

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: P965759

Luminaire Tested: **NAV-SB4A-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965759
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-SB4A-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17340.9 lumens
Efficiency: N/A
Efficacy: 152.1 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): 114
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



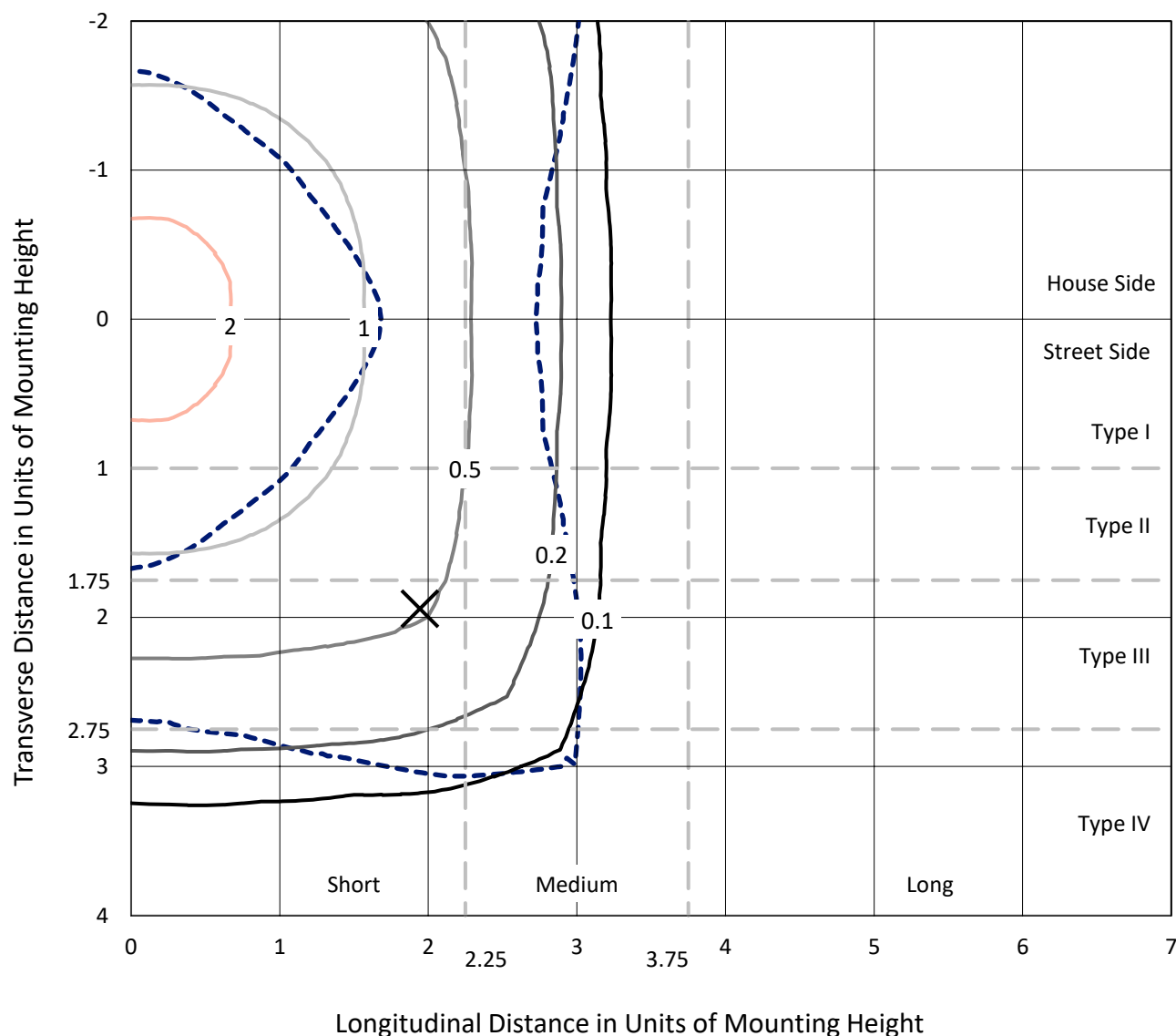
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

