

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: P883132

Luminaire Tested: **NAV-SB3B-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883132
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-SB3B-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14949 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

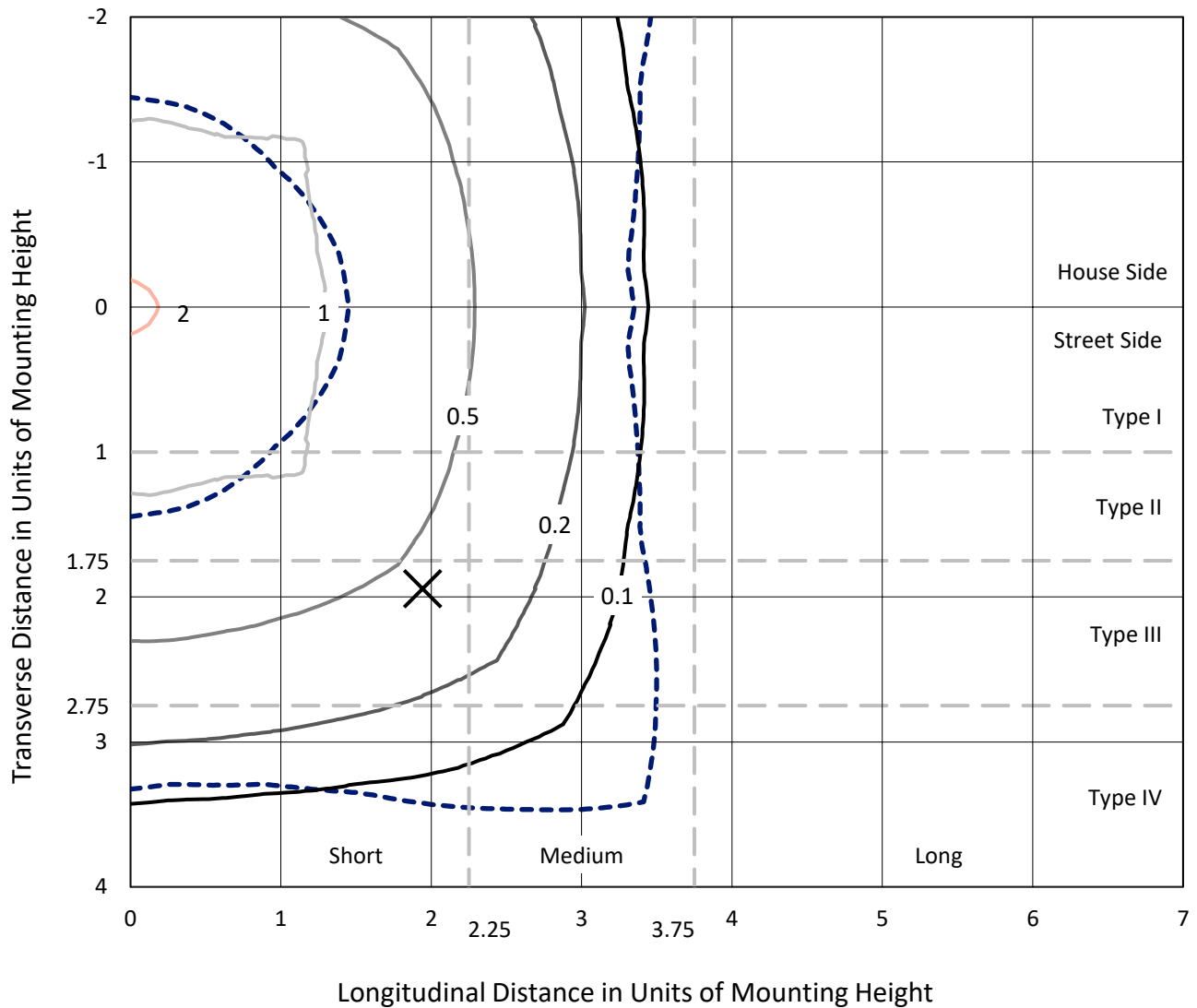
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

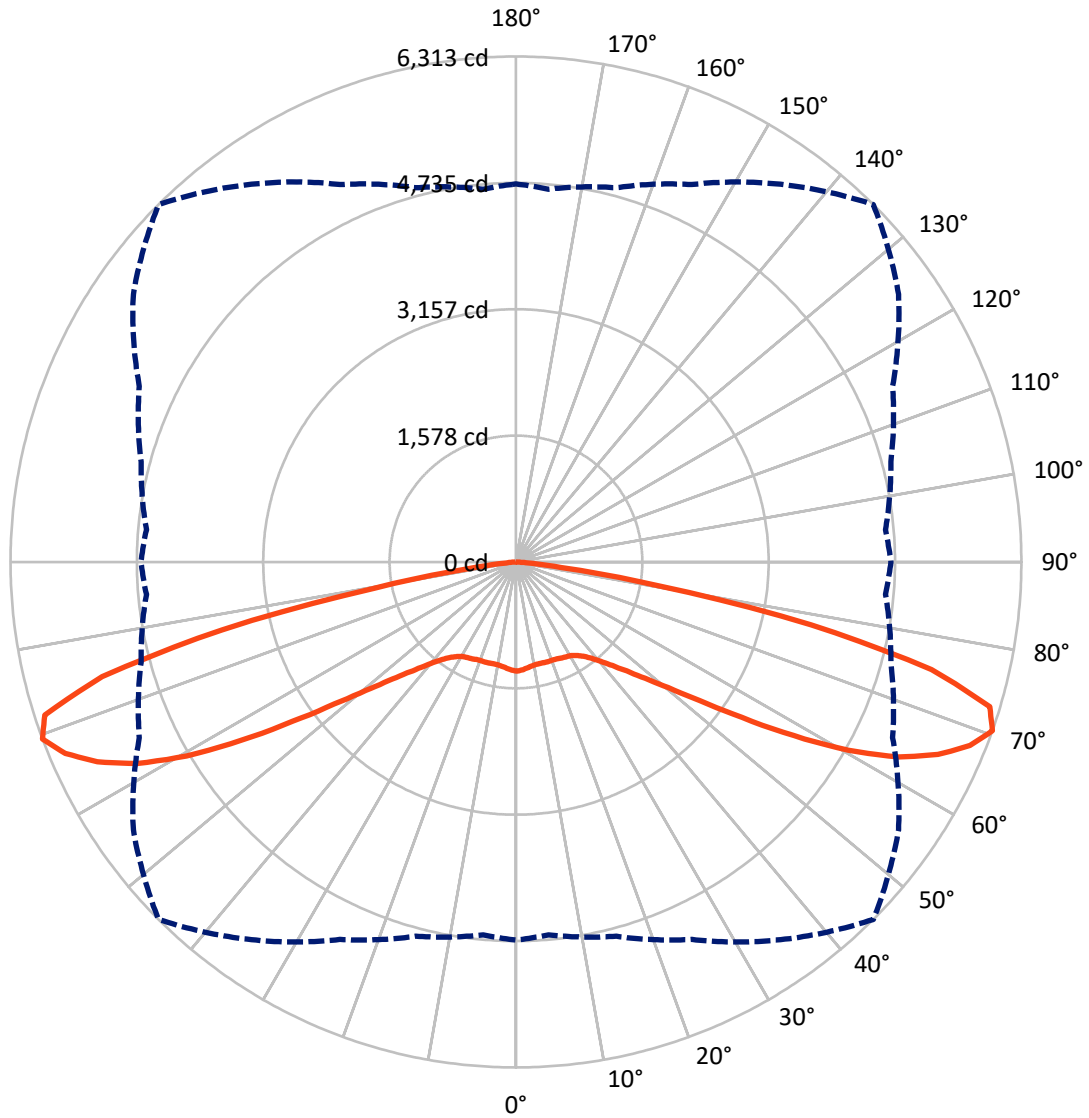
✕ Max cd
 - - - 1/2 Max cd



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	7474.5	0.0	7474.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7474.5	0.0	7474.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14949.0	0.0	14949.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	0.8
10°-20°	372.5	2.5
20°-30°	619.8	4.1
30°-40°	937.4	6.3
40°-50°	1557.7	10.4
50°-60°	2939.3	19.7
60°-70°	4963.2	33.2
70°-80°	3261.3	21.8
80°-90°	170.9	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°	14949.0	100.0
0°-180°	14949.0	100.0



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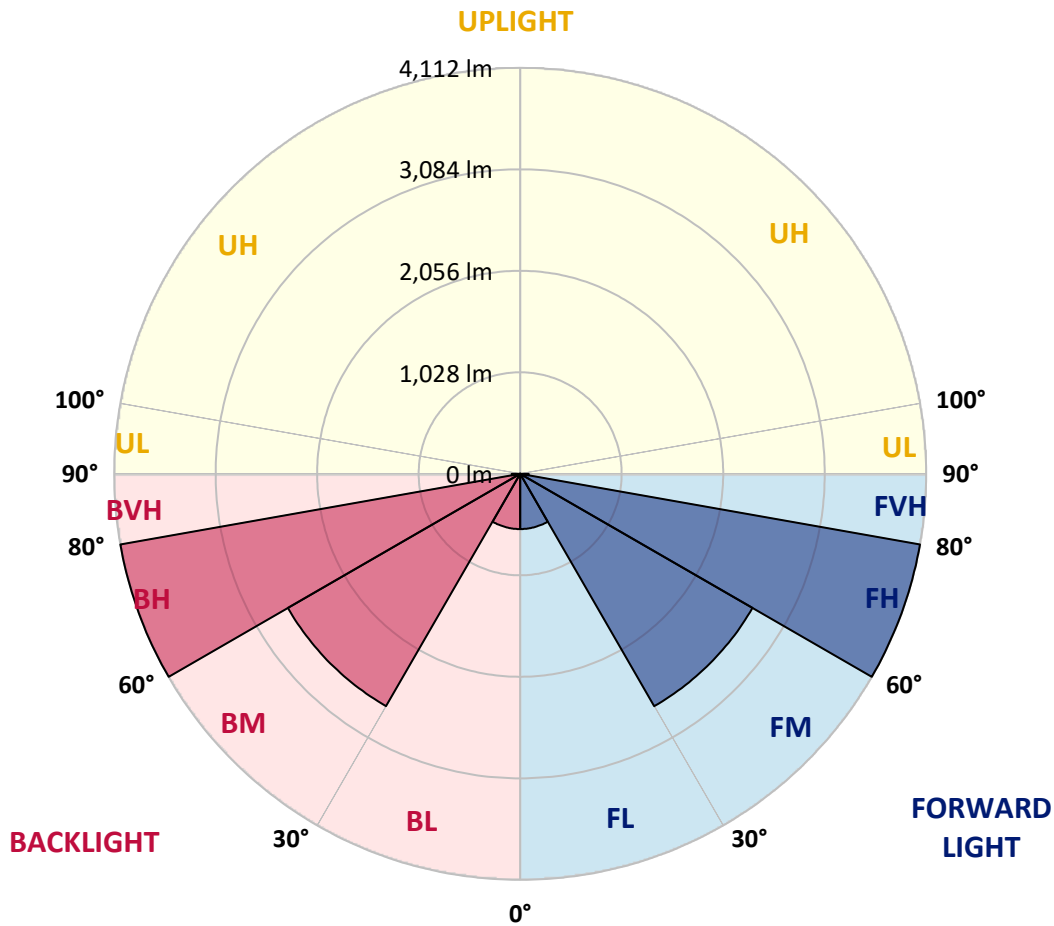
