

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: P882235

Luminaire Tested: **NAV-SB2A-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882235
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-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9044 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

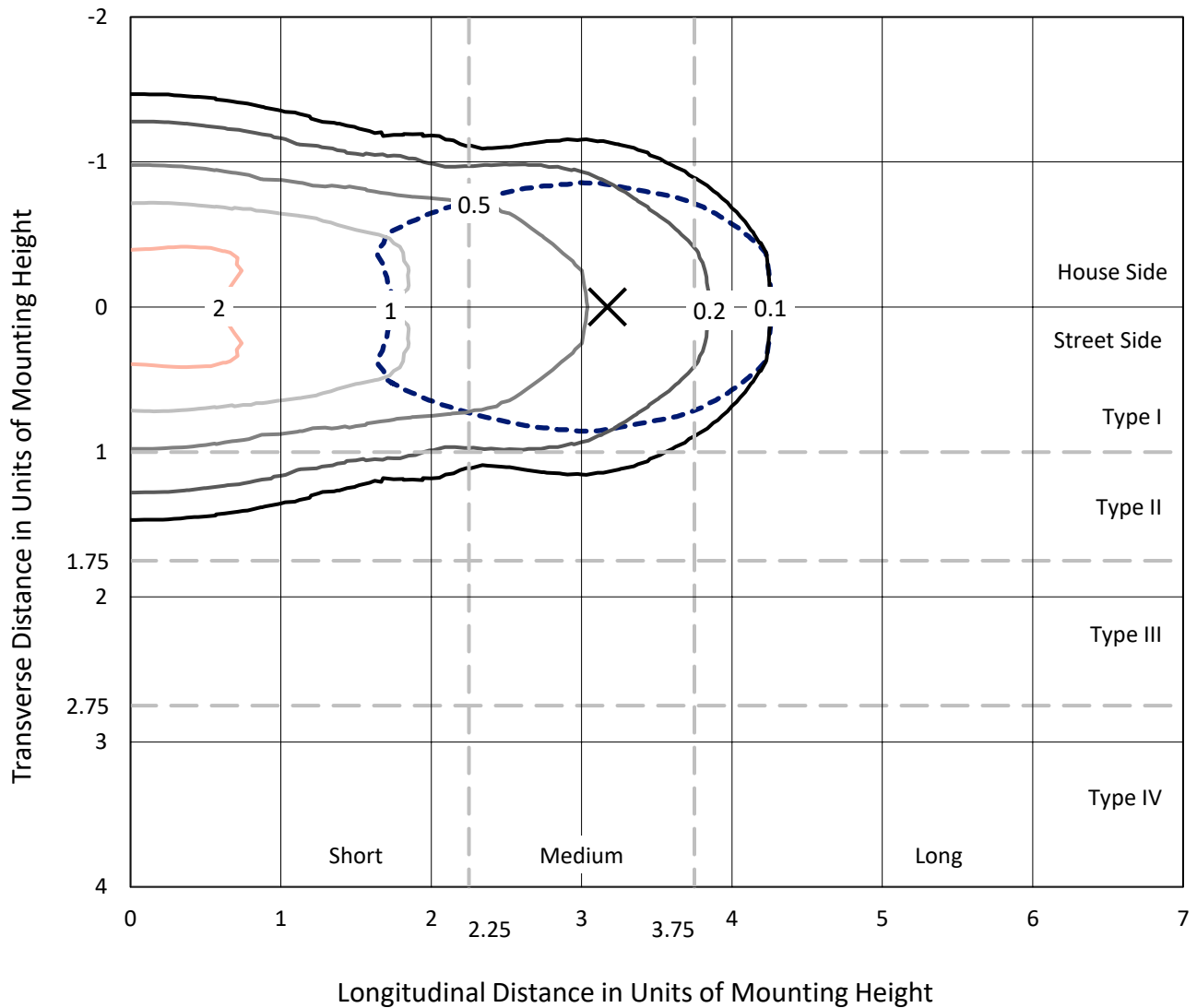
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P882235
 CATALOG NUMBER: NAV-SB2A-735-U-T1

