

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: P883632

Luminaire Tested: **NAV-SB4A-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883632
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-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 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: 14941 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

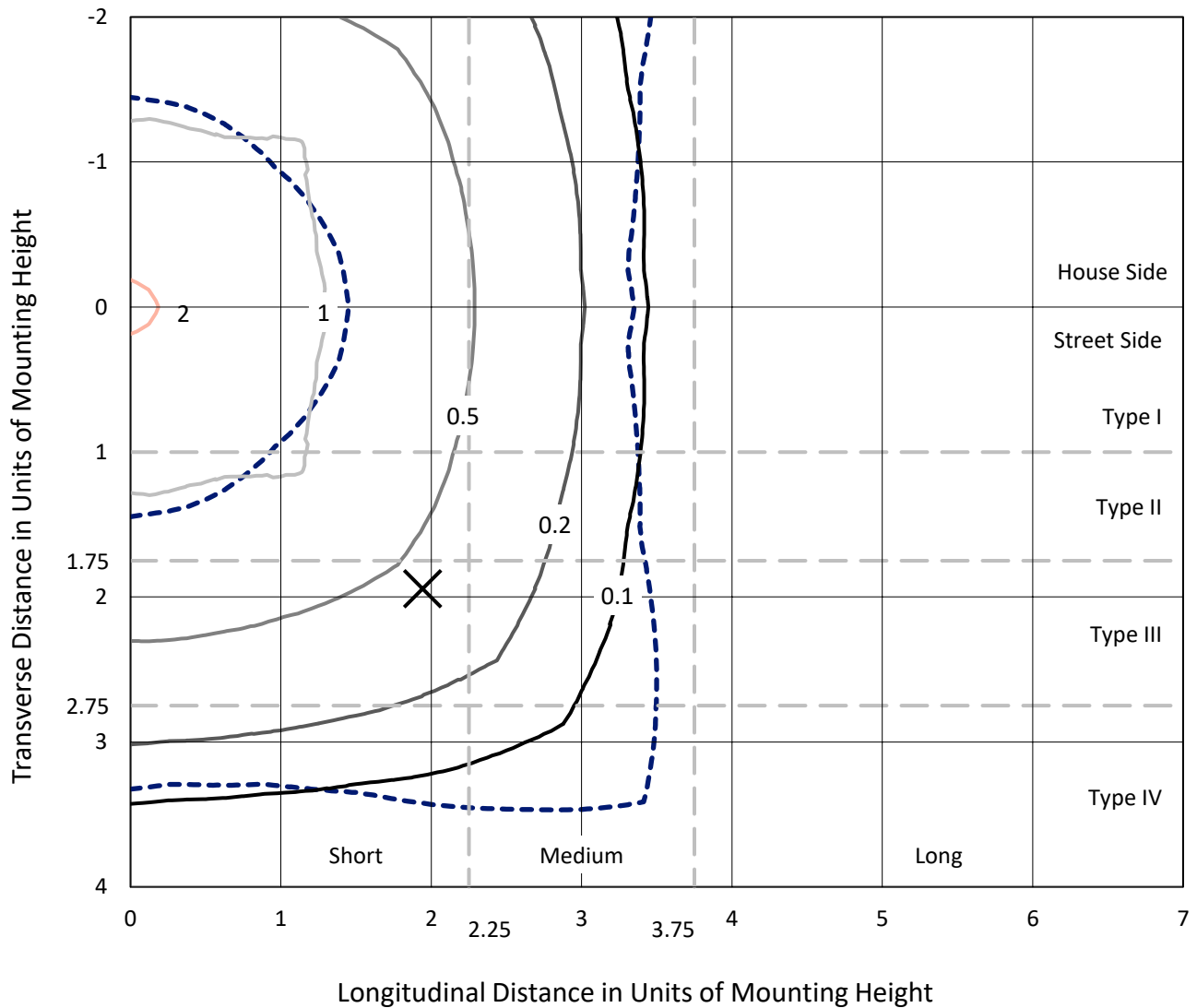
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

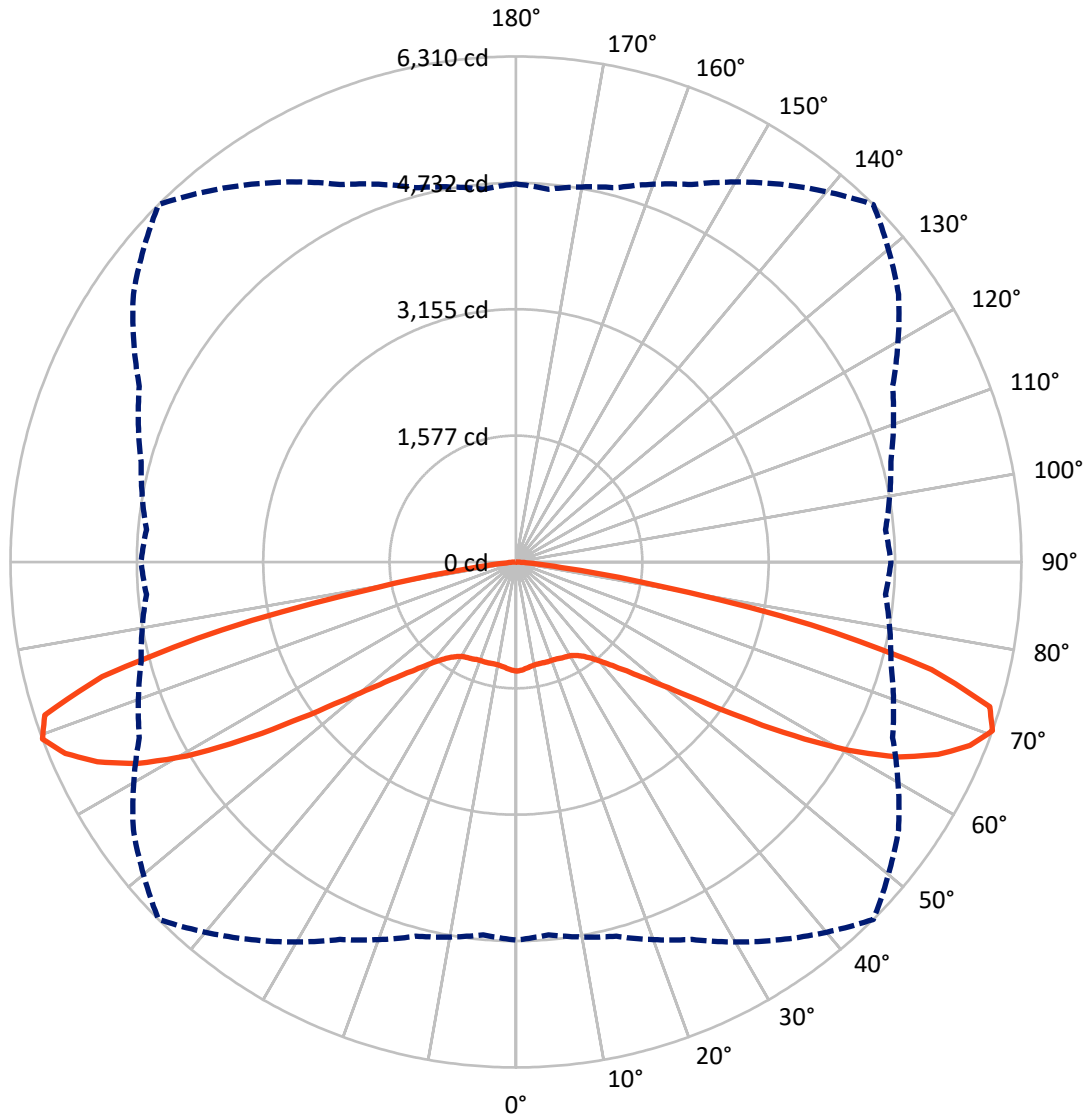
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	7470.5	0.0	7470.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7470.5	0.0	7470.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14941.0	0.0	14941.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	0.8
10°-20°	372.3	2.5
20°-30°	619.5	4.1
30°-40°	936.9	6.3
40°-50°	1556.9	10.4
50°-60°	2937.8	19.7
60°-70°	4960.5	33.2
70°-80°	3259.6	21.8
80°-90°	170.8	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°	14941.0	100.0
0°-180°	14941.0	100.0



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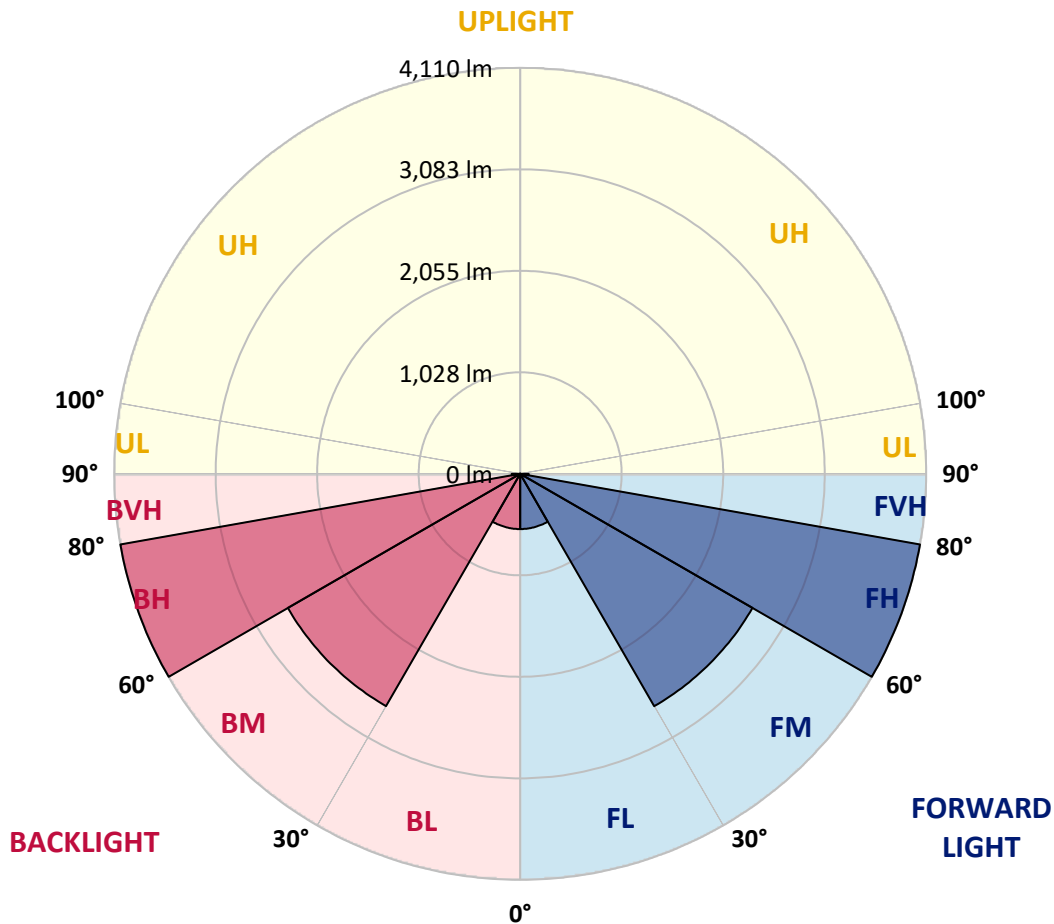
