

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: P963687

Luminaire Tested: **NAV-SB3A-835-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-835-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13176.4 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

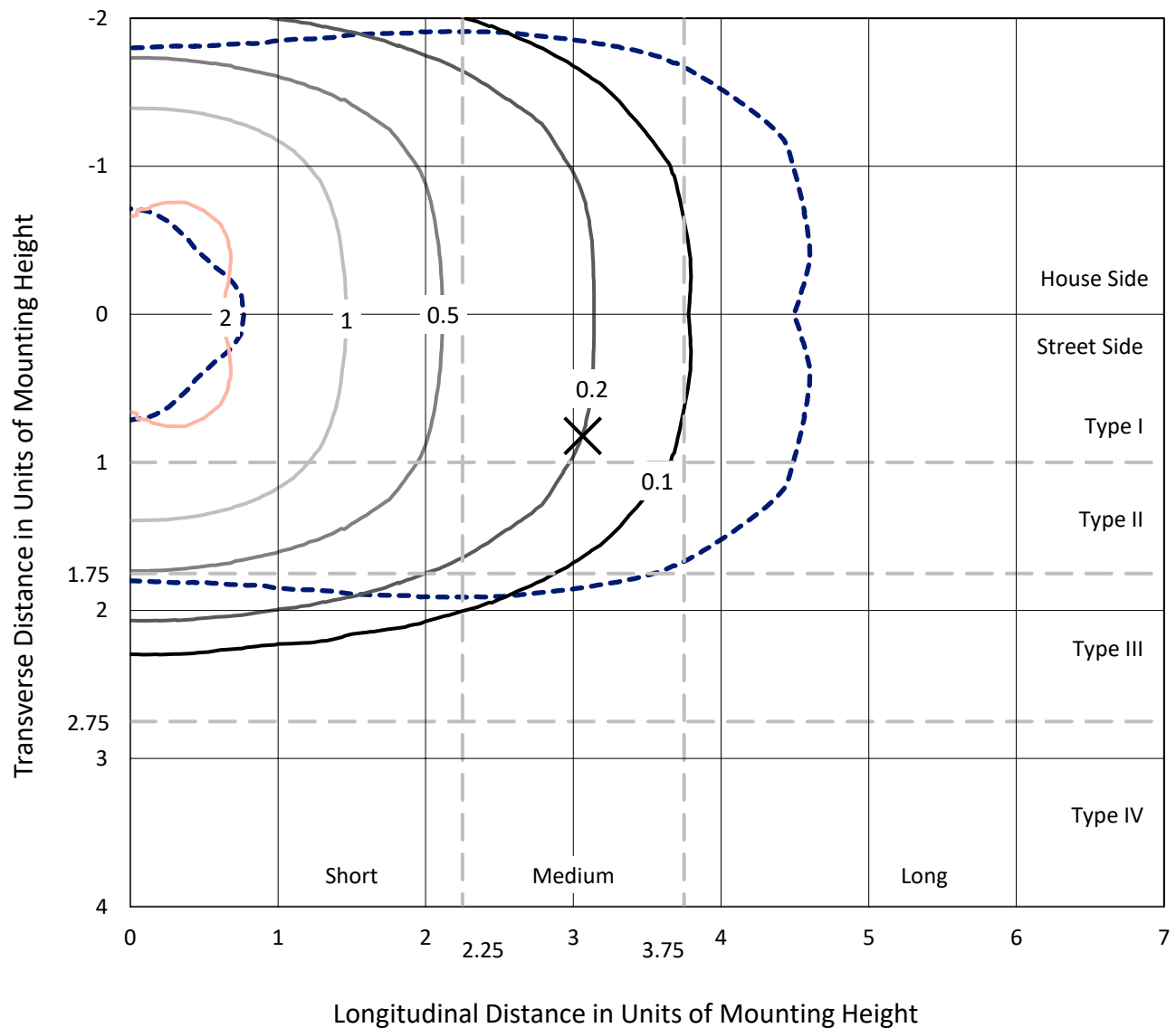


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Iso-Footcandle Lines of Horizontal Illumination

