

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: P964023

Luminaire Tested: **NAV-SB3B-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18136.4 lumens
Efficiency: N/A
Efficacy: 166.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 109.2
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

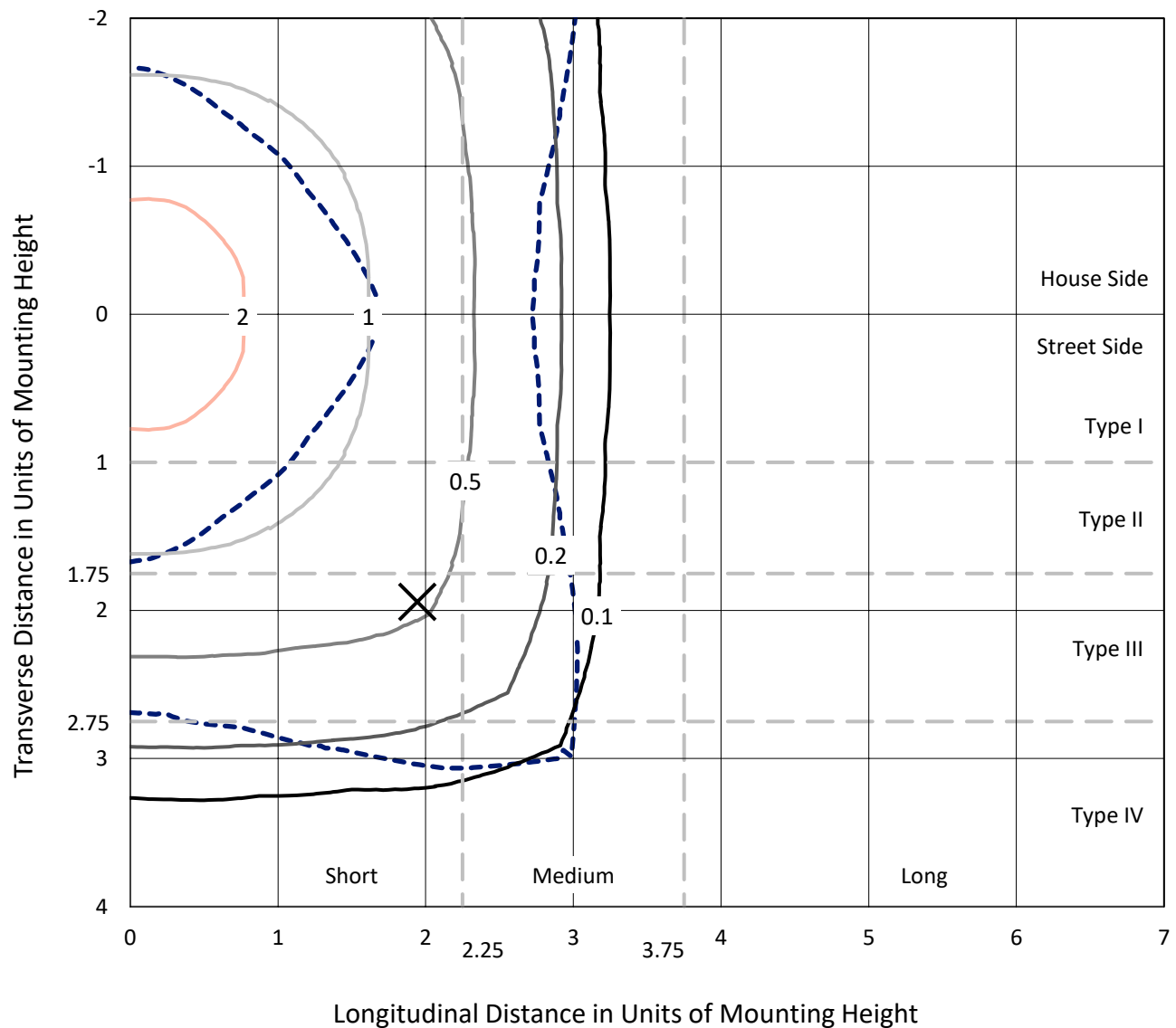


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Iso-Footcandle Lines of Horizontal Illumination

