

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: P963683

Luminaire Tested: **NAV-SB3A-835-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-835-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13408 lumens
Efficiency: N/A
Efficacy: 158.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

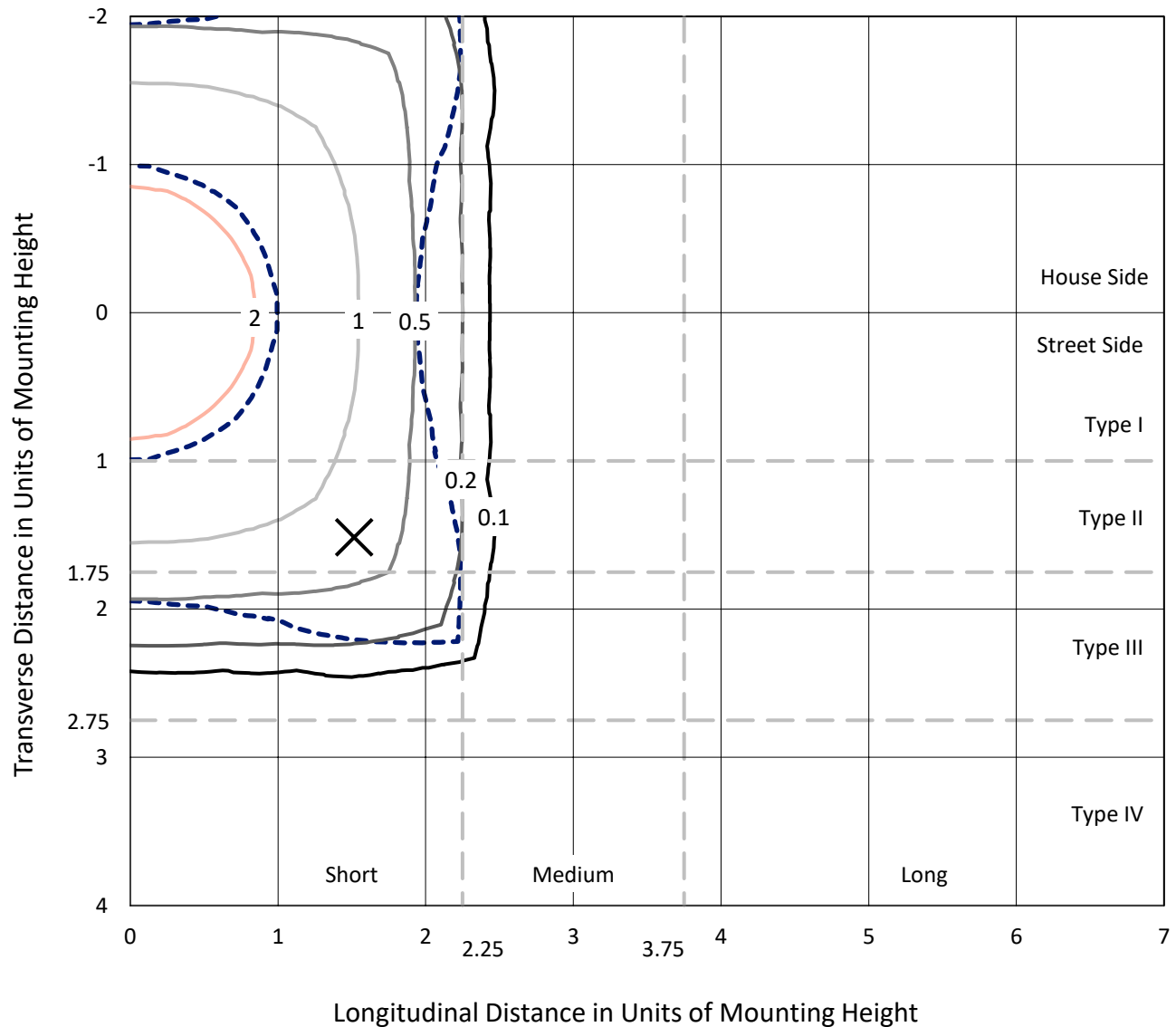
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

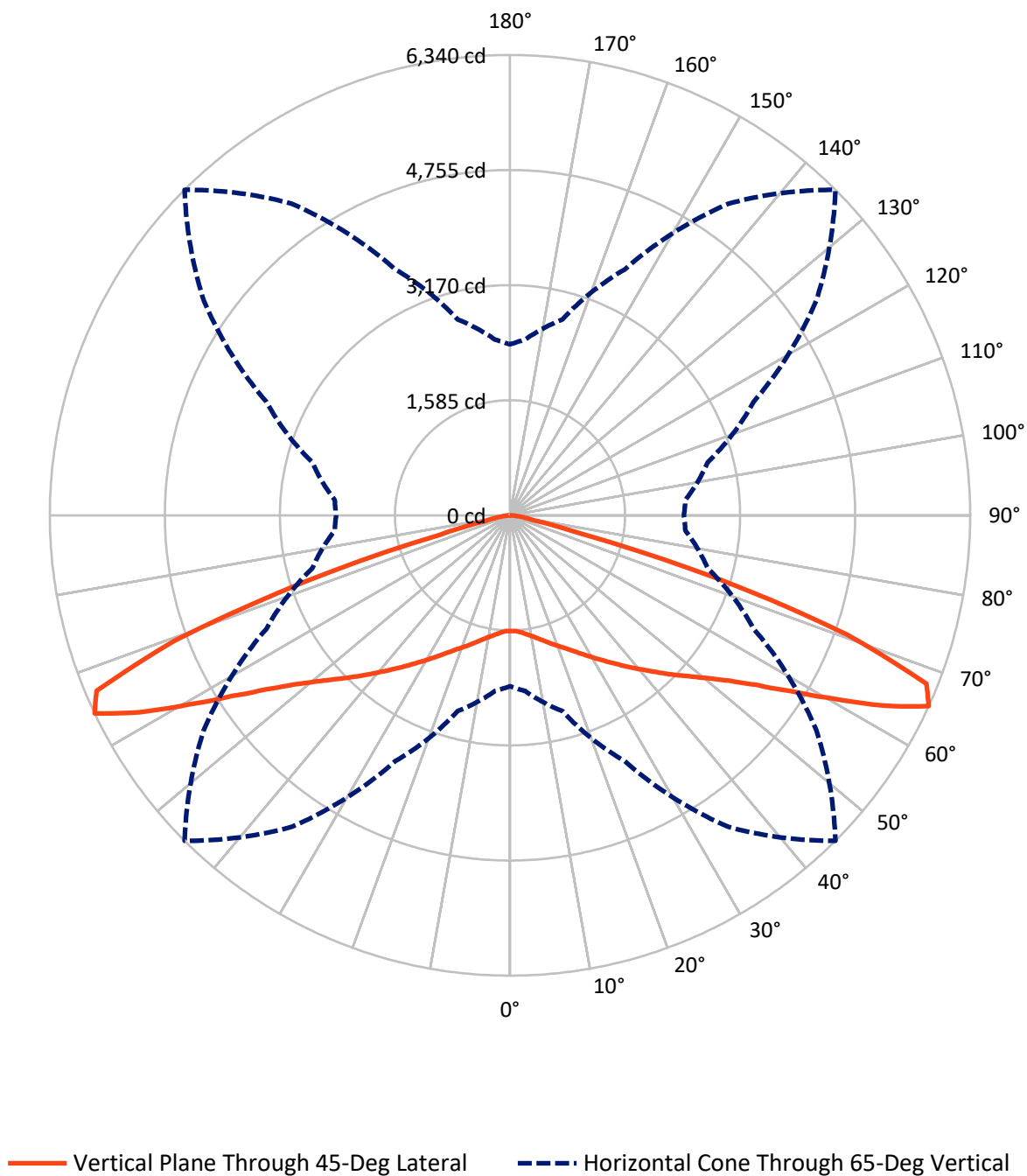
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6704.0	0.0	6704.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6704.0	0.0	6704.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13408.0	0.0	13408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	1.2
10°-20°	513.9	3.8
20°-30°	970.2	7.2
30°-40°	1588.7	11.8
40°-50°	2463.3	18.4
50°-60°	3638.9	27.1
60°-70°	3463.9	25.8
70°-80°	558.9	4.2
80°-90°	52.7	0.4
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°	13408.0	100.0
0°-180°	13408.0	100.0

Coefficient of Utilization



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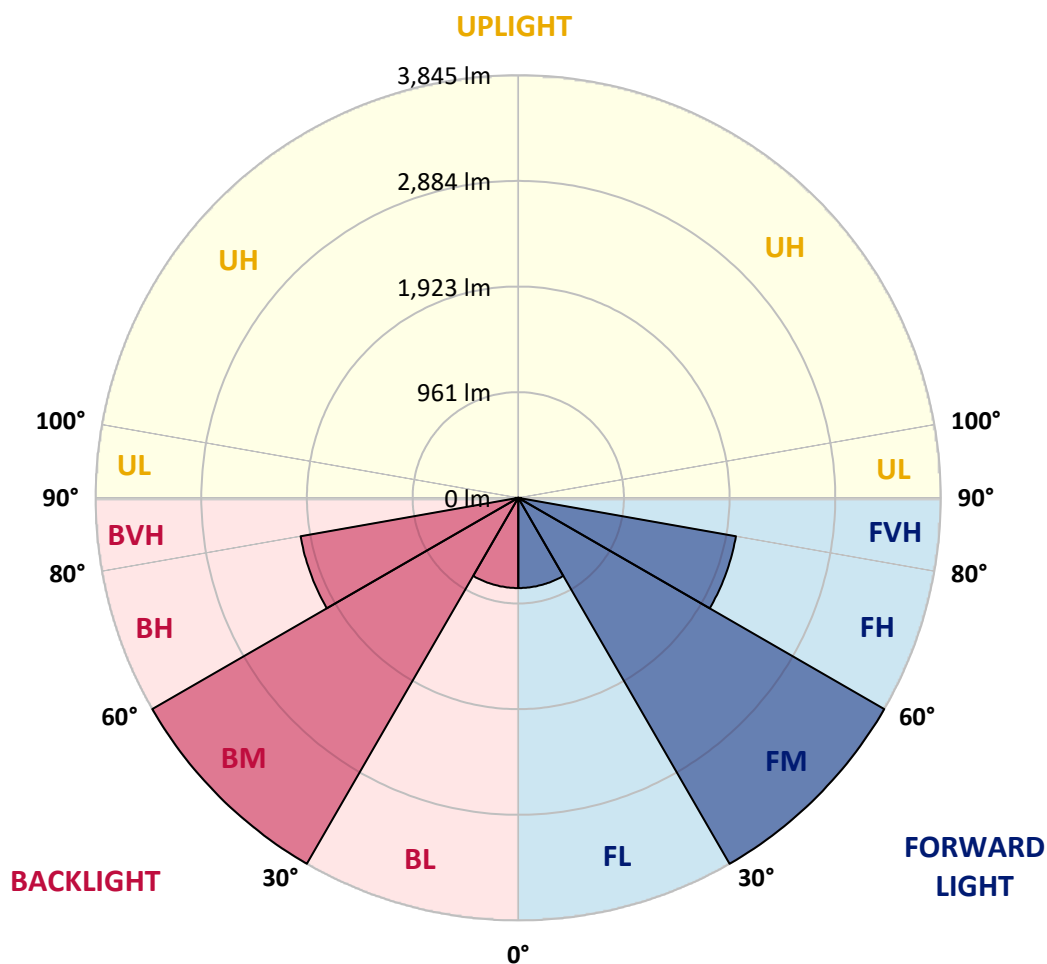