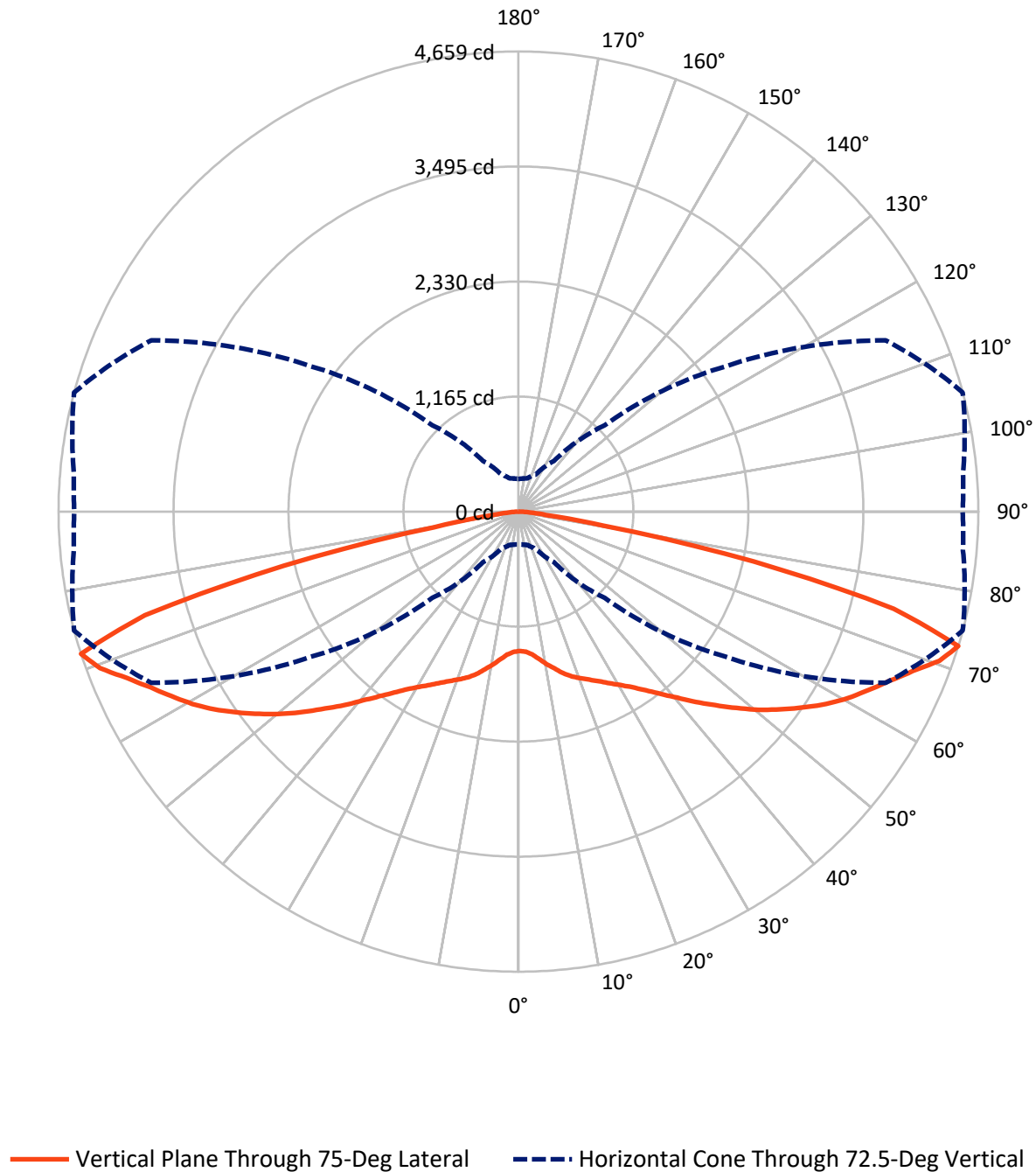
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6588.2	0.0	6588.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6588.2	0.0	6588.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	13176.4	0.0	13176.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	1.0
10°-20°	456.0	3.5
20°-30°	881.1	6.7
30°-40°	1487.9	11.3
40°-50°	2359.6	17.9
50°-60°	3159.2	24.0
60°-70°	3006.6	22.8
70°-80°	1568.9	11.9
80°-90°	118.8	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°	13176.4	100.0
0°-180°	13176.4	100.0

