

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: P882465

Luminaire Tested: **NAV-SB2B-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882465
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-SB2B-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9579 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

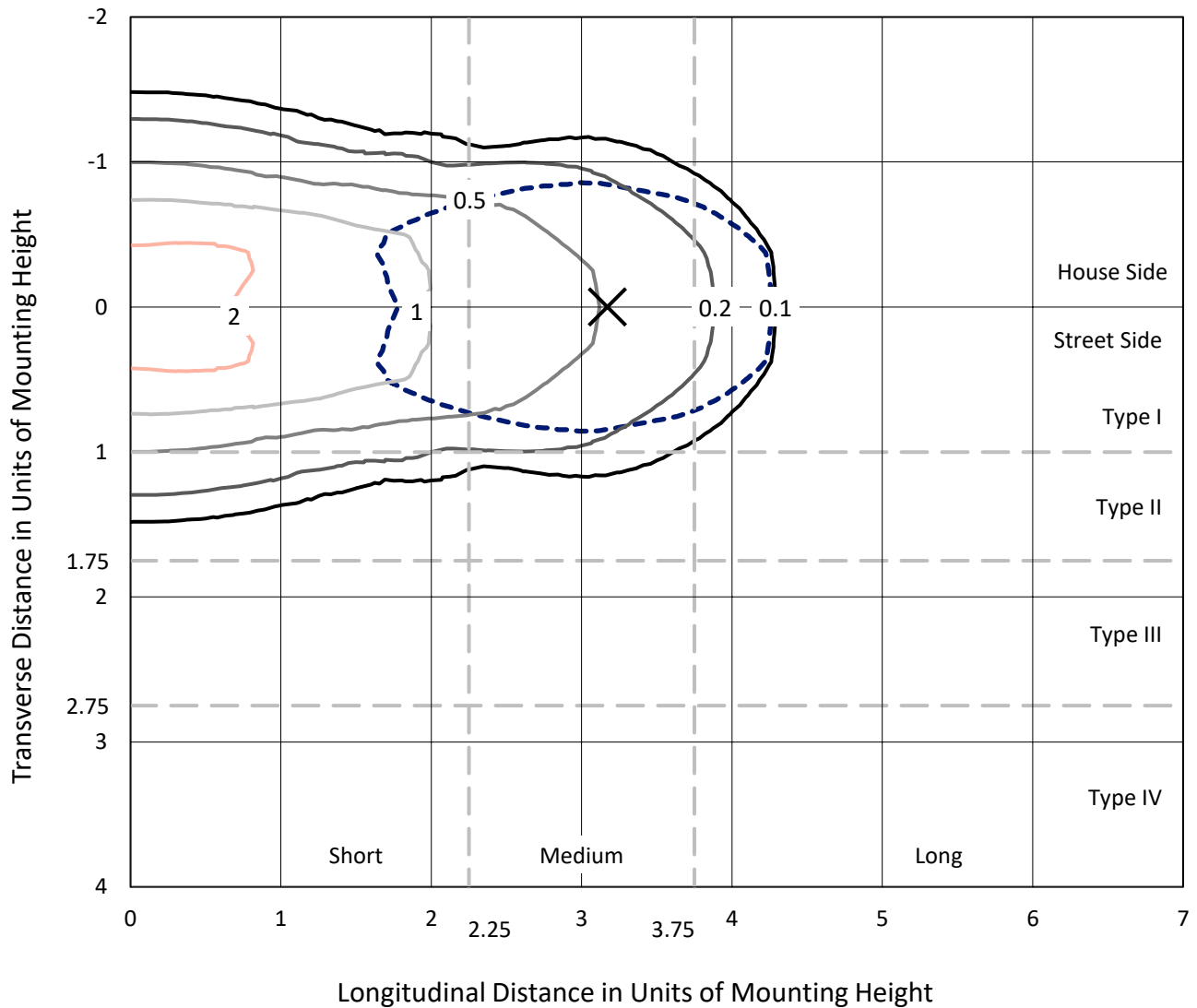
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P882465
 CATALOG NUMBER: NAV-SB2B-835-U-T1

