

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: P964707

Luminaire Tested: **NAV-SB3C-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20933.6 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 149.1
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



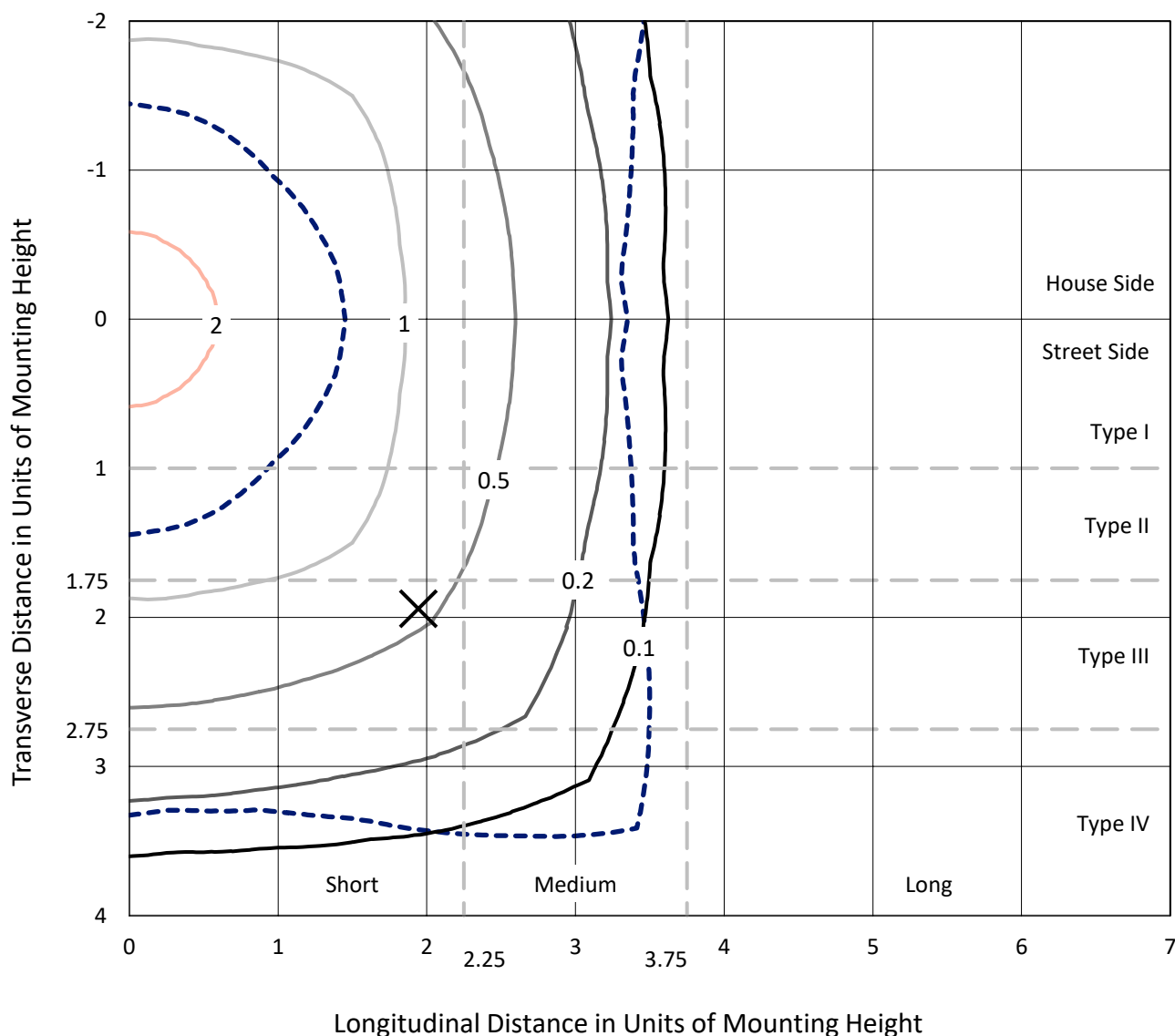
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

