

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: P883652

Luminaire Tested: **NAV-SB4A-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15515 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

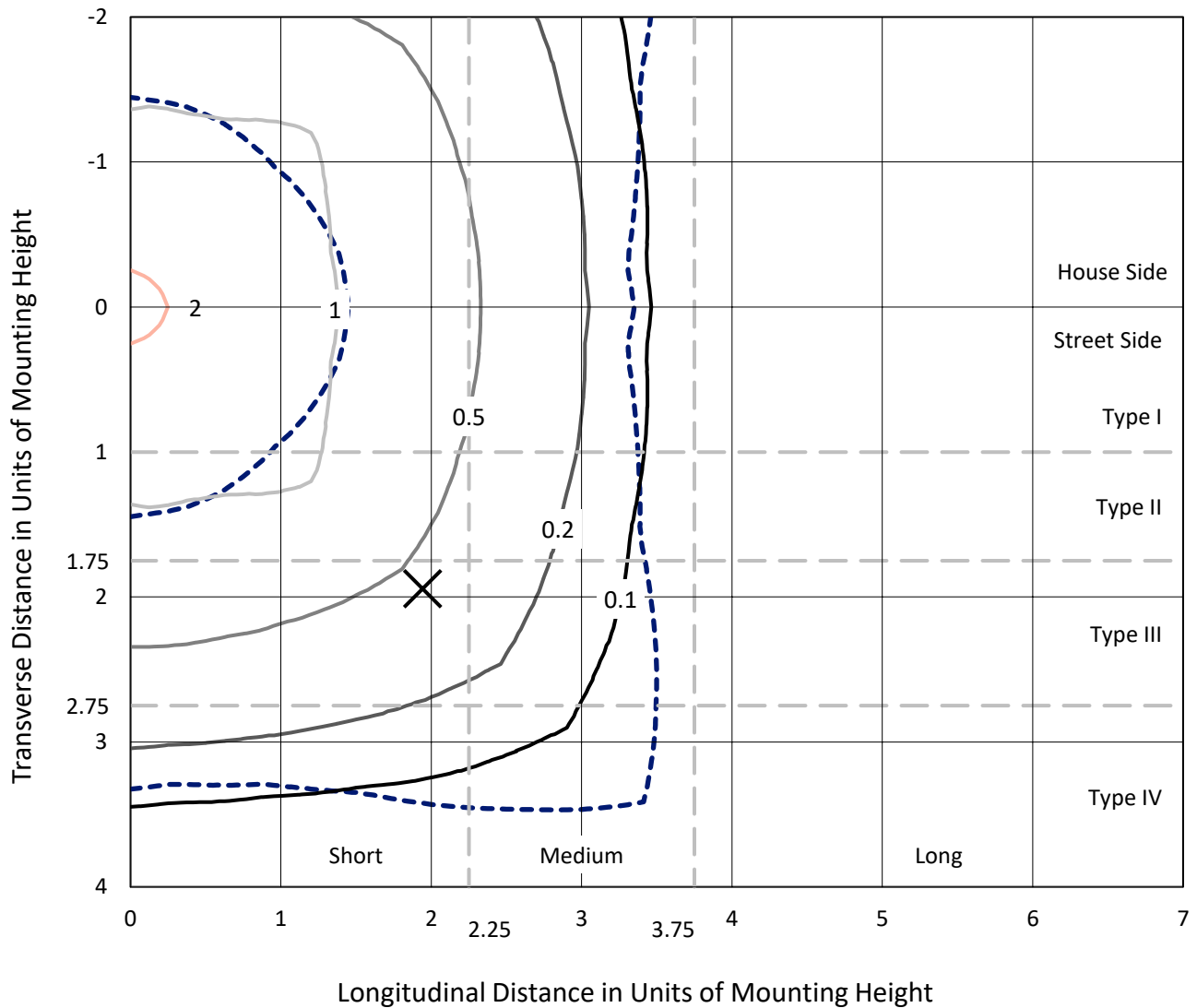
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

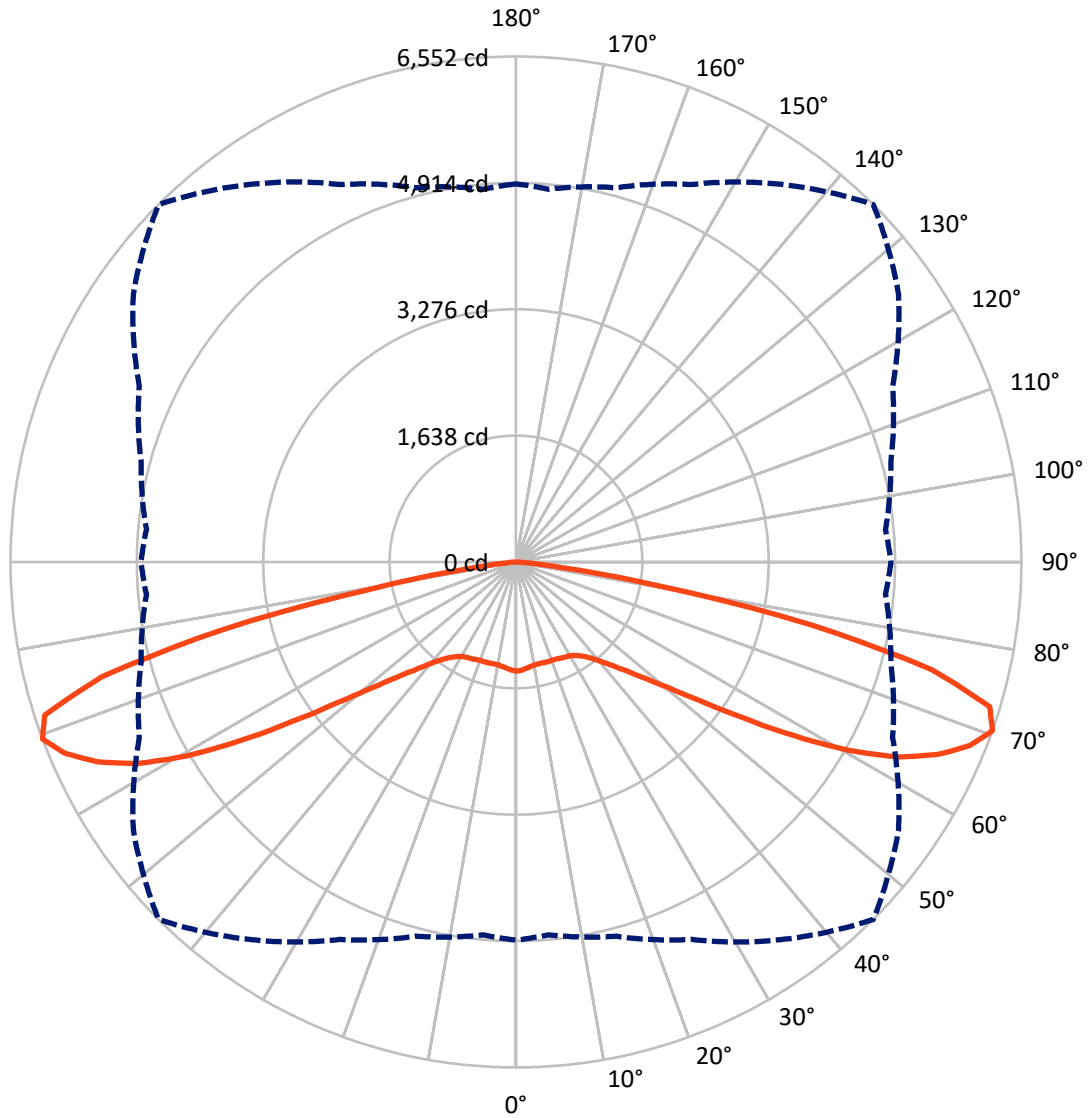
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type 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	7757.5	0.0	7757.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7757.5	0.0	7757.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15515.0	0.0	15515.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	0.8
10°-20°	386.6	2.5
20°-30°	643.3	4.1
30°-40°	972.9	6.3
40°-50°	1616.7	10.4
50°-60°	3050.6	19.7
60°-70°	5151.1	33.2
70°-80°	3384.8	21.8
80°-90°	177.3	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°	15515.0	100.0
0°-180°	15515.0	100.0



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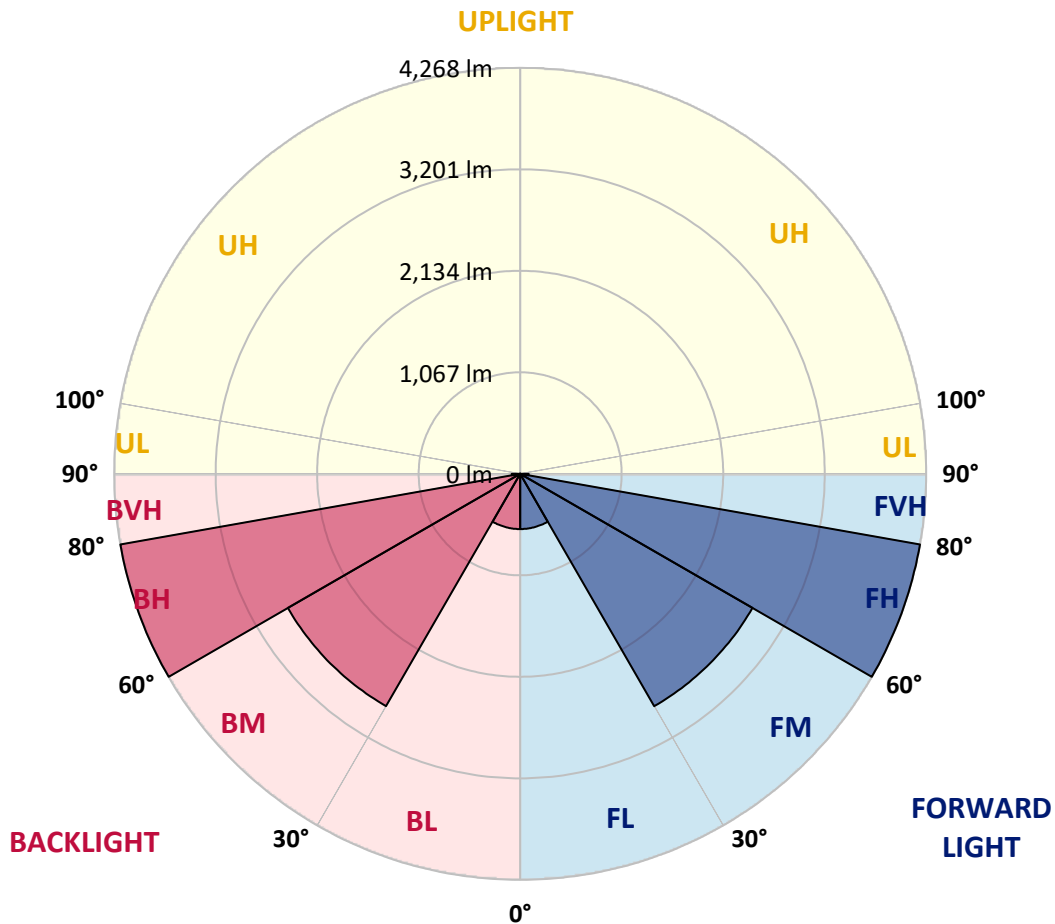
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.8	3.7			