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.6	3.7			
FM (30°-60°)	2717.2	18.2			
FH (60°-80°)	4112.3	27.5			G2/5000
FVH (80°-90°)	85.4	0.6			G1/100
BL (0°-30°)	559.6	3.7	B2/1000		
BM (30°-60°)	2717.2	18.2	B3/5000		
BH (60°-80°)	4112.3	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°	1363.6	1363.6	1363.6	1363.6	1363.6	1363.6	1363.6	1363.6	1363.6	1363.6	1363.6
2.5°	1355.1	1359.0	1357.4	1354.3	1354.3	1352.0	1354.3	1355.9	1358.2	1359.8	1359.0
5°	1337.2	1340.3	1339.6	1337.2	1338.0	1335.7	1337.2	1339.6	1341.1	1341.9	1341.9
7.5°	1321.7	1324.8	1323.2	1319.4	1319.4	1317.0	1317.8	1320.1	1322.5	1323.2	1323.2
10°	1317.8	1320.9	1316.3	1310.0	1307.7	1304.6	1305.4	1307.7	1312.4	1314.7	1314.7
12.5°	1319.4	1321.7	1317.0	1307.7	1305.4	1302.3	1302.3	1304.6	1310.8	1313.9	1314.7
15°	1324.0	1326.4	1319.4	1309.3	1306.9	1304.6	1303.8	1306.9	1313.9	1319.4	1320.1
17.5°	1332.6	1334.9	1324.0	1310.0	1306.9	1307.7	1306.9	1309.3	1320.1	1330.2	1330.2
20°	1340.3	1341.9	1327.1	1310.0	1306.9	1307.7	1306.9	1311.6	1325.6	1339.6	1340.3