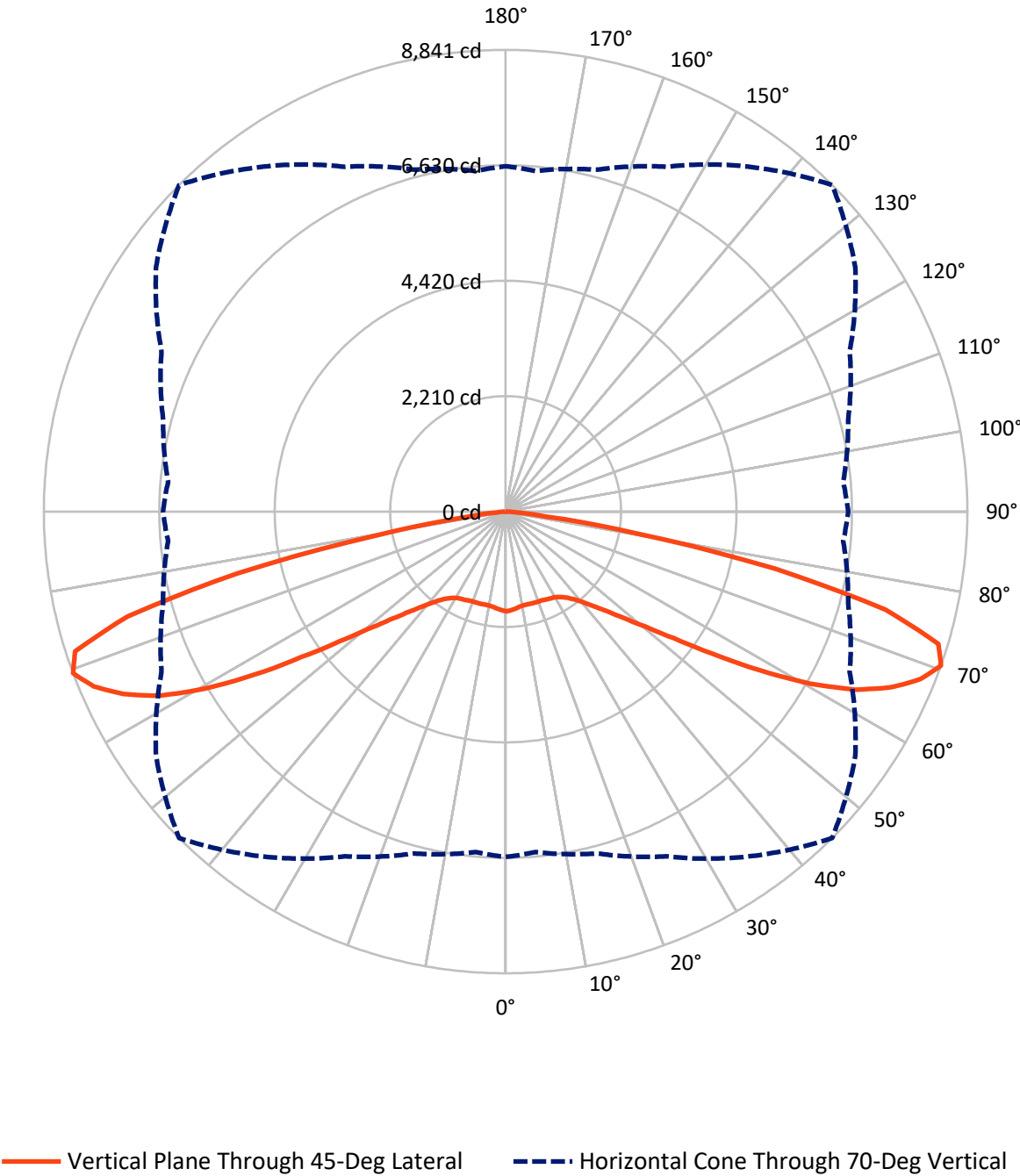


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

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	10466.8	0.0	10466.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10466.8	0.0	10466.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	20933.6	0.0	20933.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	0.8
10°-20°	521.6	2.5
20°-30°	868.0	4.1
30°-40°	1312.7	6.3
40°-50°	2181.3	10.4
50°-60°	4116.1	19.7
60°-70°	6950.1	33.2
70°-80°	4567.0	21.8
80°-90°	239.3	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°	20933.6	100.0
0°-180°	20933.6	100.0