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.3	3.7			
FM (30°-60°)	2715.8	18.2			
FH (60°-80°)	4110.1	27.5			G2/5000
FVH (80°-90°)	85.4	0.6			G1/100
BL (0°-30°)	559.3	3.7	B2/1000		
BM (30°-60°)	2715.8	18.2	B3/5000		
BH (60°-80°)	4110.1	27.5	B4/5000		G2/5000
BVH (80°-90°)	85.4	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°	1362.9	1362.9	1362.9	1362.9	1362.9	1362.9	1362.9	1362.9	1362.9	1362.9	1362.9
2.5°	1354.4	1358.3	1356.7	1353.6	1353.6	1351.3	1353.6	1355.2	1357.5	1359.0	1358.3
5°	1336.5	1339.6	1338.8	1336.5	1337.3	1335.0	1336.5	1338.8	1340.4	1341.2	1341.2
7.5°	1321.0	1324.1	1322.5	1318.7	1318.7	1316.3	1317.1	1319.4	1321.8	1322.5	1322.5
10°	1317.1	1320.2	1315.5	1309.3	1307.0	1303.9	1304.7	1307.0	1311.7	1314.0	1314.0
12.5°	1318.7	1321.0	1316.3	1307.0	1304.7	1301.6	1301.6	1303.9	1310.1	1313.2	1314.0
15°	1323.3	1325.6	1318.7	1308.6	1306.2	1303.9	1303.1	1306.2	1313.2	1318.7	1319.4
17.5°	1331.9	1334.2	1323.3	1309.3	1306.2	1307.0	1306.2	1308.6	1319.4	1329.5	1329.5
20°	1339.6	1341.2	1326.4	1309.3	1306.2	1307.0	1306.2	1310.9	1324.9	1338.8	1339.6