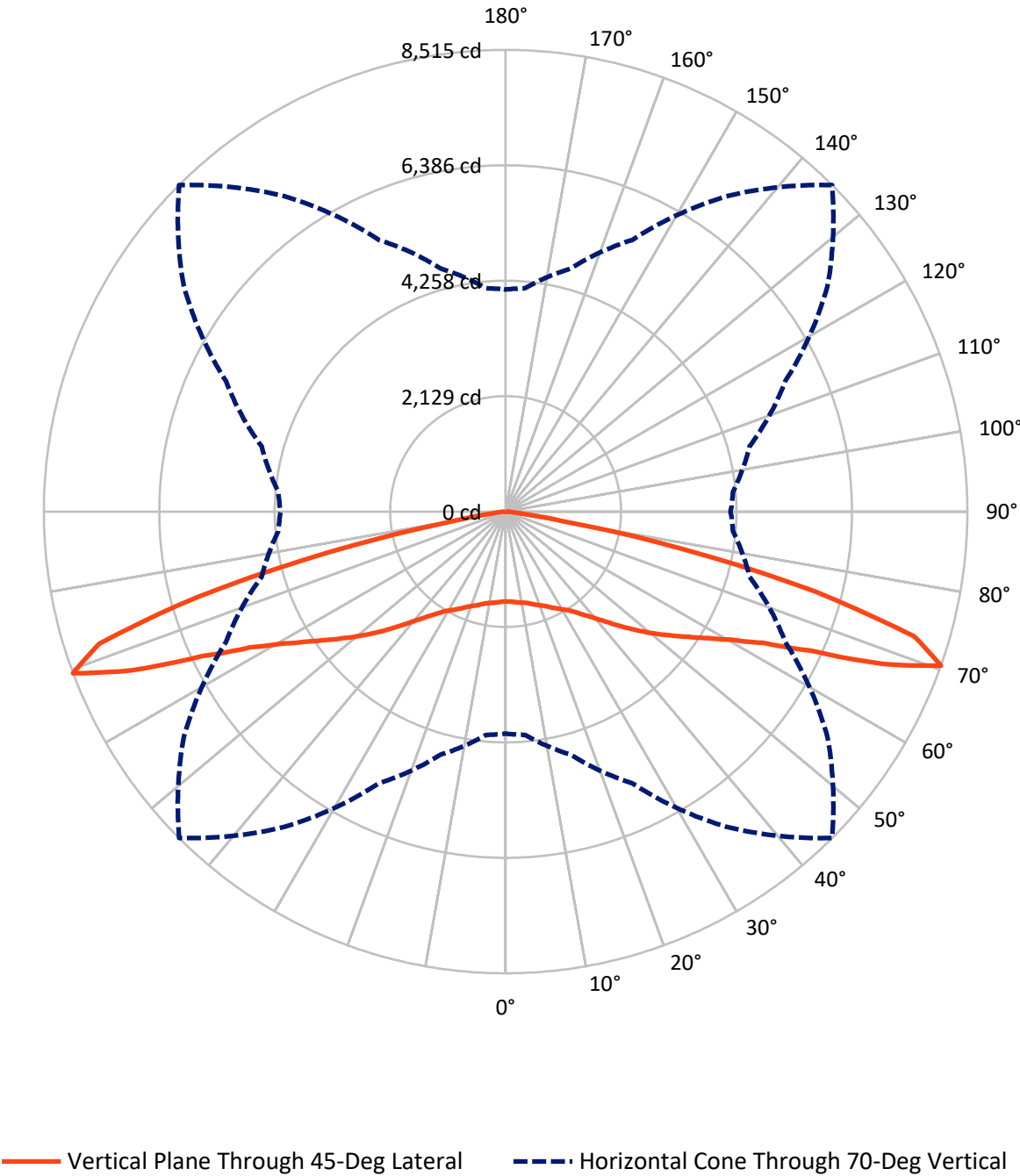


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc

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	8670.5	0.0	8670.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8670.5	0.0	8670.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17340.9	0.0	17340.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	0.9
10°-20°	500.4	2.9
20°-30°	894.3	5.2
30°-40°	1449.6	8.4
40°-50°	2361.2	13.6
50°-60°	3600.0	20.8
60°-70°	5355.7	30.9
70°-80°	2919.0	16.8
80°-90°	99.4	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°	17340.9	100.0
0°-180°	17340.9	100.0