Iso-Footcandle Lines of Horizontal Illumination

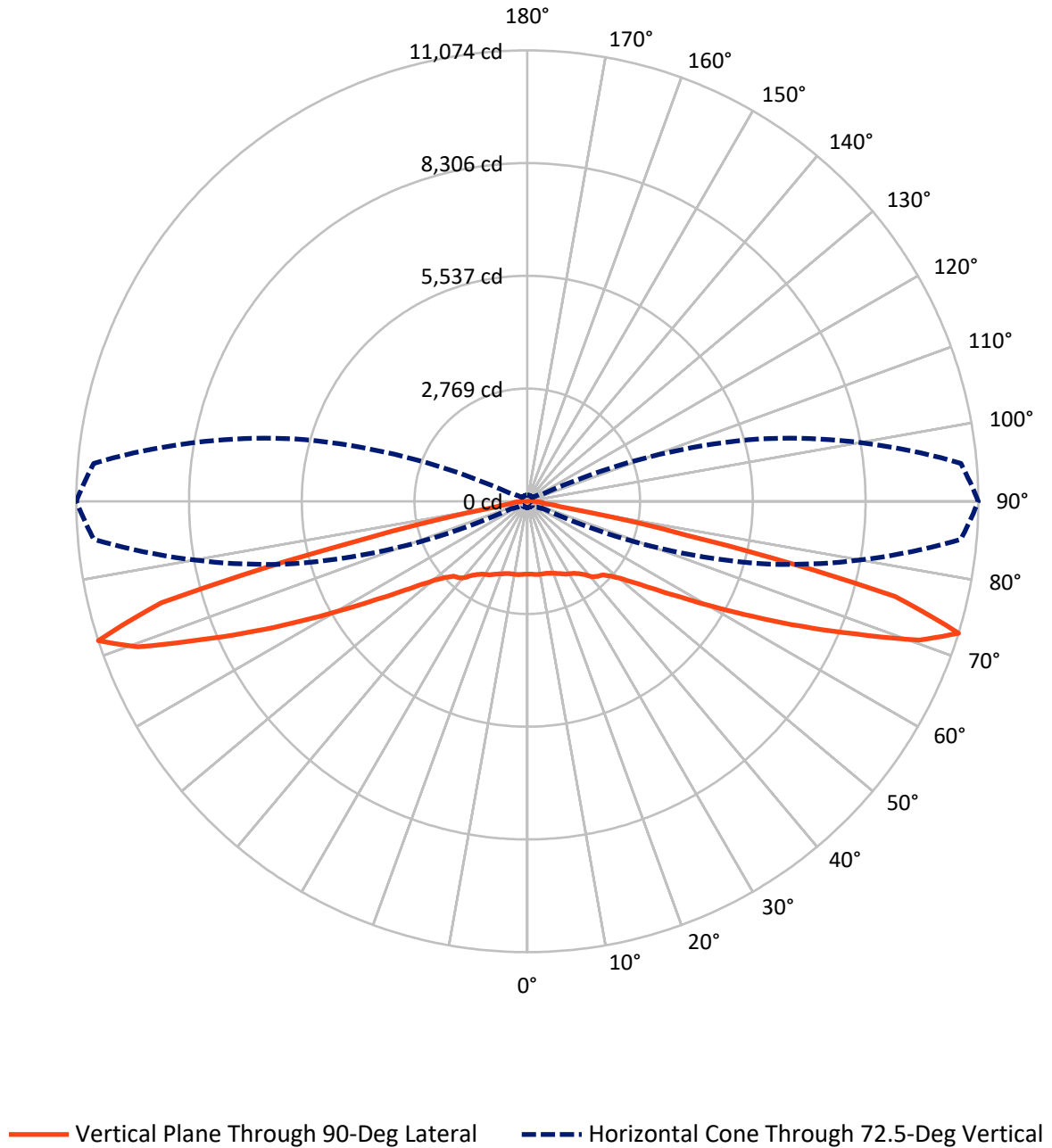
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type I - Short - N/A

REPORT NUMBER: P882465
CATALOG NUMBER: NAV-SB2B-835-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P882465
 CATALOG NUMBER: NAV-SB2B-835-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4789.5	0.0	4789.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4789.5	0.0	4789.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9579.0	0.0	9579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	1.8
10°-20°	530.7	5.5
20°-30°	884.8	9.2
30°-40°	1216.9	12.7
40°-50°	1486.2	15.5
50°-60°	1718.9	17.9
60°-70°	2049.6	21.4
70°-80°	1430.5	14.9
80°-90°	87.9	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°	9579.0	100.0
0°-180°	9579.0	100.0

