

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: P882275

Luminaire Tested: **NAV-SB2A-827-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7348 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

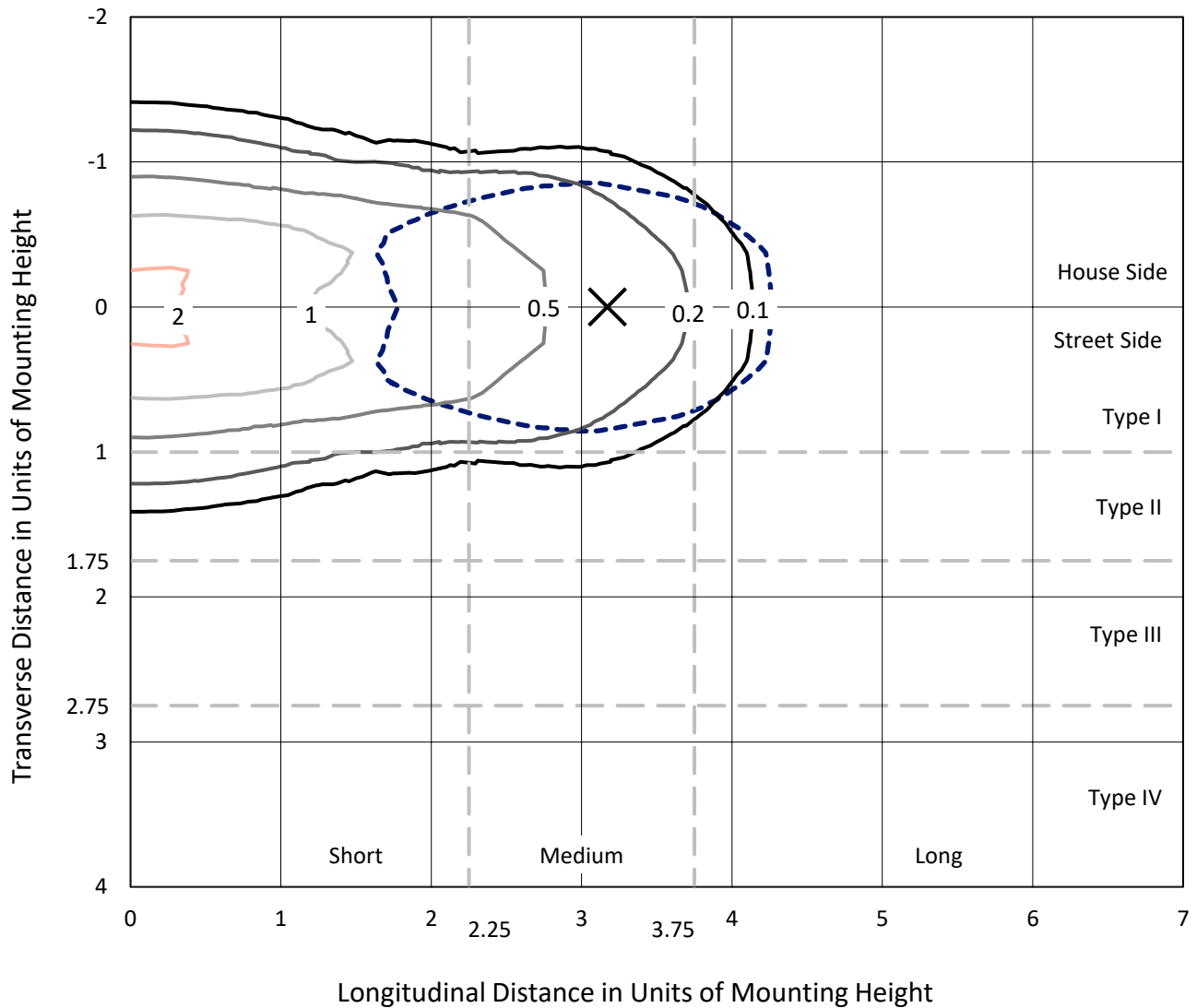
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

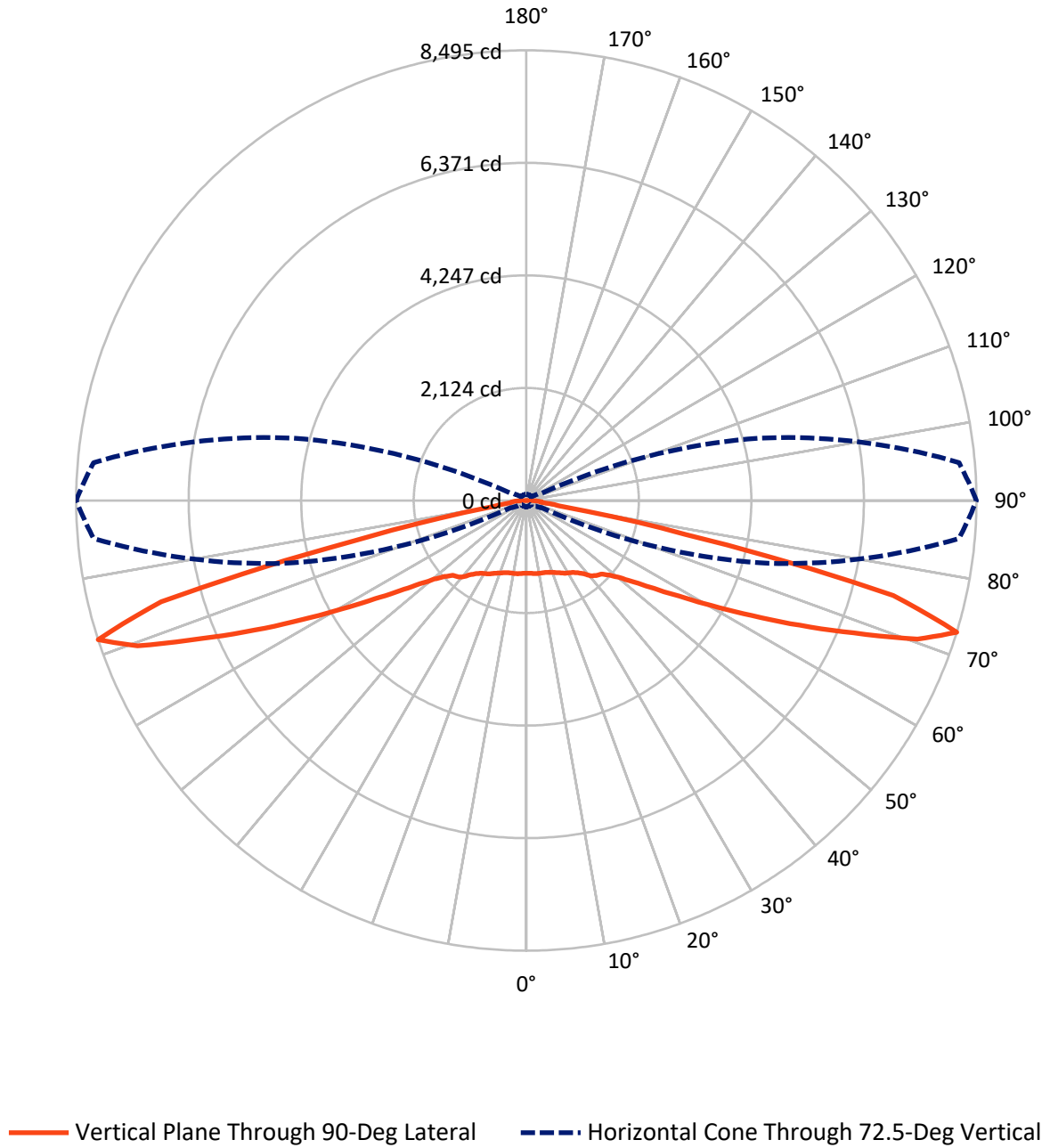
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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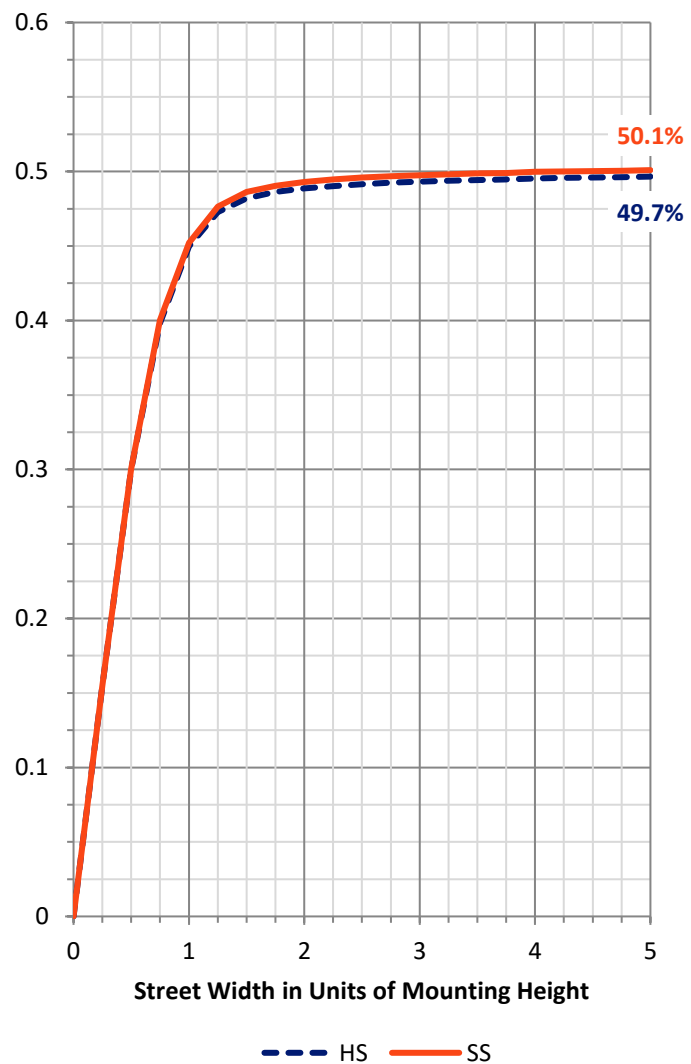
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3674.0	0.0	3674.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3674.0	0.0	3674.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7348.0	0.0	7348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	1.8
10°-20°	407.1	5.5
20°-30°	678.8	9.2
30°-40°	933.5	12.7
40°-50°	1140.1	15.5