Iso-Footcandle Lines of Horizontal Illumination

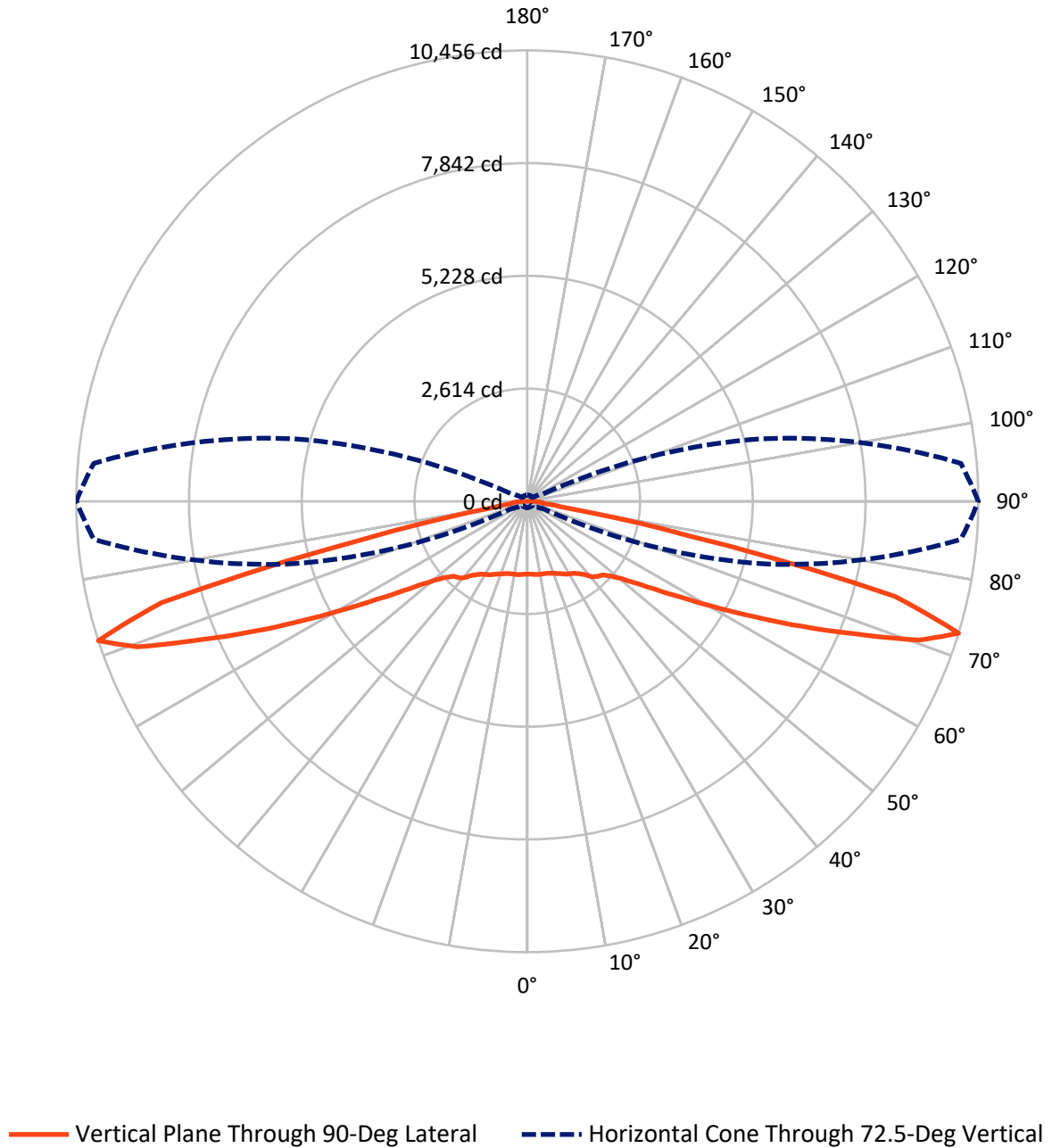
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type I - Short - N/A

REPORT NUMBER: P882235
CATALOG NUMBER: NAV-SB2A-735-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P882235
 CATALOG NUMBER: NAV-SB2A-735-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4522.0	0.0	4522.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4522.0	0.0	4522.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9044.0	0.0	9044.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	1.8
10°-20°	501.0	5.5
20°-30°	835.4	9.2
30°-40°	1149.0	12.7
40°-50°	1403.2	15.5
50°-60°	1622.9	17.9
60°-70°	1935.1	21.4
70°-80°	1350.6	14.9
80°-90°	82.9	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°	9044.0	100.0
0°-180°	9044.0	100.0

