

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: P962382

Luminaire Tested: **NAV-SB2C-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962382
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-SB2C-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14402.3 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

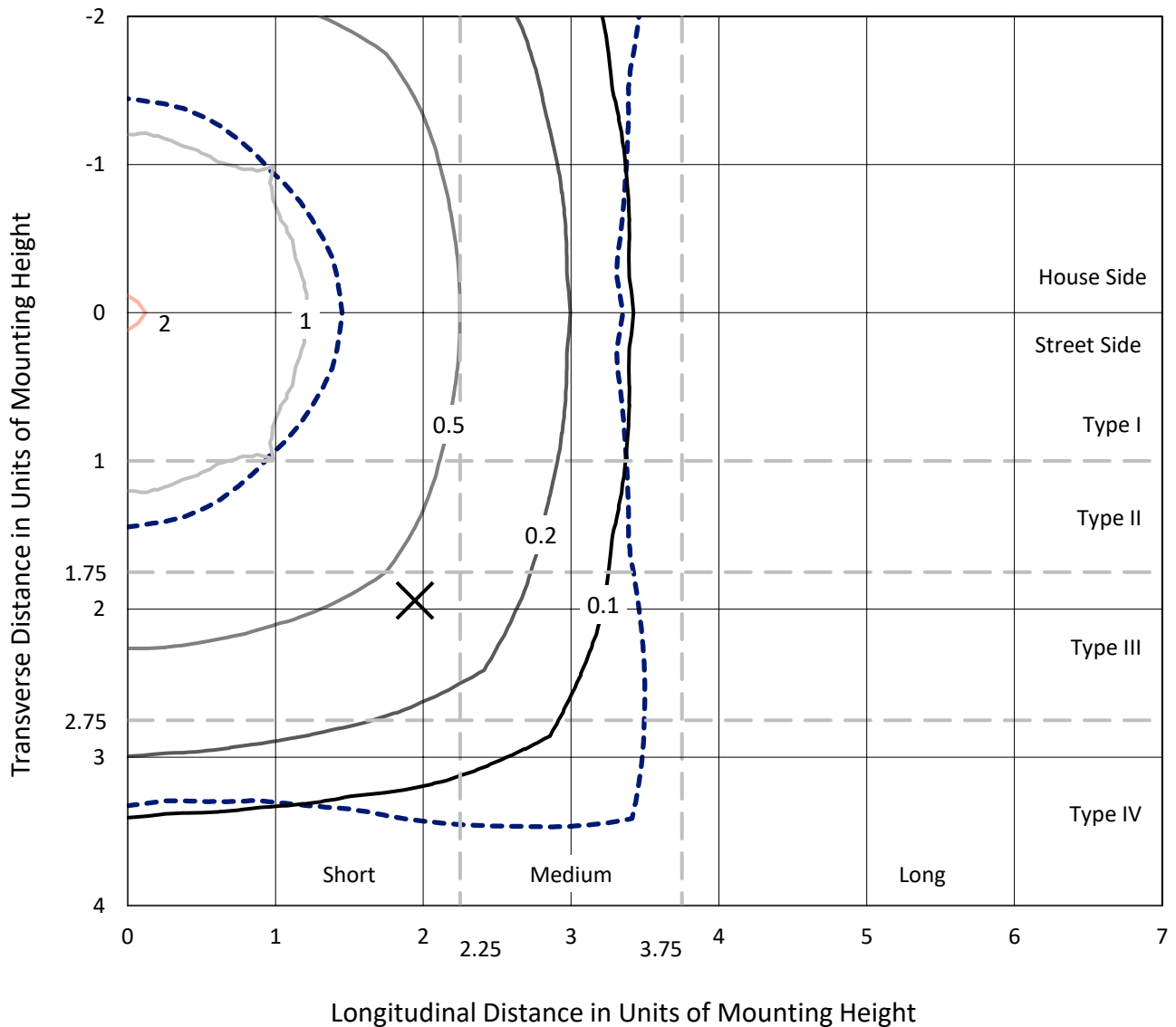
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