Coefficient of Utilization



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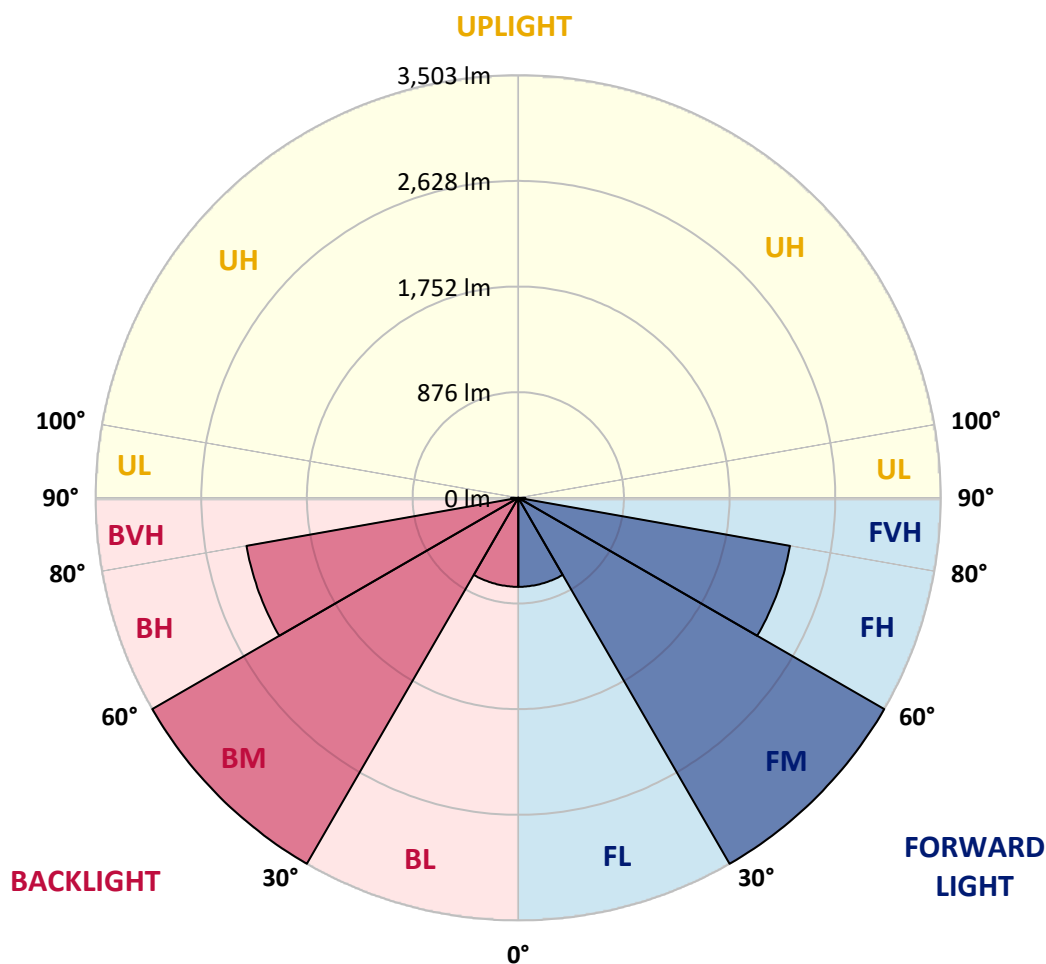
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	737.7	5.6			
FM	(30°-60°)	3503.4	26.6			
FH	(60°-80°)	2287.7	17.4			G2/5000
FVH	(80°-90°)	59.4	0.5			G1/100
BL	(0°-30°)	737.7	5.6	B2/1000		
BM	(30°-60°)	3503.4	26.6	B3/5000		
BH	(60°-80°)	2287.7	17.4	B3/2500		G3/2500
BVH	(80°-90°)	59.4	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4
2.5°	1411.4	1410.1	1411.4	1412.8	1412.1	1412.1	1415.4	1417.5	1421.5	1420.9	1420.1
5°	1402.0	1401.4	1406.7	1412.8	1417.5	1425.6	1435.6	1443.0	1452.4	1454.5	1454.5
7.5°	1397.3	1395.2	1404.7	1415.4	1430.3	1450.5	1470.0	1490.1	1506.2	1511.7	1513.0
10°	1400.7	1401.4	1414.1	1434.3	1457.9	1486.1	1513.7	1548.0	1570.9	1576.2	1581.7
12.5°	1416.1	1414.8	1436.3	1468.6	1500.9	1536.6	1568.9	1606.5	1631.4	1644.2	1649.5
15°	1444.4	1441.7	1472.0	1519.8	1566.8	1608.5	1634.8	1670.4	1699.3	1715.5	1721.6
17.5°	1478.0	1479.4	1519.0	1581.0	1642.9	1689.9	1714.8	1733.0	1755.2	1769.4	1776.0
20°	1537.2	1540.0	1584.3	1657.6	1728.3	1782.1	1802.3	1795.6	1801.6	1812.4	1820.5
22.5°	1616.6	1618.0	1667.8	1747.1	1821.1	1880.4	1893.8	1866.2	1849.4	1856.8	1862.1
25°	1708.8	1717.5	1767.3	1848.7	1924.7	1981.2	1987.3	1945.6	1903.8	1905.9	1909.3
27.5°	1821.1	1829.2	1879.6	1960.4	2037.8	2086.9	2086.2	2030.3	1969.1	1953.6	1958.4
30°	1942.9	1951.6	2003.5	2086.9	2158.9	2201.9	2192.5	2125.8	2038.4	2009.5	2012.9
32.5°	2087.5	2092.9	2145.4	2228.9	2295.4	2329.7	2310.2	2228.1	2119.2	2086.2	2094.3
35°	2262.5	2270.5	2309.5	2388.2	2446.8	2475.1	2442.1	2345.2	2222.7	2185.7	2191.1
