

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: P884332

Luminaire Tested: **NAV-SB5A-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884332
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-SB5A-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19427 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

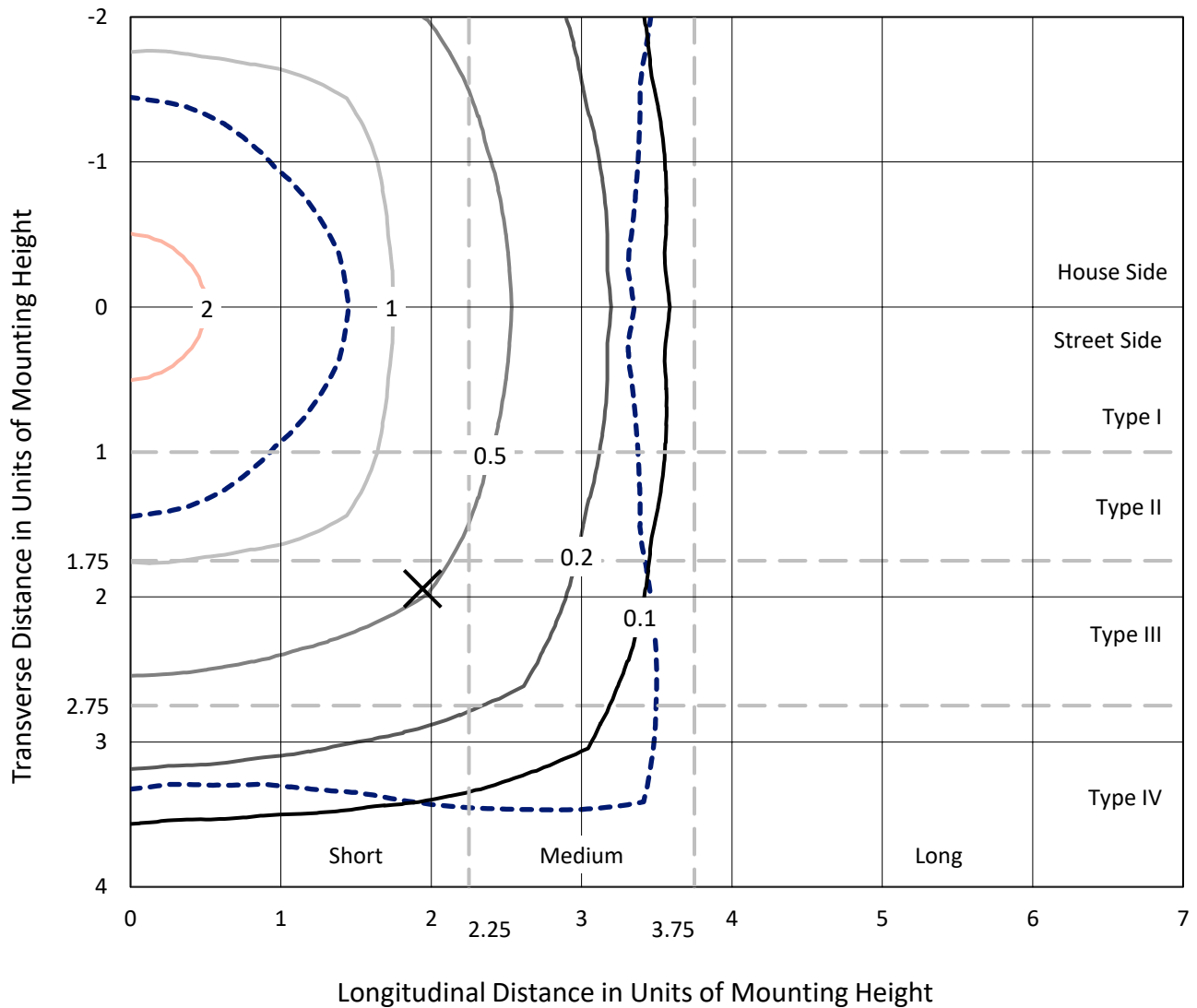
Input Watts (W): 141.7
Input Voltage (V): 120.0
Input Current (Ain): 1.201
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 10.503
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P884332
 CATALOG NUMBER: NAV-SB5A-835-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