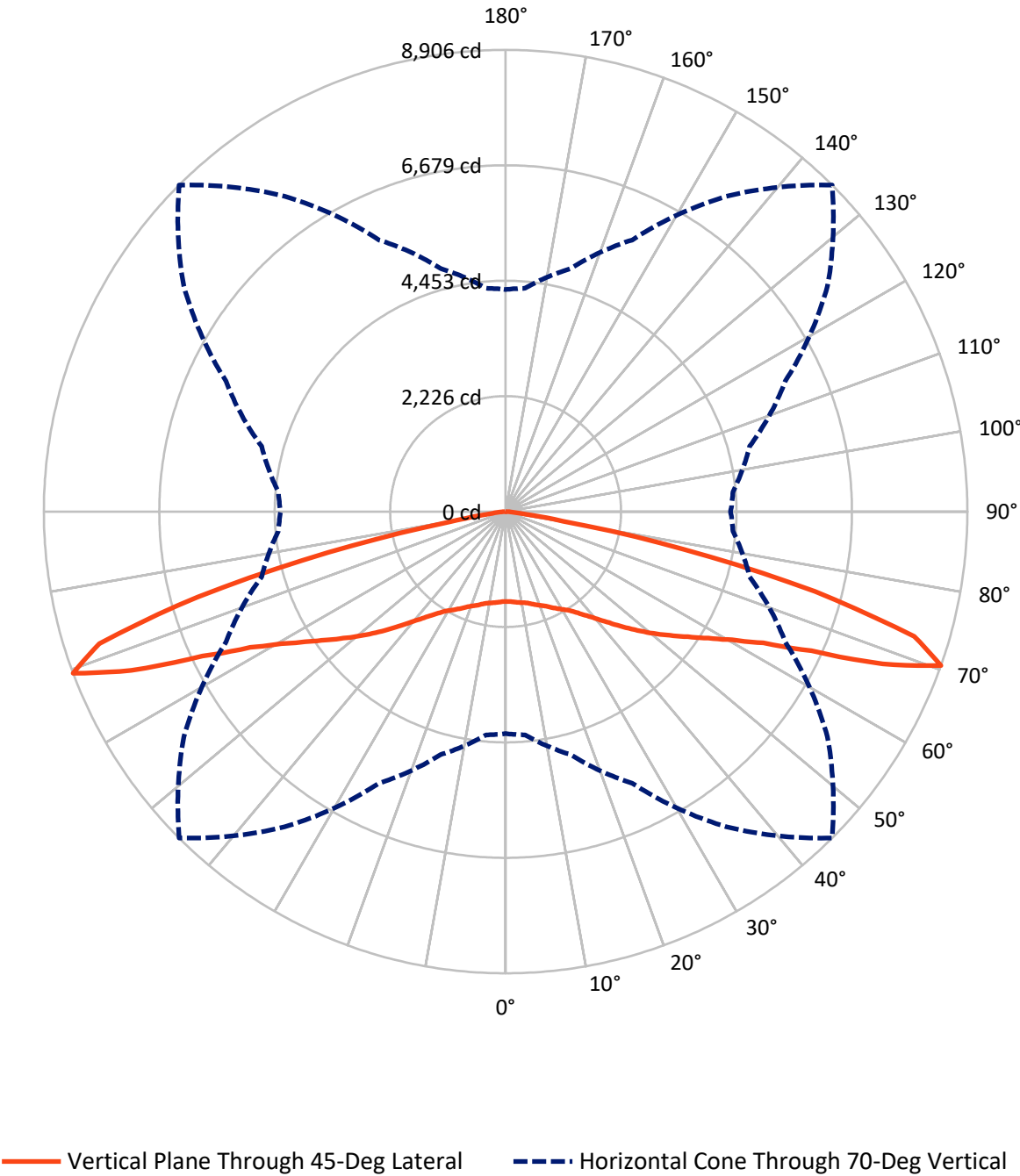
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	9068.2	0.0	9068.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9068.2	0.0	9068.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	18136.4	0.0	18136.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	0.9
10°-20°	523.4	2.9
20°-30°	935.3	5.2
30°-40°	1516.1	8.4
40°-50°	2469.5	13.6
50°-60°	3765.1	20.8
60°-70°	5601.3	30.9
70°-80°	3052.9	16.8
80°-90°	104.0	0.6
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°	18136.4	100.0
0°-180°	18136.4	100.0

