712.5	1684.9	1664.6	1651.5	1651.5	1655.2	1672.6	1695.0	1725.5	1723.3
45°	1869.8	1880.0	1842.3	1821.9	1809.6	1812.5	1814.8	1829.9	1850.2	1885.1	1883.6
47.5°	2064.2	2074.4	2034.5	2013.4	2011.3	2025.1	2016.4	2027.2	2038.1	2078.0	2066.4
50°	2284.7	2302.1	2274.6	2273.1	2277.4	2302.9	2282.6	2288.3	2276.0	2301.4	2286.2
52.5°	2554.5	2579.9	2574.8	2583.5	2632.1	2684.4	2637.9	2617.6	2571.2	2579.2	2552.4
55°	2881.7	2920.1	2927.3	2979.6	3089.9	3196.5	3097.8	3015.9	2917.1	2899.1	2870.8
57.5°	3253.8	3284.2	3319.1	3425.7	3631.6	3820.9	3631.6	3450.3	3295.1	3258.1	3231.9
60°	3654.1	3691.8	3725.2	3882.6	4188.7	4454.9	4182.8	3894.9	3689.7	3639.6	3596.1
62.5°	4084.2	4132.8	4156.1	4330.8	4687.6	5005.4	4692.8	4343.8	4116.1	4062.5	4018.9
65°	4496.9	4536.9	4562.9	4749.3	5090.3	5408.6	5113.4	4769.6	4535.3	4465.0	4430.2
67.5°	4689.2	4710.9	4774.8	4985.8	5345.6	5708.9	5406.5	5008.3	4746.5	4623.2	4624.6
70°	4407.7	4363.4	4517.2	4855.2	5376.0	5893.1	5445.6	4845.1	4524.5	4324.3	4372.1
72.5°	3406.1	3329.9	3596.8	4174.9	5027.8	5775.7	5062.7	4207.5	3762.9	3356.8	3457.5
75°	1853.2	1766.9	2135.3	2866.4	4009.5	5006.1	4101.6	2948.4	2377.6	1839.4	1959.1
77.5°	523.0	490.4	787.7	1386.8	2411.6	3514.8	2504.5	1417.3	934.2	554.1	615.8
80°	160.3	155.2	210.3	417.8	1024.2	1683.5	984.2	422.8	267.6	169.0	178.5
82.5°	95.0	87.0	104.4	152.3	261.1	528.8	253.9	158.9	127.6	85.6	92.9
85°	54.4	50.7	61.6	74.0	87.7	112.4	73.3	75.4	68.2	45.7	47.9
87.5°	22.4	20.3	24.0	23.2	20.3	26.1	19.6	23.2	27.6	18.1	16.7
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)