

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: P882285

Luminaire Tested: **NAV-SB2A-830-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882285
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-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7914 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

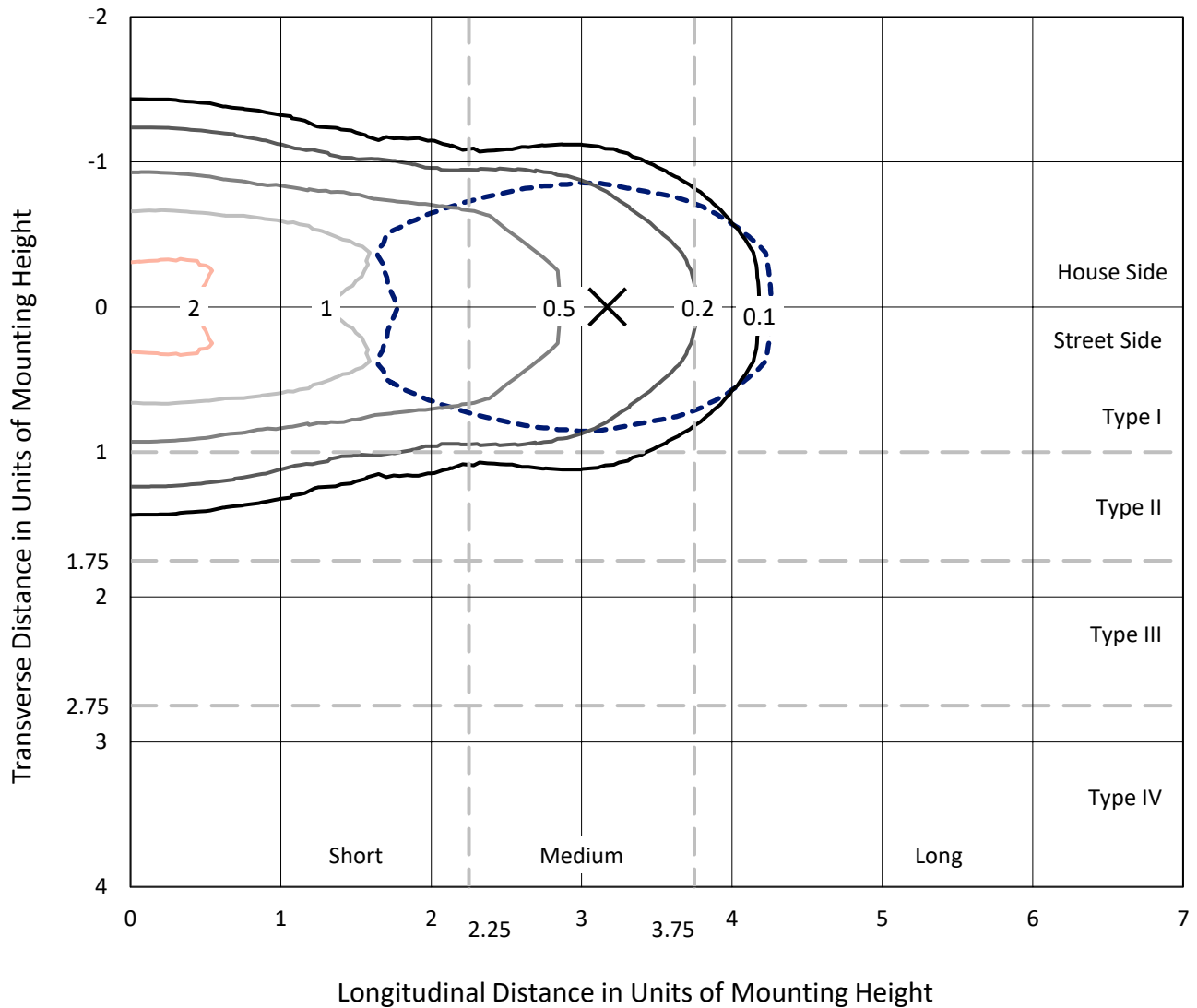
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

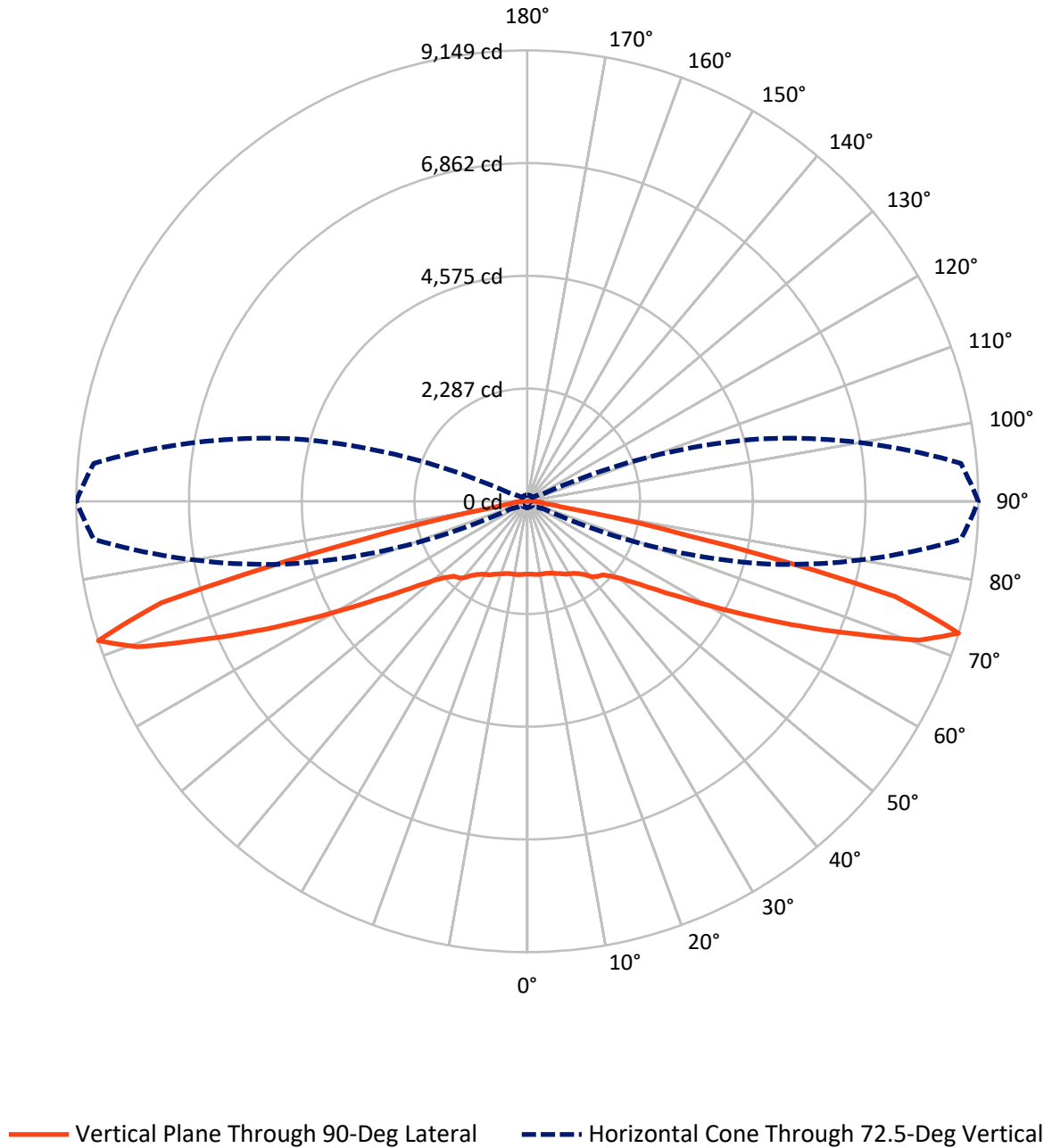
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	3957.0	0.0	3957.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3957.0	0.0	3957.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7914.0	0.0	7914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	1.8
10°-20°	438.4	5.5
20°-30°	731.0	9.2
30°-40°	1005.4	12.7
40°-50°	1227.9	15.5
50°-60°	1420.2	17.9
60°-70°	1693.3	21.4
70°-80°	1181.8	14.9
80°-90°	72.6	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°	7914.0	100.0
0°-180°	7914.0	100.0

Coefficient of Utilization



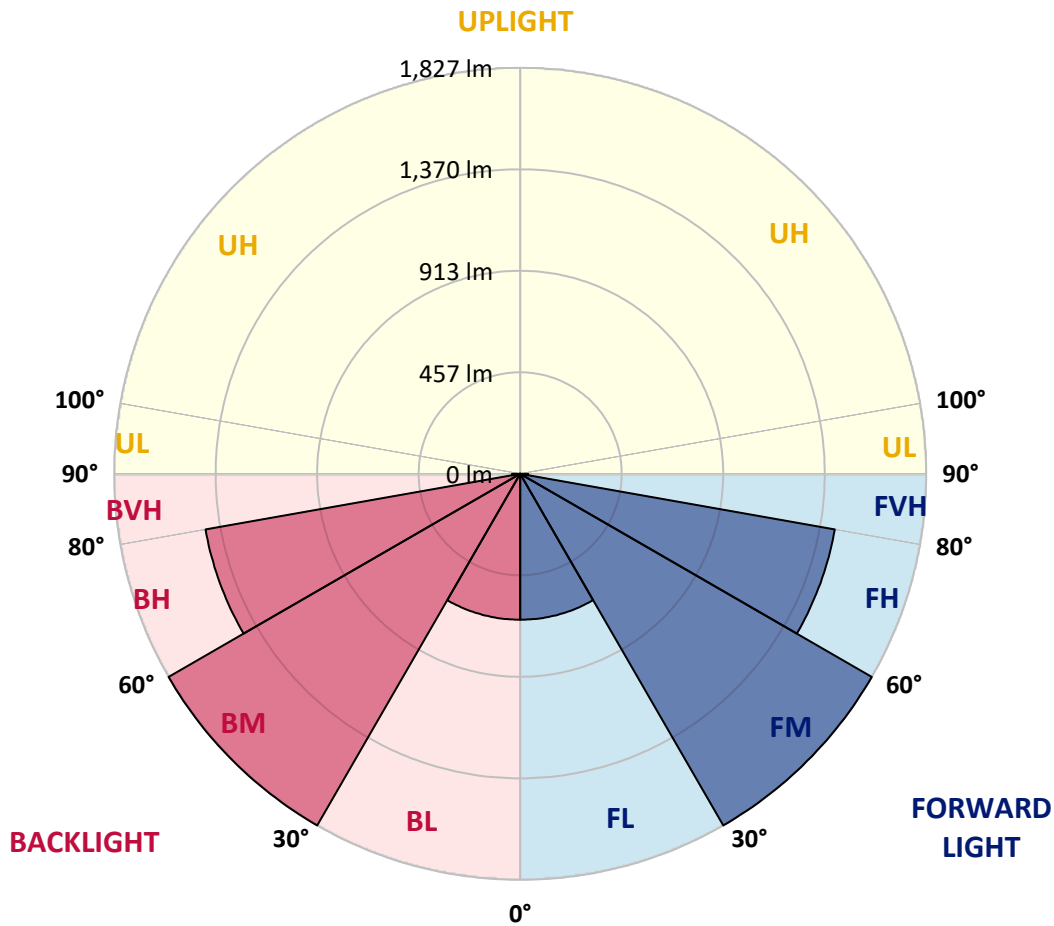