Coefficient of Utilization



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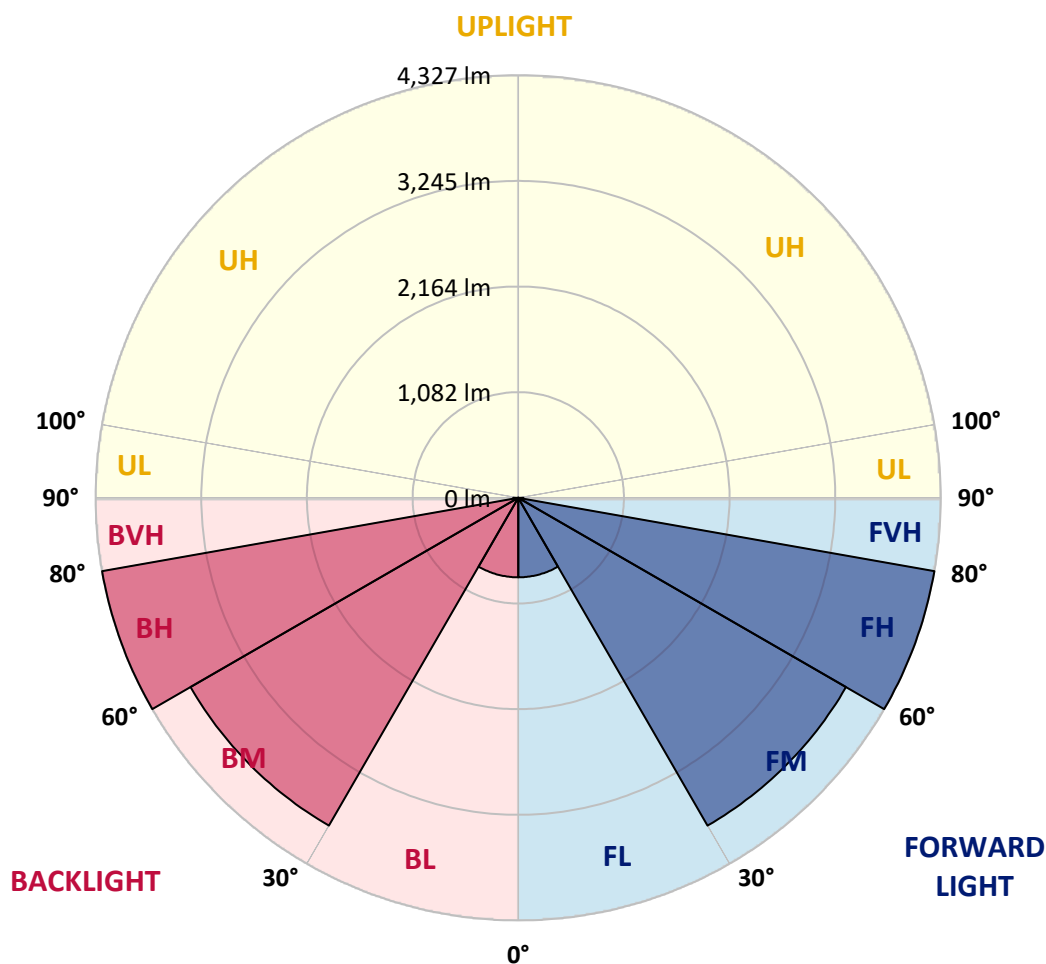
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	813.7	4.5			
FM	(30°-60°)	3875.4	21.4			
FH	(60°-80°)	4327.1	23.9			G2/5000
FVH	(80°-90°)	52.0	0.3			G1/100
BL	(0°-30°)	813.7	4.5	B2/1000		
BM	(30°-60°)	3875.4	21.4	B3/5000		
BH	(60°-80°)	4327.1	23.9	B4/5000		G2/5000
BVH	(80°-90°)	52.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3
2.5°	1745.5	1747.3	1743.6	1741.8	1740.0	1737.3	1738.2	1742.7	1746.4	1745.5	1746.4
5°	1760.0	1761.9	1759.1	1758.2	1754.6	1753.7	1753.7	1758.2	1761.0	1759.1	1760.0
7.5°	1776.4	1779.2	1774.6	1773.7	1771.9	1770.1	1769.2	1773.7	1776.4	1776.4	1776.4
10°	1791.9	1794.7	1791.0	1788.2	1786.5	1786.5	1784.6	1788.2	1792.8	1791.9	1791.9
12.5°	1808.3	1810.2	1806.5	1804.6	1804.6	1807.4	1804.6	1806.5	1810.2	1808.3	1807.4
15°	1828.3	1829.2	1828.3	1831.1	1835.6	1844.7	1836.5	1834.7	1836.5	1832.0	1832.0
17.5°	1855.7	1857.5	1861.1	1867.4	1873.8	1890.2	1875.6	1871.1	1871.1	1862.0	1862.0
20°	1889.4	1892.0	1897.5	1908.4	1916.6	1932.1	1917.6	1911.2	1908.4	1896.7	1896.7
22.5°	1924.8	1929.4	1937.6	1952.1	1966.8	1981.3	1966.8	1955.8	1947.6	1932.1	1931.2
25°	1965.8	1971.3	1984.0	2007.7	2027.8	2048.7	2031.3	2009.5	1993.1	1971.3	1970.4
27.5°	2024.1	2030.4	2045.9	2075.1	2100.5	2118.8	2102.4	2074.2	2051.4	2025.0	2024.1
30°	2106.1	2112.4	2130.7	2161.6	2178.8	2190.7	2179.8	2157.9	2130.7	2100.5	2100.5
32.5°	2211.6	2219.8	2239.9	2269.0	2272.6	2274.5	2270.9	2259.9	2239.9	2203.4	2204.4
35°	2345.5	2354.6	2377.4	2401.1	2397.4	2401.1	2395.6	2391.9	2377.4	2335.5	2335.5
37.5°	2509.4	2520.4	2543.9	2562.2	2553.1	2548.6	2549.5	2550.4	2542.2	2495.8	2495.8