Coefficient of Utilization



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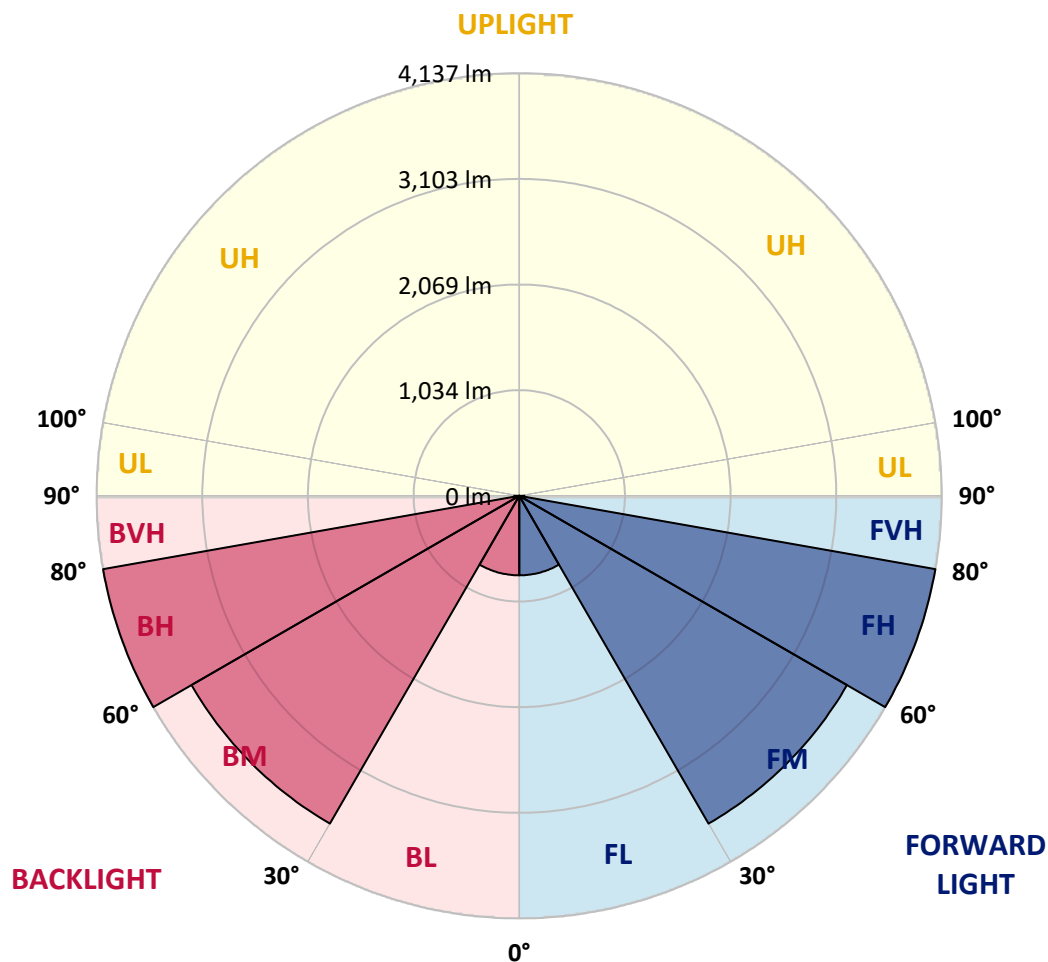
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	778.0	4.5			
FM	(30°-60°)	3705.4	21.4			
FH	(60°-80°)	4137.3	23.9			G2/5000
FVH	(80°-90°)	49.7	0.3			G1/100
BL	(0°-30°)	778.0	4.5	B2/1000		
BM	(30°-60°)	3705.4	21.4	B3/5000		
BH	(60°-80°)	4137.3	23.9	B4/5000		G2/5000
BVH	(80°-90°)	49.7	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°	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1
2.5°	1668.9	1670.6	1667.2	1665.4	1663.7	1661.1	1661.9	1666.3	1669.8	1668.9	1669.8
5°	1682.8	1684.6	1682.0	1681.1	1677.6	1676.8	1676.8	1681.1	1683.8	1682.0	1682.8
7.5°	1698.5	1701.1	1696.8	1695.9	1694.1	1692.4	1691.6	1695.9	1698.5	1698.5	1698.5
10°	1713.3	1716.0	1712.5	1709.8	1708.1	1708.1	1706.3	1709.8	1714.2	1713.3	1713.3
12.5°	1729.0	1730.7	1727.2	1725.5	1725.5	1728.2	1725.5	1727.2	1730.7	1729.0	1728.2
15°	1748.1	1749.1	1748.1	1750.8	1755.1	1763.8	1755.9	1754.3	1755.9	1751.6	1751.6
17.5°	1774.3	1776.0	1779.5	1785.6	1791.7	1807.4	1793.4	1789.0	1789.0	1780.3	1780.3
20°	1806.5	1809.1	1814.4	1824.7	1832.6	1847.4	1833.4	1827.4	1824.7	1813.4	1813.4
22.5°	1840.4	1844.8	1852.6	1866.5	1880.5	1894.4	1880.5	1870.0	1862.2	1847.4	1846.5
25°	1879.6	1884.9	1897.0	1919.6	1938.8	1958.8	1942.3	1921.4	1905.7	1884.9	1884.0
27.5°	1935.3	1941.5	1956.2	1984.1	2008.5	2025.8	2010.2	1983.2	1961.4	1936.2	1935.3
30°	2013.7	2019.8	2037.2	2066.8	2083.3	2094.6	2084.2	2063.3	2037.2	2008.5	2008.5
32.5°	2114.7	2122.5	2141.6	2169.5	2173.0	2174.7	2171.3	2160.8	2141.6	2106.8	2107.7
35°	2242.6	2251.3	2273.1	2295.7	2292.3	2295.7	2290.6	2287.1	2273.1	2233.1	2233.1