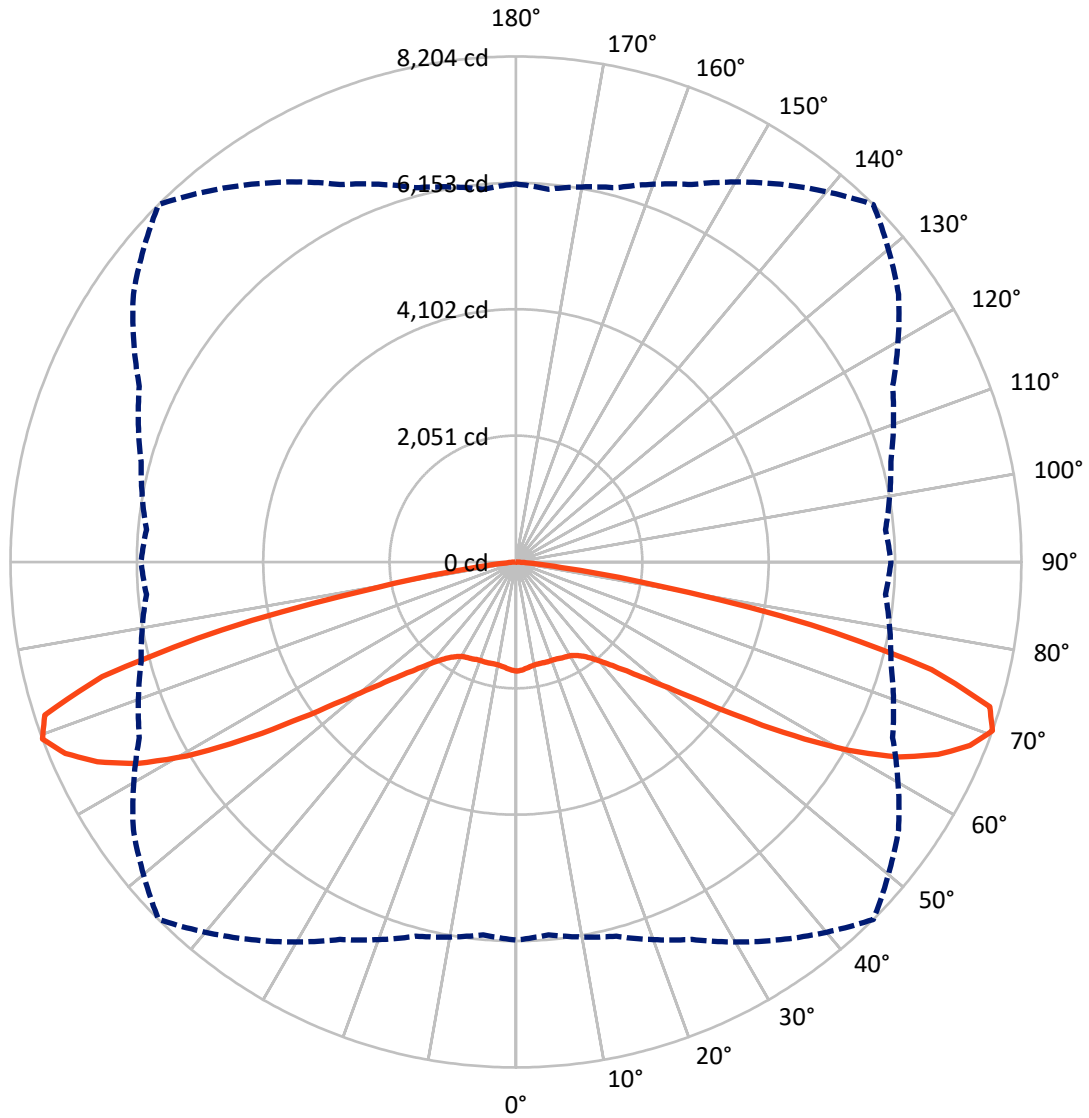
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

REPORT NUMBER: P884332
CATALOG NUMBER: NAV-SB5A-835-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P884332
 CATALOG NUMBER: NAV-SB5A-835-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9713.5	0.0	9713.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9713.5	0.0	9713.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19427.0	0.0	19427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	0.8
10°-20°	484.0	2.5
20°-30°	805.5	4.1
30°-40°	1218.2	6.3
40°-50°	2024.3	10.4
50°-60°	3819.8	19.7
60°-70°	6449.9	33.2
70°-80°	4238.3	21.8
80°-90°	222.0	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°	19427.0	100.0
0°-180°	19427.0	100.0