50°-60°	1318.6	17.9
60°-70°	1572.2	21.4
70°-80°	1097.3	14.9
80°-90°	67.4	0.9
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°	7348.0	100.0
0°-180°	7348.0	100.0

Coefficient of Utilization



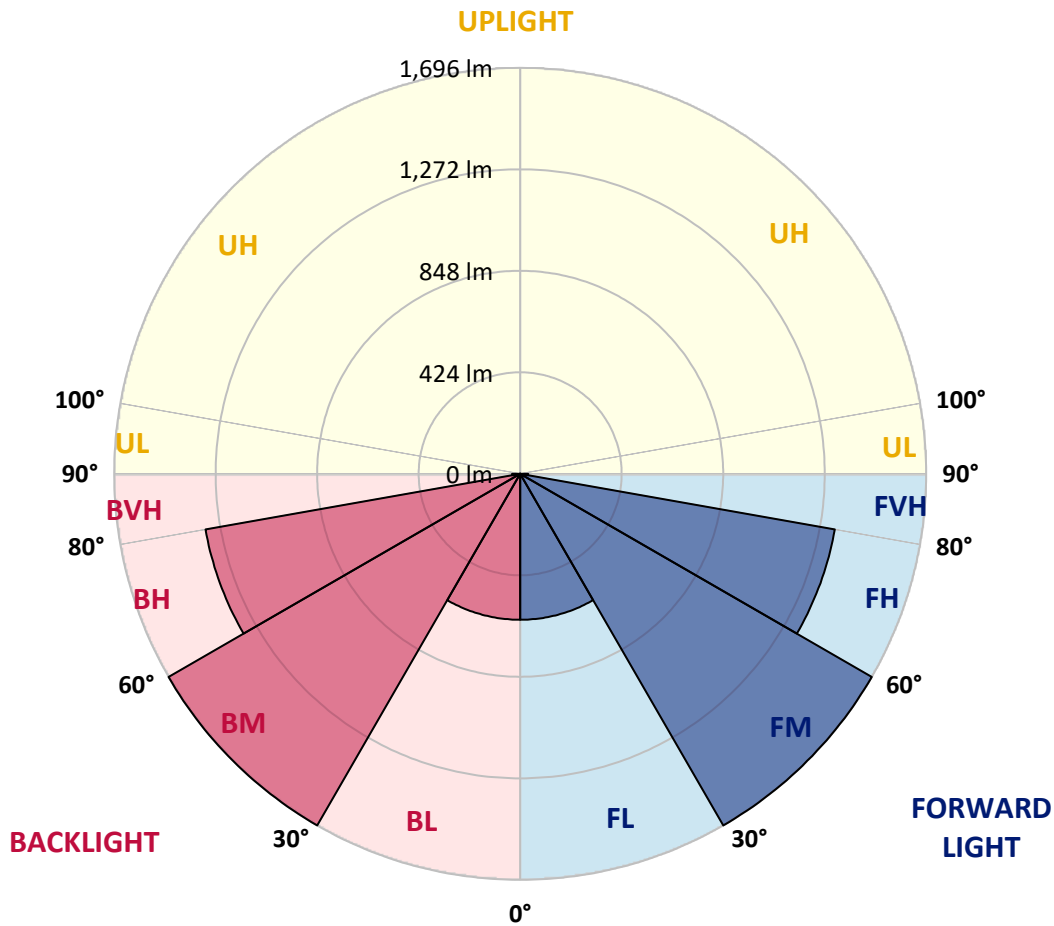
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	609.5	8.3			
FM (30°-60°)	1696.1	23.1			
FH (60°-80°)	1334.8	18.2			G1/1800
FVH (80°-90°)	33.7	0.5			G1/100
BL (0°-30°)	609.5	8.3	B2/1000		
BM (30°-60°)	1696.1	23.1	B2/2500		
BH (60°-80°)	1334.8	18.2	B3/2500		G3/2500
BVH (80°-90°)	33.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1
2.5°	1374.2	1375.8	1375.8	1374.6	1377.3	1375.0	1375.0	1373.8	1375.0	1373.8	1373.8
5°	1381.3	1383.2	1384.0	1383.6	1387.1	1385.2	1385.2	1383.6	1384.0	1382.8	1382.8
7.5°	1394.5	1397.3	1398.8	1400.8	1405.9	1403.5	1401.9	1397.3	1395.3	1392.2	1392.2