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	820.8	6.1			
FM	(30°-60°)	3845.5	28.7			
FH	(60°-80°)	2011.4	15.0			G2/5000
FVH	(80°-90°)	26.3	0.2			G1/100
BL	(0°-30°)	820.8	6.1	B2/1000		
BM	(30°-60°)	3845.5	28.7	B3/5000		
BH	(60°-80°)	2011.4	15.0	B3/2500		G2/5000
BVH	(80°-90°)	26.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1595.7	1595.7	1595.7	1595.7	1595.7	1595.7	1595.7	1595.7	1595.7	1595.7	1595.7
2.5°	1606.5	1601.0	1605.1	1601.8	1599.1	1596.3	1597.7	1602.4	1604.4	1605.1	1605.1
5°	1628.0	1623.3	1625.2	1625.2	1620.6	1619.2	1619.9	1623.3	1627.3	1627.3	1627.3
7.5°	1663.0	1658.2	1663.0	1660.3	1656.2	1654.9	1654.2	1656.9	1663.0	1663.0	1660.9
10°	1705.3	1700.0	1702.6	1701.3	1696.6	1694.5	1693.9	1697.9	1703.3	1702.6	1701.3
12.5°	1751.7	1745.7	1749.1	1745.1	1743.7	1741.7	1741.7	1741.0	1744.3	1741.7	1743.0
15°	1803.6	1799.5	1800.8	1798.2	1800.2	1798.9	1793.4	1790.8	1792.1	1788.1	1788.7
17.5°	1864.8	1855.4	1860.1	1858.7	1858.7	1861.4	1852.7	1849.3	1852.0	1848.0	1851.4
20°	1935.4	1926.0	1928.0	1925.4	1922.0	1924.6	1913.9	1916.5	1918.6	1915.9	1922.0