Coefficient of Utilization



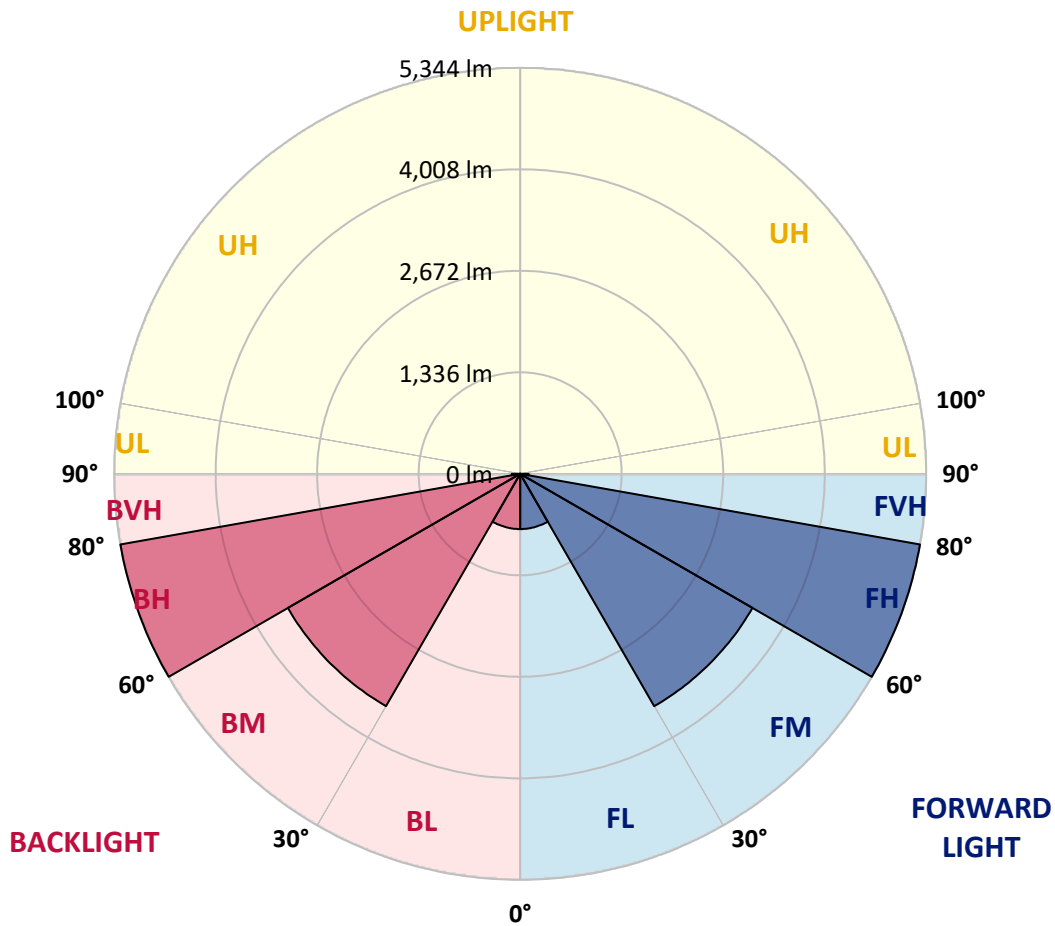
REPORT NUMBER: P884332
 CATALOG NUMBER: NAV-SB5A-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	727.2	3.7			
FM (30°-60°)	3531.2	18.2			
FH (60°-80°)	5344.1	27.5			G3/7500
FVH (80°-90°)	111.0	0.6			G2/225
BL (0°-30°)	727.2	3.7	B2/1000		
BM (30°-60°)	3531.2	18.2	B3/5000		
BH (60°-80°)	5344.1	27.5	B5		G3/7500
BVH (80°-90°)	111.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P884332