Coefficient of Utilization



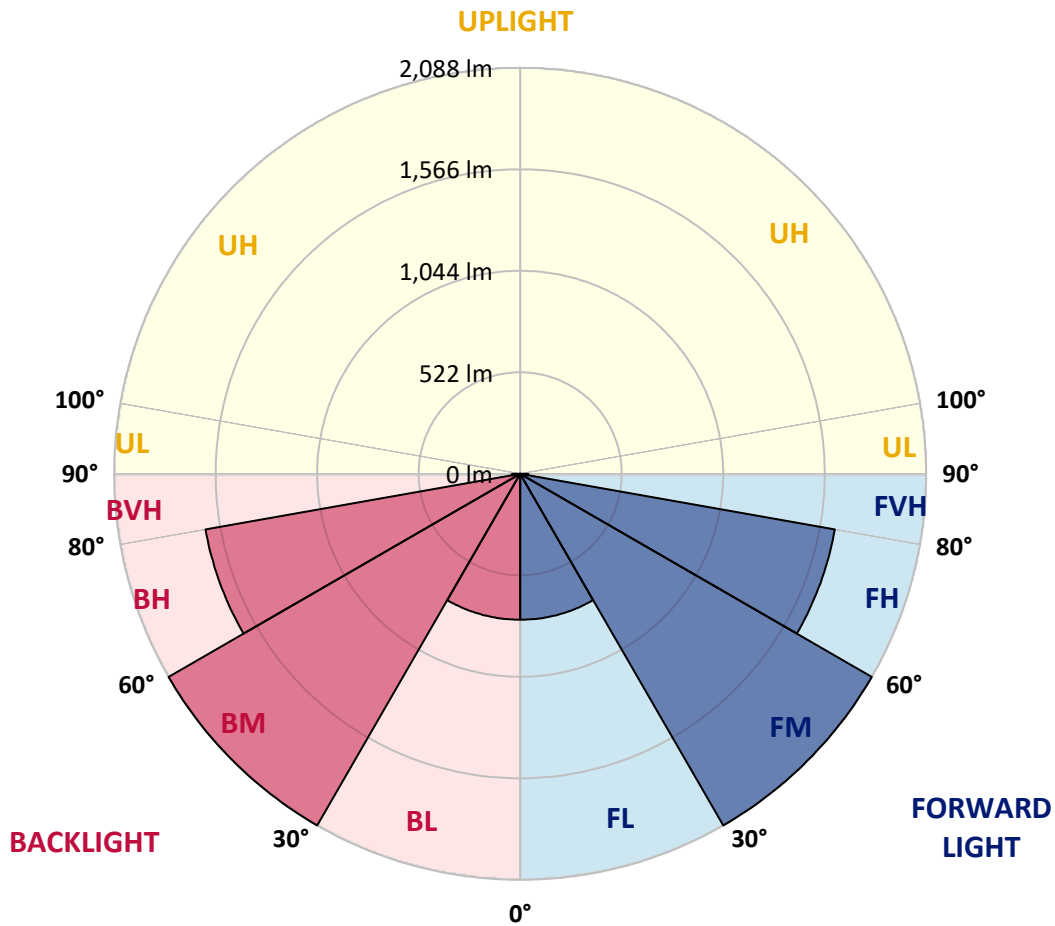
REPORT NUMBER: P882235
 CATALOG NUMBER: NAV-SB2A-735-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.2	8.3			
FM (30°-60°)	2087.5	23.1			
FH (60°-80°)	1642.8	18.2			G1/1800
FVH (80°-90°)	41.5	0.5			G1/100
BL (0°-30°)	750.2	8.3	B2/1000		
BM (30°-60°)	2087.5	23.1	B2/2500		
BH (60°-80°)	1642.8	18.2	B3/2500		G3/2500
BVH (80°-90°)	41.5	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