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	656.4	8.3			
FM (30°-60°)	1826.7	23.1			
FH (60°-80°)	1437.6	18.2			G1/1800
FVH (80°-90°)	36.3	0.5			G1/100
BL (0°-30°)	656.4	8.3	B2/1000		
BM (30°-60°)	1826.7	23.1	B2/2500		
BH (60°-80°)	1437.6	18.2	B3/2500		G3/2500
BVH (80°-90°)	36.3	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°	1478.8	1478.8	1478.8	1478.8	1478.8	1478.8	1478.8	1478.8	1478.8	1478.8	1478.8
2.5°	1480.1	1481.8	1481.8	1480.5	1483.4	1480.9	1480.9	1479.7	1480.9	1479.7	1479.7
5°	1487.6	1489.7	1490.6	1490.2	1494.0	1491.9	1491.9	1490.2	1490.6	1489.3	1489.3
7.5°	1501.9	1504.9	1506.6	1508.7	1514.1	1511.6	1509.9	1504.9	1502.8	1499.4	1499.4
10°	1506.6	1509.9	1515.4	1526.3	1539.0	1539.4	1534.3	1521.7	1512.0	1504.5	1503.2
12.5°	1492.3	1496.9	1508.3	1530.5	1558.7	1570.1	1562.1	1541.1	1522.1	1508.7	1506.6
15°	1474.2	1479.2	1496.5	1530.1	1571.8	1598.3	1597.4	1569.7	1539.4	1518.4	1515.0
17.5°	1446.0	1451.1	1475.9	1523.0	1581.9	1625.6	1637.4	1608.8	1566.3	1538.1	1533.5
20°	1395.1	1399.7	1434.2	1500.3	1585.2	1654.6	1685.3	1660.1	1607.1	1568.8	1561.7