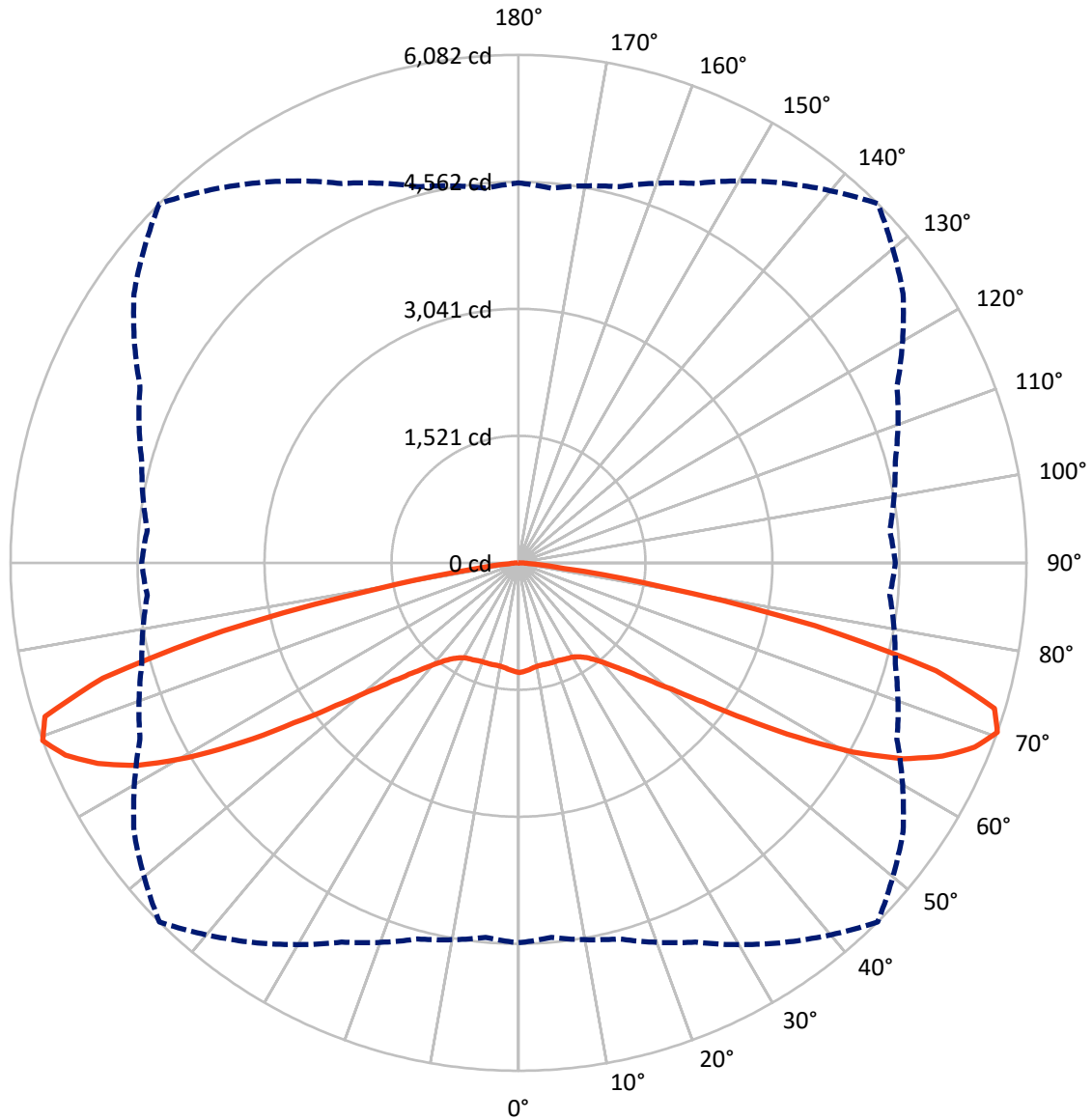
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	7201.1	0.0	7201.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7201.1	0.0	7201.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	14402.3	0.0	14402.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	0.8
10°-20°	358.8	2.5
20°-30°	597.2	4.1
30°-40°	903.1	6.3
40°-50°	1500.7	10.4
50°-60°	2831.8	19.7
60°-70°	4781.7	33.2
70°-80°	3142.1	21.8
80°-90°	164.6	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°	14402.3	100.0
0°-180°	14402.3	100.0