22.5°	1342.0	1343.5	1329.5	1314.8	1312.4	1313.2	1312.4	1317.1	1330.3	1344.3	1344.3
25°	1342.7	1345.1	1334.2	1322.5	1326.4	1328.0	1326.4	1327.2	1337.3	1349.7	1348.9
27.5°	1354.4	1357.5	1347.4	1337.3	1339.6	1338.8	1341.2	1343.5	1351.3	1363.7	1360.6
30°	1378.5	1380.8	1372.2	1362.1	1360.6	1355.2	1362.1	1369.9	1378.5	1389.3	1387.0
32.5°	1418.1	1422.7	1411.8	1401.0	1394.0	1390.9	1396.3	1409.5	1421.2	1432.8	1428.2
35°	1484.1	1487.2	1477.1	1456.9	1444.5	1444.5	1449.1	1466.2	1484.8	1499.6	1494.2
37.5°	1577.3	1581.1	1563.3	1539.2	1520.6	1520.6	1526.8	1544.6	1572.6	1593.6	1585.8
40°	1690.6	1696.1	1673.6	1648.7	1630.8	1627.7	1635.5	1655.7	1682.1	1708.5	1700.0
42.5°	1827.3	1833.5	1804.0	1782.3	1768.3	1768.3	1772.2	1790.8	1814.9	1847.5	1845.2
45°	2002.1	2012.9	1972.5	1950.8	1937.6	1940.7	1943.0	1959.3	1981.1	2018.4	2016.8
47.5°	2210.2	2221.1	2178.3	2155.8	2153.5	2168.2	2158.9	2170.6	2182.2	2224.9	2212.5
50°	2446.3	2464.9	2435.4	2433.8	2438.5	2465.7	2443.9	2450.1	2436.9	2464.1	2447.8
52.5°	2735.2	2762.3	2756.9	2766.2	2818.3	2874.2	2824.5	2802.7	2753.0	2761.6	2732.8