22.5°	1329.1	1336.2	1376.6	1461.1	1577.2	1684.9	1740.0	1722.8	1654.6	1601.6	1592.0
25°	1258.4	1266.0	1313.1	1413.2	1556.6	1706.8	1804.8	1793.8	1708.5	1642.4	1629.0
27.5°	1197.4	1205.4	1256.7	1365.7	1524.7	1715.2	1868.7	1874.2	1773.7	1687.4	1673.1
30°	1149.5	1157.1	1211.7	1327.4	1483.4	1706.8	1924.6	1962.5	1840.1	1726.5	1705.9
32.5°	1096.9	1106.6	1164.2	1280.7	1434.7	1686.6	1973.4	2058.0	1917.1	1768.6	1742.5
35°	1030.5	1039.3	1099.9	1216.8	1370.7	1654.2	2014.2	2164.0	2027.3	1832.5	1803.5
37.5°	949.7	958.1	1018.3	1136.9	1307.2	1608.8	2045.4	2283.4	2158.5	1924.6	1886.0
40°	868.5	876.5	932.9	1047.7	1231.1	1550.7	2056.3	2400.3	2309.1	2051.2	2010.0
42.5°	794.1	801.2	853.0	959.8	1145.7	1476.7	2042.0	2502.1	2444.1	2139.6	2086.6
45°	725.5	731.8	777.7	877.4	1057.0	1386.7	1999.1	2611.5	2604.7	2202.7	2131.2
47.5°	647.3	653.6	701.1	797.4	968.2	1281.1	1926.3	2719.2	2828.1	2345.7	2263.2
50°	551.8	557.3	606.1	705.3	876.1	1168.8	1825.4	2803.7	3109.9	2562.3	2458.8
52.5°	438.7	444.6	492.1	591.4	766.7	1048.1	1692.5	2858.8	3435.4	2878.6	2751.1