Coefficient of Utilization

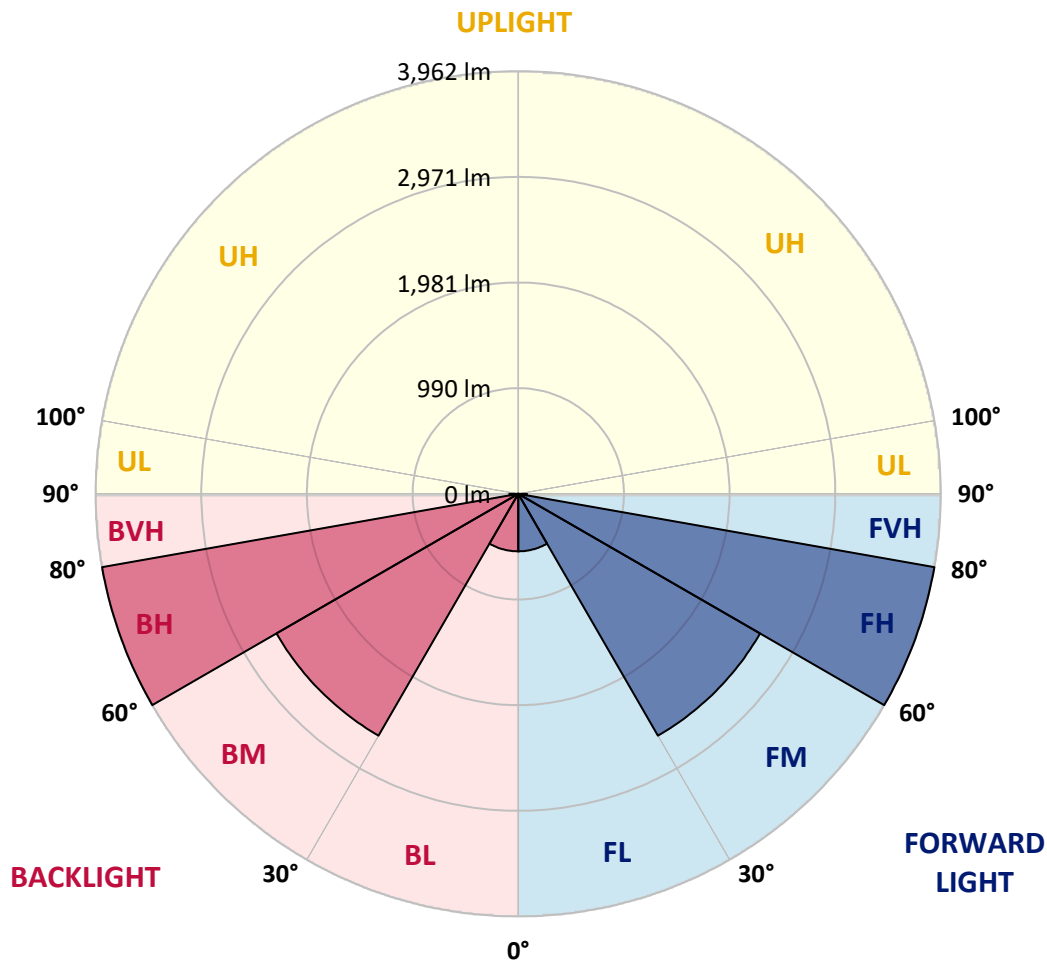


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	539.1	3.7			
FM (30°-60°)	2617.8	18.2			
FH (60°-80°)	3961.9	27.5			G2/5000
FVH (80°-90°)	82.3	0.6			G1/100
BL (0°-30°)	539.1	3.7	B2/1000		
BM (30°-60°)	2617.8	18.2	B3/5000		
BH (60°-80°)	3961.9	27.5	B4/5000		G2/5000
BVH (80°-90°)	82.3	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°	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7	1313.7
2.5°	1305.5	1309.3	1307.8	1304.8	1304.8	1302.6	1304.8	1306.3	1308.5	1310.1	1309.3
5°	1288.3	1291.3	1290.6	1288.3	1289.0	1286.8	1288.3	1290.6	1292.1	1292.8	1292.8
7.5°	1273.4	1276.3	1274.9	1271.1	1271.1	1268.8	1269.6	1271.8	1274.1	1274.9	1274.9
10°	1269.6	1272.6	1268.1	1262.1	1259.9	1256.9	1257.7	1259.9	1264.3	1266.6	1266.6
12.5°	1271.1	1273.4	1268.8	1259.9	1257.7	1254.6	1254.6	1256.9	1262.9	1265.9	1266.6
15°	1275.6	1277.9	1271.1	1261.4	1259.1	1256.9	1256.1	1259.1	1265.9	1271.1	1271.8
17.5°	1283.8	1286.1	1275.6	1262.1	1259.1	1259.9	1259.1	1261.4	1271.8	1281.6	1281.6
20°	1291.3	1292.8	1278.6	1262.1	1259.1	1259.9	1259.1	1263.6	1277.0	1290.6	1291.3
22.5°	1293.6	1295.1	1281.6	1267.4	1265.2	1265.9	1265.2	1269.6	1282.4	1295.8	1295.8
25°	1294.3	1296.5	1286.1	1274.9	1278.6	1280.1	1278.6	1279.3	1289.0	1301.0	1300.3
27.5°	1305.5	1308.5	1298.8	1289.0	1291.3	1290.6	1292.8	1295.1	1302.6	1314.6	1311.5
30°	1328.7	1331.0	1322.8	1313.0	1311.5	1306.3	1313.0	1320.5	1328.7	1339.3	1337.0
32.5°	1366.9	1371.4	1360.9	1350.4	1343.7	1340.7	1345.9	1358.7	1369.9	1381.2	1376.7
35°	1430.6	1433.6	1423.8	1404.4	1392.4	1392.4	1396.9	1413.4	1431.3	1445.6	1440.3