22.5°	2012.8	2000.7	2000.0	2001.3	1993.9	1994.6	1987.2	1993.9	1997.9	1990.5	1997.9
25°	2092.1	2079.4	2088.1	2084.7	2075.3	2077.4	2071.9	2078.7	2082.1	2072.7	2083.4
27.5°	2176.3	2167.5	2175.6	2177.6	2166.1	2174.2	2166.1	2172.2	2175.6	2161.4	2172.2
30°	2274.5	2265.8	2273.1	2278.5	2265.0	2277.9	2271.1	2275.1	2275.8	2259.0	2269.0
32.5°	2381.4	2368.0	2386.8	2389.5	2374.7	2390.2	2381.4	2386.8	2390.2	2367.3	2382.8
35°	2512.0	2495.2	2516.7	2513.3	2500.5	2513.3	2505.2	2513.3	2521.4	2493.7	2510.6
37.5°	2652.5	2635.1	2657.9	2651.9	2639.8	2648.5	2643.8	2649.2	2661.9	2632.3	2650.5
40°	2807.3	2785.7	2816.7	2805.9	2794.5	2793.1	2795.8	2799.2	2816.0	2783.1	2793.8
42.5°	2972.7	2949.8	2996.3	2979.5	2963.4	2952.5	2961.3	2968.0	2984.2	2947.2	2966.7
45°	3161.8	3135.6	3196.1	3175.9	3150.3	3128.1	3142.2	3152.4	3175.9	3131.5	3154.3
47.5°	3370.3	3340.7	3405.3	3399.2	3357.5	3309.1	3341.4	3370.3	3387.8	3334.0	3352.2
50°	3574.2	3551.3	3636.1	3643.5	3592.3	3524.4	3569.5	3613.1	3617.8	3547.2	3556.0
52.5°	3765.2	3742.4	3865.5	3911.8	3866.1	3785.4	3833.2	3877.6	3841.9	3750.4	3753.1