55°	326.4	330.6	371.8	461.0	631.3	910.6	1525.9	2874.4	3804.7	3310.9	3151.5
57.5°	236.8	239.3	265.8	332.3	478.6	738.6	1323.6	2834.0	4244.2	3865.3	3664.7
60°	191.8	192.6	200.6	230.1	332.7	544.3	1079.2	2695.2	4721.2	4579.9	4327.1
62.5°	174.1	174.1	176.2	184.2	225.0	359.2	783.6	2407.5	5232.6	5482.9	5144.3
65°	161.9	161.9	162.8	166.6	177.5	228.8	494.6	1938.9	5663.7	6540.7	6112.5
67.5°	151.0	151.4	151.0	152.3	158.6	169.1	286.8	1339.2	5895.9	7636.8	7174.5
70°	139.6	140.5	138.4	138.4	143.4	143.8	179.6	734.4	5703.3	8555.3	8433.8
72.5°	126.2	127.4	124.1	123.2	127.0	125.3	135.0	352.5	4896.6	8829.6	9149.2
75°	114.4	116.1	108.5	106.4	106.4	105.1	109.8	180.9	3178.0	7202.7	7704.1
77.5°	103.9	107.3	95.1	88.3	86.6	82.9	89.6	110.6	1390.1	3381.6	3311.3
80°	85.8	90.4	78.2	70.2	67.3	63.1	70.7	77.4	413.4	785.3	752.0
82.5°	63.9	66.0	55.5	50.1	47.5	44.6	53.0	53.8	134.6	278.0	314.2
85°	40.8	41.6	34.1	29.4	28.2	26.9	33.6	29.4	51.3	204.4	296.9
87.5°	14.3	16.4	13.0	11.8	12.6	10.5	15.6	8.8	14.3	144.3	178.8
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)