FM (30°-60°)	2820.1	18.2			
FH (60°-80°)	4268.0	27.5			G2/5000
FVH (80°-90°)	88.7	0.6			G1/100
BL (0°-30°)	580.8	3.7	B2/1000		
BM (30°-60°)	2820.1	18.2	B3/5000		
BH (60°-80°)	4268.0	27.5	B4/5000		G2/5000
BVH (80°-90°)	88.7	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°	1415.3	1415.3	1415.3	1415.3	1415.3	1415.3	1415.3	1415.3	1415.3	1415.3	1415.3
2.5°	1406.4	1410.4	1408.8	1405.6	1405.6	1403.2	1405.6	1407.2	1409.6	1411.2	1410.4
5°	1387.9	1391.1	1390.3	1387.9	1388.7	1386.2	1387.9	1390.3	1391.9	1392.7	1392.7
7.5°	1371.7	1375.0	1373.3	1369.3	1369.3	1366.9	1367.7	1370.1	1372.5	1373.3	1373.3
10°	1367.7	1370.9	1366.1	1359.6	1357.2	1354.0	1354.8	1357.2	1362.1	1364.5	1364.5
12.5°	1369.3	1371.7	1366.9	1357.2	1354.8	1351.6	1351.6	1354.0	1360.4	1363.7	1364.5
15°	1374.2	1376.6	1369.3	1358.8	1356.4	1354.0	1353.2	1356.4	1363.7	1369.3	1370.1
17.5°	1383.0	1385.4	1374.2	1359.6	1356.4	1357.2	1356.4	1358.8	1370.1	1380.6	1380.6
20°	1391.1	1392.7	1377.4	1359.6	1356.4	1357.2	1356.4	1361.2	1375.8	1390.3	1391.1
22.5°	1393.5	1395.1	1380.6	1365.3	1362.9	1363.7	1362.9	1367.7	1381.4	1395.9	1395.9