10°	1398.8	1401.9	1407.0	1417.2	1428.9	1429.3	1424.6	1412.9	1403.9	1396.9	1395.7
12.5°	1385.5	1389.8	1400.4	1421.1	1447.2	1457.8	1450.4	1430.8	1413.3	1400.8	1398.8
15°	1368.8	1373.4	1389.5	1420.7	1459.4	1484.0	1483.2	1457.4	1429.3	1409.8	1406.6
17.5°	1342.6	1347.3	1370.3	1414.1	1468.7	1509.3	1520.3	1493.7	1454.3	1428.1	1423.8
20°	1295.3	1299.6	1331.7	1393.0	1471.9	1536.3	1564.8	1541.4	1492.2	1456.6	1450.0
22.5°	1234.0	1240.7	1278.2	1356.6	1464.4	1564.4	1615.6	1599.6	1536.3	1487.1	1478.1
25°	1168.4	1175.5	1219.2	1312.1	1445.3	1584.7	1675.7	1665.5	1586.3	1525.0	1512.5
27.5°	1111.8	1119.2	1166.9	1268.0	1415.6	1592.5	1735.1	1740.1	1646.8	1566.7	1553.5
30°	1067.3	1074.3	1125.1	1232.5	1377.3	1584.7	1787.0	1822.1	1708.5	1603.1	1583.9
32.5°	1018.5	1027.4	1080.9	1189.1	1332.0	1566.0	1832.3	1910.8	1780.0	1642.1	1617.9