37.5°	1520.4	1524.2	1507.0	1483.7	1465.7	1465.7	1471.7	1488.9	1515.9	1536.1	1528.6
40°	1629.6	1634.9	1613.2	1589.3	1572.0	1569.1	1576.6	1596.0	1621.4	1646.9	1638.7
42.5°	1761.5	1767.4	1739.0	1718.0	1704.6	1704.6	1708.3	1726.2	1749.5	1780.9	1778.7
45°	1929.9	1940.3	1901.4	1880.5	1867.8	1870.7	1873.0	1888.7	1909.7	1945.6	1944.1
47.5°	2130.5	2141.0	2099.8	2078.1	2075.8	2090.1	2081.1	2092.3	2103.5	2144.7	2132.7
50°	2358.0	2376.1	2347.6	2346.1	2350.5	2376.8	2355.9	2361.8	2349.1	2375.2	2359.5
52.5°	2636.5	2662.7	2657.5	2666.4	2716.7	2770.6	2722.6	2701.7	2653.7	2662.0	2634.2
55°	2974.1	3013.8	3021.3	3075.2	3189.0	3299.1	3197.3	3112.6	3010.8	2992.1	2963.0
57.5°	3358.2	3389.6	3425.6	3535.6	3748.2	3943.6	3748.2	3561.1	3400.8	3362.7	3335.8
60°	3771.4	3810.3	3844.8	4007.2	4323.1	4597.8	4317.1	4019.9	3808.1	3756.4	3711.5
62.5°	4215.3	4265.4	4289.4	4469.8	4838.1	5166.0	4843.4	4483.3	4248.2	4192.9	4148.0
65°	4641.3	4682.4	4709.4	4901.8	5253.6	5582.3	5277.5	4922.8	4681.0	4608.3	4572.4
67.5°	4839.6	4862.1	4928.0	5145.8	5517.2	5892.1	5580.0	5169.0	4898.8	4771.5	4773.0
70°	4549.2	4503.5	4662.2	5011.0	5548.5	6082.3	5620.4	5000.6	4669.7	4463.1	4512.5
72.5°	3515.3	3436.8	3712.2	4308.9	5189.3	5961.0	5225.1	4342.6	3883.7	3464.5	3568.5
75°	1912.6	1823.6	2203.9	2958.5	4138.2	5166.8	4233.2	3043.0	2453.8	1898.4	2021.9
77.5°	539.8	506.0	812.9	1431.3	2489.1	3627.7	2584.8	1462.8	964.2	571.9	635.6
80°	165.4	160.2	217.1	431.2	1057.0	1737.5	1015.9	436.4	276.2	174.5	184.2
82.5°	98.1	89.8	107.8	157.2	269.5	545.7	262.0	163.9	131.7	88.4	95.8
85°	56.2	52.4	63.7	76.4	90.6	116.0	75.6	77.9	70.4	47.2	49.4
87.5°	23.2	20.9	24.7	24.0	20.9	27.0	20.2	24.0	28.5	18.8	17.2
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)