40°	2699.6	2714.3	2731.5	2750.7	2735.2	2721.6	2730.7	2738.0	2730.7	2683.3	2683.3
42.5°	2895.4	2916.4	2934.6	2961.9	2949.1	2931.9	2944.6	2952.8	2937.3	2886.4	2890.0
45°	3113.0	3133.1	3156.8	3197.8	3188.7	3170.4	3188.7	3190.5	3164.1	3104.0	3110.4
47.5°	3338.0	3358.9	3394.4	3449.0	3445.4	3425.3	3449.0	3436.3	3402.6	3330.7	3326.1
50°	3551.0	3580.1	3634.8	3711.3	3718.6	3694.0	3725.9	3701.3	3644.8	3554.7	3552.9
52.5°	3751.4	3782.4	3868.8	3972.6	3999.0	3967.2	4009.9	3967.2	3882.5	3766.9	3755.9
55°	3961.7	3996.3	4099.2	4234.8	4287.7	4264.0	4304.1	4239.4	4119.2	3978.9	3959.9
57.5°	4209.4	4230.3	4353.2	4514.4	4603.6	4609.0	4627.3	4518.0	4372.3	4213.0	4191.1
60°	4477.9	4507.1	4640.9	4834.0	4975.0	5020.7	5001.5	4839.4	4670.1	4487.0	4457.9
62.5°	4822.1	4854.0	5014.2	5245.5	5468.6	5581.5	5506.8	5271.9	5062.5	4843.0	4804.8
65°	5107.2	5142.6	5432.2	5844.7	6250.8	6477.5	6289.9	5857.4	5480.5	5170.8	5119.9
67.5°	4900.4	4944.1	5398.5	6156.0	7165.8	7842.3	7200.4	6248.9	5510.5	5090.8	5027.9
70°	4283.1	4324.1	4854.0	5780.0	7423.5	8905.8	7578.2	5950.2	4871.3	4401.5	4338.6
72.5°	2843.6	2975.6	3511.9	4622.8	6628.6	8241.1	6694.2	4529.0	3257.9	2837.2	2745.3
75°	943.3	1048.9	1414.9	2396.4	4439.7	6163.3	4226.7	2120.6	1120.8	806.7	763.0
77.5°	237.6	274.1	377.9	685.6	1771.0	3509.2	1594.3	560.0	305.0	213.1	190.3
80°	115.6	127.5	182.1	228.6	443.4	1115.4	416.2	214.8	143.9	111.1	102.0
82.5°	63.8	64.7	102.9	129.3	164.8	288.6	171.2	125.7	82.8	67.3	67.3
85°	39.2	38.2	54.6	69.2	69.2	102.9	81.9	69.2	47.4	41.9	43.7
87.5°	15.5	15.5	20.0	21.8	19.2	26.4	20.9	22.8	18.2	17.3	18.2
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)