Coefficient of Utilization



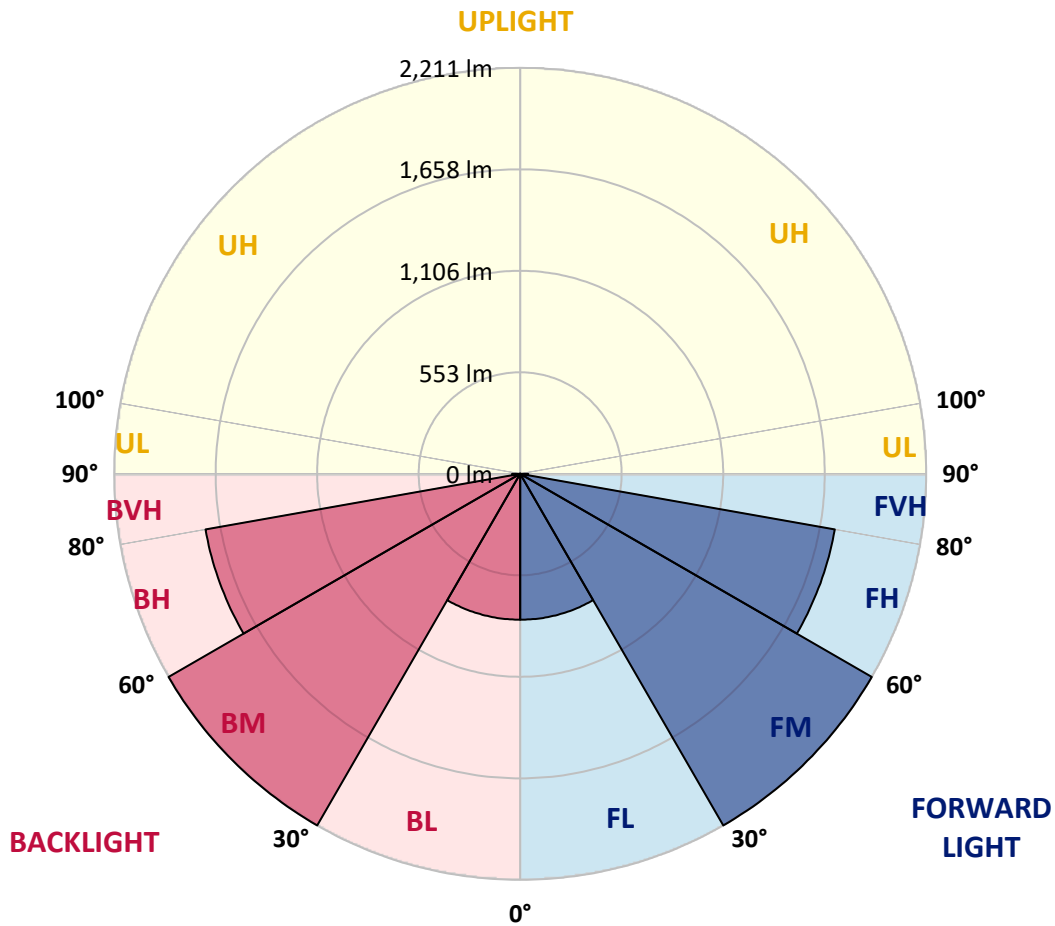
REPORT NUMBER: P882465
 CATALOG NUMBER: NAV-SB2B-835-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	794.5	8.3			
FM (30°-60°)	2211.0	23.1			
FH (60°-80°)	1740.0	18.2			G1/1800
FVH (80°-90°)	43.9	0.5			G1/100
BL (0°-30°)	794.5	8.3	B2/1000		
BM (30°-60°)	2211.0	23.1	B2/2500		
BH (60°-80°)	1740.0	18.2	B3/2500		G3/2500
BVH (80°-90°)	43.9	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: P882465
 CATALOG NUMBER: NAV-SB2B-835-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9	1789.9
2.5°	1791.5	1793.5	1793.5	1792.0	1795.5	1792.5	1792.5	1791.0	1792.5	1791.0	1791.0
5°	1800.6	1803.2	1804.2	1803.7	1808.3	1805.7	1805.7	1803.7	1804.2	1802.7	1802.7
7.5°	1817.9	1821.5	1823.5	1826.1	1832.7	1829.6	1827.6	1821.5	1819.0	1814.9	1814.9
10°	1823.5	1827.6	1834.2	1847.5	1862.7	1863.2	1857.1	1841.9	1830.2	1821.0	1819.5
12.5°	1806.2	1811.8	1825.6	1852.6	1886.7	1900.4	1890.7	1865.3	1842.4	1826.1	1823.5
15°	1784.3	1790.4	1811.3	1852.0	1902.4	1934.5	1933.5	1899.9	1863.2	1837.8	1833.7
17.5°	1750.2	1756.3	1786.4	1843.4	1914.7	1967.6	1981.9	1947.2	1895.8	1861.7	1856.1
20°	1688.6	1694.2	1736.0	1815.9	1918.7	2002.7	2039.9	2009.4	1945.2	1898.9	1890.2
22.5°	1608.7	1617.4	1666.2	1768.6	1909.1	2039.4	2106.1	2085.2	2002.7	1938.6	1926.9
25°	1523.2	1532.3	1589.4	1710.5	1884.1	2065.9	2184.5	2171.2	2067.9	1988.0	1971.7
27.5°	1449.4	1459.0	1521.1	1653.0	1845.4	2076.0	2261.9	2268.5	2146.8	2042.4	2025.1
30°	1391.3	1400.5	1466.7	1606.7	1795.5	2065.9	2329.6	2375.4	2227.2	2089.8	2064.8
32.5°	1327.7	1339.4	1409.1	1550.2	1736.5	2041.4	2388.6	2490.9	2320.4	2140.7	2109.1