25°	1394.3	1396.7	1385.4	1373.3	1377.4	1379.0	1377.4	1378.2	1388.7	1401.6	1400.8
27.5°	1406.4	1409.6	1399.2	1388.7	1391.1	1390.3	1392.7	1395.1	1403.2	1416.1	1412.9
30°	1431.4	1433.8	1425.0	1414.5	1412.9	1407.2	1414.5	1422.5	1431.4	1442.7	1440.3
32.5°	1472.5	1477.4	1466.1	1454.8	1447.5	1444.3	1450.0	1463.7	1475.8	1487.9	1483.0
35°	1541.1	1544.3	1533.8	1512.9	1500.0	1500.0	1504.8	1522.5	1541.9	1557.2	1551.6
37.5°	1637.9	1641.9	1623.3	1598.3	1579.0	1579.0	1585.4	1604.0	1633.0	1654.8	1646.7
40°	1755.6	1761.2	1737.9	1712.0	1693.5	1690.3	1698.3	1719.3	1746.7	1774.1	1765.3
42.5°	1897.5	1904.0	1873.3	1850.8	1836.2	1836.2	1840.3	1859.6	1884.6	1918.5	1916.1
45°	2079.0	2090.3	2048.3	2025.7	2012.0	2015.3	2017.7	2034.6	2057.2	2095.9	2094.3
47.5°	2295.1	2306.4	2262.0	2238.6	2236.2	2251.5	2241.9	2254.0	2266.1	2310.4	2297.5
50°	2540.2	2559.6	2529.0	2527.3	2532.2	2560.4	2537.8	2544.3	2530.6	2558.8	2541.9
52.5°	2840.2	2868.5	2862.8	2872.5	2926.5	2984.6	2933.0	2910.4	2858.8	2867.7	2837.8
55°	3203.9	3246.7	3254.7	3312.8	3435.4	3553.9	3444.3	3353.1	3243.5	3223.3	3191.8