REPORT NUMBER: P882235
 CATALOG NUMBER: NAV-SB2A-735-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0
2.5°	1691.4	1693.3	1693.3	1691.9	1695.3	1692.4	1692.4	1690.9	1692.4	1690.9	1690.9
5°	1700.1	1702.5	1703.4	1702.9	1707.3	1704.9	1704.9	1702.9	1703.4	1702.0	1702.0
7.5°	1716.4	1719.8	1721.7	1724.1	1730.3	1727.5	1725.5	1719.8	1717.4	1713.5	1713.5
10°	1721.7	1725.5	1731.8	1744.3	1758.7	1759.2	1753.4	1739.0	1727.9	1719.3	1717.8
12.5°	1705.3	1710.6	1723.6	1749.1	1781.3	1794.3	1785.1	1761.1	1739.5	1724.1	1721.7
15°	1684.7	1690.4	1710.2	1748.6	1796.2	1826.5	1825.5	1793.8	1759.2	1735.1	1731.3
17.5°	1652.5	1658.2	1686.6	1740.4	1807.7	1857.7	1871.2	1838.5	1789.9	1757.7	1752.5
20°	1594.3	1599.6	1639.0	1714.5	1811.6	1890.9	1926.0	1897.1	1836.6	1792.8	1784.7
22.5°	1518.9	1527.0	1573.2	1669.8	1802.4	1925.5	1988.5	1968.7	1890.9	1830.3	1819.3
25°	1438.1	1446.8	1500.6	1615.0	1778.9	1950.5	2062.5	2050.0	1952.4	1876.9	1861.6
27.5°	1368.4	1377.5	1436.2	1560.7	1742.4	1960.1	2135.5	2141.8	2026.9	1928.4	1912.0
30°	1313.6	1322.3	1384.8	1516.9	1695.3	1950.5	2199.5	2242.7	2102.8	1973.1	1949.5
32.5°	1253.5	1264.6	1330.4	1463.6	1639.5	1927.4	2255.2	2351.8	2190.8	2021.1	1991.3
35°	1177.6	1187.7	1256.9	1390.5	1566.4	1890.4	2301.8	2472.9	2316.7	2094.2	2061.0
37.5°	1085.3	1094.9	1163.7	1299.2	1493.9	1838.5	2337.4	2609.5	2466.7	2199.5	2155.2
40°	992.5	1001.7	1066.1	1197.3	1406.9	1772.2	2349.9	2743.1	2638.8	2344.1	2297.0
42.5°	907.5	915.6	974.8	1096.8	1309.3	1687.6	2333.6	2859.4	2793.1	2445.1	2384.5
45°	829.1	836.3	888.7	1002.6	1207.9	1584.7	2284.5	2984.4	2976.7	2517.2	2435.5
47.5°	739.7	746.9	801.2	911.3	1106.5	1464.1	2201.4	3107.4	3231.9	2680.6	2586.4
50°	630.6	636.9	692.6	806.1	1001.2	1335.7	2086.0	3204.0	3553.9	2928.1	2809.9
52.5°	501.3	508.0	562.4	675.8	876.2	1197.8	1934.1	3267.0	3926.0	3289.6	3143.9
55°	373.0	377.8	424.9	526.8	721.5	1040.6	1743.8	3284.8	4348.0	3783.7	3601.5
57.5°	270.6	273.5	303.8	379.7	547.0	844.0	1512.6	3238.6	4850.2	4417.2	4187.9
60°	219.2	220.1	229.3	262.9	380.2	622.0	1233.3	3080.0	5395.3	5233.8	4944.9
62.5°	199.0	199.0	201.4	210.5	257.1	410.5	895.5	2751.2	5979.8	6265.8	5878.8
65°	185.1	185.1	186.0	190.3	202.8	261.5	565.2	2215.8	6472.4	7474.6	6985.3
67.5°	172.6	173.0	172.6	174.0	181.2	193.2	327.8	1530.4	6737.8	8727.2	8198.9
70°	159.6	160.5	158.1	158.1	163.9	164.4	205.2	839.2	6517.6	9776.9	9638.0
72.5°	144.2	145.6	141.8	140.8	145.2	143.2	154.3	402.8	5595.7	10090.3	10455.6
75°	130.7	132.7	124.0	121.6	121.6	120.2	125.4	206.7	3631.8	8231.1	8804.1
77.5°	118.7	122.6	108.6	100.9	99.0	94.7	102.4	126.4	1588.5	3864.4	3784.2
80°	98.1	103.3	89.4	80.3	76.9	72.1	80.7	88.4	472.5	897.4	859.4
82.5°	73.1	75.5	63.4	57.2	54.3	50.9	60.6	61.5	153.8	317.7	359.0
85°	46.6	47.6	38.9	33.6	32.2	30.8	38.5	33.6	58.6	233.6	339.3
87.5°	16.3	18.7	14.9	13.5	14.4	12.0	17.8	10.1	16.3	164.9	204.3
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)