55°	3918.0	3899.1	4055.8	4175.5	4191.0	4124.4	4152.7	4151.4	4034.3	3893.7	3898.4
57.5°	3955.0	3952.2	4150.0	4403.6	4565.0	4573.1	4517.3	4374.7	4122.4	3933.4	3921.2
60°	3786.8	3803.6	4075.3	4522.7	4953.2	5132.2	4890.7	4483.7	4022.2	3759.8	3728.8
62.5°	3283.6	3328.0	3655.6	4377.4	5266.8	5775.3	5190.0	4318.2	3610.5	3268.1	3247.9
65°	2353.2	2430.6	2792.4	3735.6	5238.5	6340.3	5146.9	3705.4	2819.4	2424.4	2395.5
67.5°	1067.6	1146.4	1453.8	2557.7	4553.7	6187.0	4542.9	2584.5	1526.4	1150.4	1133.5
70°	386.8	400.3	499.2	1023.9	2910.2	4929.6	3034.6	1031.3	530.7	426.5	421.2
72.5°	234.1	236.2	257.0	366.6	1011.1	2992.9	1054.1	378.7	262.4	232.8	236.8
75°	148.6	147.3	183.0	224.1	358.5	1009.7	376.1	224.1	182.3	166.2	167.5
77.5°	107.0	110.3	131.2	167.5	226.0	342.5	222.0	160.1	131.2	107.6	109.7
80°	80.1	82.1	95.5	130.5	158.8	213.3	141.2	118.4	98.9	67.2	69.3
82.5°	57.8	57.8	62.5	94.8	96.9	115.0	76.7	83.4	65.3	47.8	47.8
85°	34.3	33.6	39.1	56.5	50.4	42.3	35.0	51.1	41.0	29.6	28.9
87.5°	12.1	12.8	12.1	16.2	13.4	11.5	10.8	14.1	11.5	10.0	9.4
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)