35°	956.8	965.0	1021.2	1129.8	1272.7	1535.9	1870.2	2009.2	1882.3	1701.5	1674.5
37.5°	881.8	889.6	945.4	1055.6	1213.7	1493.7	1899.1	2120.1	2004.1	1787.0	1751.1
40°	806.4	813.8	866.2	972.8	1143.0	1439.8	1909.2	2228.7	2143.9	1904.5	1866.3
42.5°	737.3	743.9	792.0	891.2	1063.8	1371.1	1896.0	2323.2	2269.3	1986.6	1937.3
45°	673.6	679.5	722.1	814.6	981.4	1287.5	1856.1	2424.7	2418.5	2045.1	1978.7
47.5°	601.0	606.9	651.0	740.4	899.0	1189.5	1788.6	2524.7	2625.8	2177.9	2101.4
50°	512.4	517.4	562.7	654.9	813.4	1085.2	1694.8	2603.2	2887.5	2379.0	2283.0
52.5°	407.3	412.8	456.9	549.1	711.9	973.2	1571.4	2654.3	3189.7	2672.7	2554.4
55°	303.0	306.9	345.2	428.0	586.2	845.5	1416.8	2668.8	3532.6	3074.1	2926.1
57.5°	219.9	222.2	246.8	308.5	444.4	685.7	1229.0	2631.3	3940.7	3588.8	3402.6
60°	178.1	178.9	186.3	213.6	308.9	505.3	1002.1	2502.4	4383.5	4252.3	4017.6