35°	1247.3	1257.9	1331.3	1472.8	1659.1	2002.2	2438.0	2619.2	2453.8	2218.1	2182.9
37.5°	1149.5	1159.7	1232.5	1376.1	1582.2	1947.2	2475.7	2763.8	2612.6	2329.6	2282.7
40°	1051.3	1060.9	1129.1	1268.1	1490.1	1877.0	2488.9	2905.3	2794.9	2482.8	2432.9
42.5°	961.1	969.8	1032.4	1161.7	1386.7	1787.4	2471.6	3028.5	2958.3	2589.7	2525.6
45°	878.2	885.8	941.3	1061.9	1279.3	1678.4	2419.7	3160.9	3152.8	2666.1	2579.5
47.5°	783.5	791.1	848.6	965.2	1171.9	1550.7	2331.6	3291.2	3423.1	2839.2	2739.4
50°	667.9	674.5	733.6	853.7	1060.4	1414.7	2209.4	3393.6	3764.2	3101.3	2976.1
52.5°	531.0	538.1	595.6	715.8	928.1	1268.6	2048.6	3460.2	4158.2	3484.2	3329.9
55°	395.0	400.1	450.0	558.0	764.1	1102.2	1847.0	3479.1	4605.2	4007.5	3814.6
57.5°	286.6	289.7	321.7	402.2	579.3	894.0	1602.1	3430.2	5137.2	4678.5	4435.6
60°	232.1	233.2	242.8	278.5	402.7	658.8	1306.3	3262.2	5714.5	5543.4	5237.5
62.5°	210.8	210.8	213.3	223.0	272.4	434.8	948.4	2914.0	6333.5	6636.4	6226.6
65°	196.0	196.0	197.0	201.6	214.8	276.9	598.7	2346.9	6855.3	7916.8	7398.5
67.5°	182.8	183.3	182.8	184.3	191.9	204.7	347.2	1620.9	7136.3	9243.4	8683.9
70°	169.0	170.0	167.5	167.5	173.6	174.1	217.4	888.9	6903.2	10355.3	10208.1
72.5°	152.7	154.3	150.2	149.2	153.7	151.7	163.4	426.6	5926.7	10687.2	11074.1
75°	138.5	140.5	131.3	128.8	128.8	127.3	132.9	218.9	3846.6	8718.1	9324.9
77.5°	125.7	129.8	115.1	106.9	104.9	100.3	108.4	133.9	1682.5	4093.0	4008.0
80°	103.9	109.5	94.7	85.0	81.5	76.4	85.5	93.7	500.4	950.5	910.2
82.5°	77.4	79.9	67.2	60.6	57.5	54.0	64.1	65.2	162.9	336.5	380.3
85°	49.4	50.4	41.2	35.6	34.1	32.6	40.7	35.6	62.1	247.4	359.4
87.5°	17.3	19.9	15.8	14.3	15.3	12.7	18.8	10.7	17.3	174.6	216.4
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)