37.5°	2399.3	2409.8	2432.4	2449.9	2441.1	2436.7	2437.7	2438.5	2430.7	2386.3	2386.3
40°	2581.3	2595.2	2611.8	2630.0	2615.3	2602.2	2610.9	2617.8	2610.9	2565.6	2565.6
42.5°	2768.4	2788.5	2805.9	2832.1	2819.9	2803.3	2815.5	2823.4	2808.5	2759.8	2763.3
45°	2976.5	2995.7	3018.3	3057.5	3048.8	3031.4	3048.8	3050.5	3025.3	2967.9	2973.9
47.5°	3191.5	3211.6	3245.6	3297.8	3294.4	3275.2	3297.8	3285.6	3253.4	3184.6	3180.3
50°	3395.3	3423.2	3475.4	3548.6	3555.5	3531.9	3562.5	3538.9	3485.0	3398.8	3397.1
52.5°	3586.8	3616.4	3699.1	3798.3	3823.7	3793.1	3834.1	3793.1	3712.1	3601.6	3591.2
55°	3787.9	3821.0	3919.4	4049.2	4099.6	4076.9	4115.3	4053.5	3938.6	3804.5	3786.1
57.5°	4024.8	4044.8	4162.3	4316.4	4401.7	4406.9	4424.3	4319.9	4180.6	4028.2	4007.3
60°	4281.5	4309.4	4437.4	4621.9	4756.9	4800.4	4782.1	4627.2	4465.2	4290.2	4262.4
62.5°	4610.7	4641.1	4794.3	5015.4	5228.7	5336.7	5265.3	5040.7	4840.5	4630.6	4594.0
65°	4883.1	4917.1	5194.0	5588.3	5976.6	6193.4	6014.0	5600.5	5240.1	4944.1	4895.3
67.5°	4685.5	4727.3	5161.7	5886.1	6851.5	7498.4	6884.6	5974.8	5268.8	4867.4	4807.4
70°	4095.3	4134.4	4641.1	5526.5	7097.9	8515.2	7245.9	5689.3	4657.6	4208.4	4148.4
72.5°	2718.8	2845.1	3357.9	4420.0	6337.9	7879.7	6400.6	4330.3	3115.0	2712.8	2624.8
75°	901.9	1003.0	1352.9	2291.4	4245.0	5893.0	4041.3	2027.6	1071.7	771.3	729.6
77.5°	227.2	262.1	361.3	655.6	1693.3	3355.2	1524.4	535.5	291.6	203.7	181.9
80°	110.6	121.9	174.1	218.5	423.9	1066.5	397.9	205.4	137.6	106.2	97.5
82.5°	61.0	61.8	98.4	123.6	157.5	275.9	163.7	120.1	79.2	64.5	64.5
85°	37.4	36.6	52.3	66.2	66.2	98.4	78.3	66.2	45.3	40.1	41.8
87.5°	14.8	14.8	19.2	20.9	18.2	25.2	20.0	21.7	17.4	16.5	17.4
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)