62.5°	161.7	161.7	163.6	171.0	208.9	333.5	727.5	2235.3	4858.4	5090.8	4776.4
65°	150.3	150.3	151.1	154.6	164.8	212.4	459.2	1800.3	5258.7	6072.9	5675.4
67.5°	140.2	140.6	140.2	141.4	147.2	157.0	266.3	1243.4	5474.2	7090.6	6661.4
70°	129.7	130.4	128.5	128.5	133.2	133.6	166.7	681.8	5295.4	7943.5	7830.6
72.5°	117.2	118.3	115.2	114.4	117.9	116.4	125.4	327.3	4546.4	8198.1	8494.9
75°	106.2	107.8	100.8	98.8	98.8	97.6	101.9	167.9	2950.7	6687.6	7153.1
77.5°	96.5	99.6	88.3	82.0	80.4	76.9	83.2	102.7	1290.7	3139.7	3074.5
80°	79.7	84.0	72.6	65.2	62.5	58.6	65.6	71.9	383.9	729.1	698.2
82.5°	59.4	61.3	51.5	46.5	44.1	41.4	49.2	50.0	125.0	258.1	291.7
85°	37.9	38.7	31.6	27.3	26.2	25.0	31.2	27.3	47.6	189.8	275.7
87.5°	13.3	15.2	12.1	10.9	11.7	9.8	14.4	8.2	13.3	133.9	166.0
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)