57.5°	3617.6	3651.5	3690.2	3808.8	4037.8	4248.3	4037.8	3836.2	3663.6	3622.5	3593.4
60°	4062.8	4104.7	4141.8	4316.8	4657.1	4953.1	4650.7	4330.5	4102.3	4046.7	3998.3
62.5°	4541.0	4595.0	4620.8	4815.2	5211.9	5565.2	5217.6	4829.7	4576.5	4516.8	4468.4
65°	4999.9	5044.2	5073.2	5280.5	5659.5	6013.5	5685.3	5303.1	5042.6	4964.4	4925.7
67.5°	5213.6	5237.7	5308.7	5543.4	5943.4	6347.4	6011.1	5568.4	5277.3	5140.2	5141.8
70°	4900.7	4851.5	5022.4	5398.2	5977.2	6552.2	6054.7	5386.9	5030.5	4807.9	4861.1
72.5°	3787.0	3702.3	3999.1	4641.8	5590.2	6421.6	5628.9	4678.1	4183.7	3732.1	3844.2
75°	2060.4	1964.5	2374.1	3187.0	4457.9	5566.0	4560.3	3278.1	2643.5	2045.1	2178.2
77.5°	581.4	545.1	875.8	1541.9	2681.4	3907.9	2784.6	1575.8	1038.7	616.1	684.7
80°	178.2	172.6	233.9	464.5	1138.7	1871.7	1094.3	470.1	297.6	187.9	198.4
82.5°	105.6	96.8	116.1	169.3	290.3	587.9	282.2	176.6	141.9	95.2	103.2
85°	60.5	56.4	68.5	82.3	97.6	125.0	81.4	83.9	75.8	50.8	53.2
87.5°	25.0	22.6	26.6	25.8	22.6	29.0	21.8	25.8	30.6	20.2	18.5
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)