22.5°	1342.7	1344.2	1330.2	1315.5	1313.1	1313.9	1313.1	1317.8	1331.0	1345.0	1345.0
25°	1343.4	1345.8	1334.9	1323.2	1327.1	1328.7	1327.1	1327.9	1338.0	1350.4	1349.7
27.5°	1355.1	1358.2	1348.1	1338.0	1340.3	1339.6	1341.9	1344.2	1352.0	1364.4	1361.3
30°	1379.2	1381.5	1373.0	1362.9	1361.3	1355.9	1362.9	1370.6	1379.2	1390.1	1387.7
32.5°	1418.8	1423.5	1412.6	1401.7	1394.7	1391.6	1397.1	1410.3	1421.9	1433.6	1428.9
35°	1484.9	1488.0	1477.9	1457.7	1445.2	1445.2	1449.9	1467.0	1485.6	1500.4	1495.0
37.5°	1578.1	1582.0	1564.1	1540.0	1521.4	1521.4	1527.6	1545.5	1573.4	1594.4	1586.7
40°	1691.5	1697.0	1674.5	1649.6	1631.7	1628.6	1636.4	1656.6	1683.0	1709.4	1700.9
42.5°	1828.3	1834.5	1805.0	1783.2	1769.2	1769.2	1773.1	1791.8	1815.9	1848.5	1846.2
45°	2003.1	2014.0	1973.6	1951.8	1938.6	1941.7	1944.1	1960.4	1982.1	2019.4	2017.9
47.5°	2211.4	2222.2	2179.5	2157.0	2154.6	2169.4	2160.1	2171.7	2183.4	2226.1	2213.7
50°	2447.6	2466.2	2436.7	2435.1	2439.8	2467.0	2445.2	2451.5	2438.3	2465.4	2449.1
52.5°	2736.6	2763.8	2758.4	2767.7	2819.8	2875.7	2826.0	2804.2	2754.5	2763.0	2734.3