CATALOG NUMBER: NAV-SB5A-835-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1	1772.1
2.5°	1761.0	1766.1	1764.1	1760.0	1760.0	1757.0	1760.0	1762.0	1765.1	1767.1	1766.1
5°	1737.8	1741.8	1740.8	1737.8	1738.8	1735.8	1737.8	1740.8	1742.9	1743.9	1743.9
7.5°	1717.6	1721.6	1719.6	1714.6	1714.6	1711.5	1712.6	1715.6	1718.6	1719.6	1719.6
10°	1712.6	1716.6	1710.5	1702.5	1699.4	1695.4	1696.4	1699.4	1705.5	1708.5	1708.5
12.5°	1714.6	1717.6	1711.5	1699.4	1696.4	1692.4	1692.4	1695.4	1703.5	1707.5	1708.5
15°	1720.6	1723.7	1714.6	1701.5	1698.4	1695.4	1694.4	1698.4	1707.5	1714.6	1715.6
17.5°	1731.7	1734.8	1720.6	1702.5	1698.4	1699.4	1698.4	1701.5	1715.6	1728.7	1728.7
20°	1741.8	1743.9	1724.7	1702.5	1698.4	1699.4	1698.4	1704.5	1722.7	1740.8	1741.8
22.5°	1744.9	1746.9	1728.7	1709.5	1706.5	1707.5	1706.5	1712.6	1729.7	1747.9	1747.9
25°	1745.9	1748.9	1734.8	1719.6	1724.7	1726.7	1724.7	1725.7	1738.8	1755.0	1754.0
27.5°	1761.0	1765.1	1751.9	1738.8	1741.8	1740.8	1743.9	1746.9	1757.0	1773.1	1769.1
30°	1792.3	1795.4	1784.3	1771.1	1769.1	1762.0	1771.1	1781.2	1792.3	1806.5	1803.4
32.5°	1843.8	1849.9	1835.7	1821.6	1812.5	1808.5	1815.6	1832.7	1847.9	1863.0	1857.0
35°	1929.7	1933.7	1920.6	1894.3	1878.2	1878.2	1884.2	1906.4	1930.7	1949.9	1942.8
37.5°	2050.8	2055.9	2032.7	2001.3	1977.1	1977.1	1985.2	2008.4	2044.8	2072.0	2061.9
40°	2198.3	2205.3	2176.0	2143.7	2120.5	2116.5	2126.6	2152.8	2187.1	2221.5	2210.4
42.5°	2376.0	2384.0	2345.7	2317.4	2299.2	2299.2	2304.3	2328.5	2359.8	2402.2	2399.2
45°	2603.2	2617.3	2564.8	2536.5	2519.4	2523.4	2526.4	2547.6	2575.9	2624.4	2622.4
47.5°	2873.8	2887.9	2832.4	2803.1	2800.1	2819.3	2807.1	2822.3	2837.4	2893.0	2876.8
50°	3180.8	3205.0	3166.6	3164.6	3170.7	3206.0	3177.7	3185.8	3168.6	3204.0	3182.8
52.5°	3556.4	3591.7	3584.7	3596.8	3664.4	3737.1	3672.5	3644.2	3579.6	3590.7	3553.4
55°	4011.8	4065.3	4075.4	4148.1	4301.6	4450.0	4312.7	4198.6	4061.3	4036.0	3996.6
57.5°	4529.8	4572.2	4620.7	4769.1	5055.9	5319.4	5055.9	4803.4	4587.4	4535.9	4499.5
60°	5087.2	5139.7	5186.1	5405.3	5831.4	6202.0	5823.3	5422.4	5136.7	5067.0	5006.4
62.5°	5686.0	5753.6	5785.9	6029.3	6526.1	6968.4	6533.2	6047.5	5730.4	5655.7	5595.1
65°	6260.5	6316.1	6352.4	6611.9	7086.5	7529.8	7118.8	6640.2	6314.0	6216.1	6167.6
67.5°	6528.1	6558.4	6647.3	6941.1	7442.0	7947.8	7526.8	6972.4	6607.9	6436.2	6438.2
70°	6136.3	6074.7	6288.8	6759.4	7484.4	8204.3	7581.3	6745.2	6298.9	6020.2	6086.8
72.5°	4741.8	4635.8	5007.4	5812.2	6999.7	8040.7	7048.1	5857.6	5238.6	4673.2	4813.5
75°	2579.9	2459.8	2972.7	3990.6	5582.0	6969.4	5710.2	4104.7	3310.0	2560.8	2727.4
77.5°	728.0	682.6	1096.6	1930.7	3357.5	4893.3	3486.7	1973.1	1300.6	771.5	857.3
80°	223.2	216.1	292.8	581.6	1425.8	2343.7	1370.2	588.7	372.6	235.3	248.4
82.5°	132.3	121.2	145.4	212.1	363.5	736.1	353.4	221.1	177.7	119.2	129.2
85°	75.7	70.7	85.8	103.0	122.2	156.5	102.0	105.0	94.9	63.6	66.6
87.5°	31.3	28.3	33.3	32.3	28.3	36.4	27.3	32.3	38.4	25.2	23.2
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)