37.5°	2462.3	2456.9	2501.3	2571.2	2619.7	2637.2	2592.1	2477.0	2341.2	2297.4	2305.5
40°	2670.8	2668.1	2716.6	2783.8	2810.0	2820.8	2754.3	2628.4	2477.7	2430.7	2446.2
42.5°	2859.9	2857.8	2923.1	2997.7	3029.4	3017.3	2933.1	2789.2	2635.8	2582.0	2595.5
45°	3011.2	3008.6	3088.6	3193.5	3255.4	3235.2	3122.3	2966.9	2795.9	2740.1	2752.8
47.5°	3127.6	3128.9	3215.0	3344.9	3453.2	3460.6	3315.3	3147.8	2972.2	2909.0	2927.8
50°	3211.7	3215.7	3307.9	3451.9	3599.9	3665.1	3512.4	3333.5	3154.5	3083.2	3104.7
52.5°	3232.5	3239.9	3350.9	3519.8	3694.1	3818.5	3712.9	3511.8	3327.5	3259.5	3276.9
55°	3121.5	3136.4	3276.9	3514.4	3751.9	3919.4	3889.2	3692.7	3501.6	3431.7	3451.2
57.5°	2866.6	2887.4	3051.6	3361.7	3739.1	3988.7	4025.7	3866.3	3675.9	3608.6	3624.1
60°	2509.3	2534.2	2691.6	3030.1	3558.8	4014.3	4121.9	4035.1	3836.0	3770.8	3784.9
62.5°	1970.5	2002.7	2191.1	2588.0	3178.0	3895.2	4204.0	4187.8	3980.0	3898.6	3908.0
65°	1264.1	1298.4	1496.9	1965.7	2670.1	3530.6	4229.6	4336.6	4132.0	4018.3	4032.5
67.5°	762.2	777.7	876.0	1191.5	1951.6	2980.9	4013.0	4501.4	4309.6	4168.4	4179.1
70°	487.7	496.5	555.0	699.7	1103.3	2174.9	3476.1	4532.3	4524.9	4322.4	4321.1
72.5°	331.0	333.6	349.1	414.4	624.3	1235.8	2563.8	4103.1	4659.4	4520.9	4499.3
75°	242.2	257.0	281.9	293.4	354.5	617.6	1469.2	2882.7	3926.9	3987.4	3840.7
77.5°	180.3	181.0	215.2	228.8	253.0	329.0	621.7	1609.2	2438.1	2559.8	2283.3
80°	152.7	144.6	144.0	184.3	190.3	205.2	277.9	555.7	873.2	529.4	400.3
82.5°	127.1	118.4	107.0	144.0	129.9	125.8	120.4	226.0	277.9	136.5	116.3
85°	88.8	84.8	80.8	94.2	74.0	63.2	57.8	105.6	117.1	57.8	51.1
87.5°	38.3	39.7	40.4	41.7	31.0	22.2	22.2	29.6	29.6	22.9	16.8
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)