55°	3087.1	3128.2	3136.0	3192.0	3310.1	3424.3	3318.6	3230.8	3125.1	3105.7	3075.4
57.5°	3485.7	3518.3	3555.6	3669.8	3890.5	4093.3	3890.5	3696.2	3529.9	3490.3	3462.3
60°	3914.6	3955.0	3990.7	4159.3	4487.2	4772.4	4481.0	4172.5	3952.6	3899.0	3852.4
62.5°	4375.3	4427.4	4452.3	4639.5	5021.8	5362.1	5027.2	4653.5	4409.5	4352.0	4305.4
65°	4817.5	4860.2	4888.2	5087.9	5453.0	5794.2	5477.9	5109.6	4858.6	4783.3	4746.0
67.5°	5023.4	5046.7	5115.0	5341.2	5726.6	6115.8	5791.8	5365.2	5084.7	4952.7	4954.2
70°	4721.9	4674.5	4839.2	5201.3	5759.2	6313.2	5833.8	5190.4	4847.0	4632.5	4683.8
72.5°	3648.8	3567.2	3853.2	4472.5	5386.2	6187.3	5423.5	4507.4	4031.1	3596.0	3704.0
75°	1985.3	1892.8	2287.5	3070.7	4295.3	5362.9	4394.0	3158.5	2547.0	1970.5	2098.7
77.5°	560.2	525.3	843.8	1485.6	2583.6	3765.4	2683.0	1518.3	1000.8	593.6	659.7
80°	171.7	166.3	225.3	447.6	1097.1	1803.4	1054.4	453.0	286.7	181.0	191.1
82.5°	101.8	93.2	111.9	163.2	279.7	566.4	272.0	170.2	136.8	91.7	99.5
85°	58.3	54.4	66.0	79.3	94.0	120.4	78.5	80.8	73.0	49.0	51.3
87.5°	24.1	21.8	25.6	24.9	21.8	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)