55°	3085.4	3126.6	3134.3	3190.2	3308.3	3422.4	3316.8	3229.1	3123.5	3104.0	3073.8
57.5°	3483.8	3516.4	3553.7	3667.8	3888.4	4091.1	3888.4	3694.3	3528.1	3488.5	3460.5
60°	3912.5	3952.9	3988.6	4157.1	4484.8	4769.8	4478.6	4170.3	3950.5	3896.9	3850.3
62.5°	4373.0	4425.0	4449.9	4637.0	5019.1	5359.3	5024.6	4651.0	4407.2	4349.7	4303.1
65°	4814.9	4857.6	4885.5	5085.1	5450.1	5791.1	5475.0	5106.9	4856.0	4780.7	4743.4
67.5°	5020.7	5044.0	5112.3	5338.3	5723.5	6112.6	5788.7	5362.4	5082.0	4950.0	4951.6
70°	4719.4	4672.0	4836.6	5198.5	5756.1	6309.8	5830.7	5187.6	4844.4	4630.0	4681.3
72.5°	3646.9	3565.3	3851.1	4470.1	5383.3	6184.0	5420.6	4505.0	4029.0	3594.1	3702.0
75°	1984.2	1891.8	2286.3	3069.1	4293.0	5360.0	4391.6	3156.8	2545.7	1969.4	2097.6
77.5°	559.9	525.0	843.4	1484.8	2582.2	3763.4	2681.6	1517.5	1000.3	593.3	659.3
80°	171.6	166.2	225.2	447.3	1096.5	1802.5	1053.8	452.8	286.6	180.9	191.0
82.5°	101.7	93.2	111.8	163.1	279.6	566.1	271.8	170.1	136.7	91.6	99.4
85°	58.2	54.4	66.0	79.2	94.0	120.4	78.4	80.8	73.0	48.9	51.3
87.5°	24.1	21.7	25.6	24.9	21.7	28.0	21.0	24.9	29.5	19.4	17.9
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)