Coefficient of Utilization



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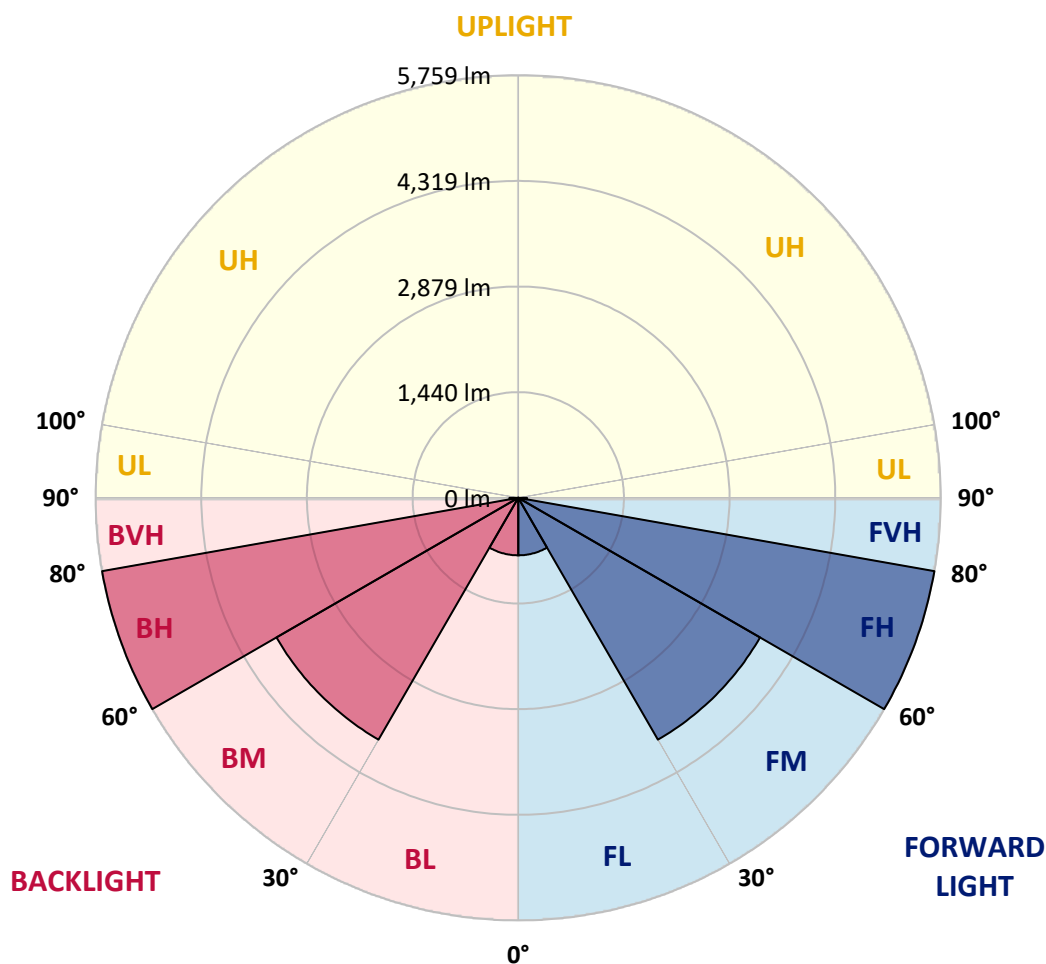
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	783.6	3.7			
FM	(30°-60°)	3805.0	18.2			
FH	(60°-80°)	5758.5	27.5			G3/7500
FVH	(80°-90°)	119.6	0.6			G2/225
BL	(0°-30°)	783.6	3.7	B2/1000		
BM	(30°-60°)	3805.0	18.2	B3/5000		
BH	(60°-80°)	5758.5	27.5	B5		G3/7500
BVH	(80°-90°)	119.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6	1909.6
2.5°	1897.6	1903.0	1900.9	1896.6	1896.6	1893.3	1896.6	1898.7	1902.0	1904.1	1903.0
5°	1872.6	1876.9	1875.9	1872.6	1873.7	1870.4	1872.6	1875.9	1878.0	1879.1	1879.1
7.5°	1850.8	1855.1	1853.0	1847.6	1847.6	1844.3	1845.4	1848.6	1851.9	1853.0	1853.0
10°	1845.4	1849.7	1843.2	1834.4	1831.3	1826.9	1828.0	1831.3	1837.7	1841.0	1841.0
12.5°	1847.6	1850.8	1844.3	1831.3	1828.0	1823.6	1823.6	1826.9	1835.6	1840.0	1841.0
15°	1854.1	1857.3	1847.6	1833.4	1830.1	1826.9	1825.8	1830.1	1840.0	1847.6	1848.6
17.5°	1866.0	1869.3	1854.1	1834.4	1830.1	1831.3	1830.1	1833.4	1848.6	1862.7	1862.7
20°	1876.9	1879.1	1858.4	1834.4	1830.1	1831.3	1830.1	1836.7	1856.3	1875.9	1876.9
22.5°	1880.2	1882.4	1862.7	1842.1	1838.8	1840.0	1838.8	1845.4	1863.9	1883.4	1883.4
25°	1881.3	1884.6	1869.3	1853.0	1858.4	1860.6	1858.4	1859.6	1873.7	1891.0	1890.0
27.5°	1897.6	1902.0	1887.8	1873.7	1876.9	1875.9	1879.1	1882.4	1893.3	1910.7	1906.3
30°	1931.3	1934.6	1922.6	1908.4	1906.3	1898.7	1908.4	1919.3	1931.3	1946.6	1943.3
32.5°	1986.9	1993.3	1978.1	1962.9	1953.1	1948.7	1956.3	1974.9	1991.2	2007.5	2001.0
35°	2079.3	2083.6	2069.5	2041.2	2023.8	2023.8	2030.3	2054.3	2080.3	2101.0	2093.5
37.5°	2209.9	2215.3	2190.3	2156.6	2130.5	2130.5	2139.2	2164.2	2203.3	2232.8	2221.8
40°	2368.8	2376.4	2344.8	2309.9	2284.9	2280.6	2291.5	2319.8	2356.8	2393.8	2381.8
42.5°	2560.2	2569.0	2527.5	2497.1	2477.5	2477.5	2483.0	2509.1	2542.8	2588.5	2585.3
45°	2805.0	2820.3	2763.7	2733.3	2714.7	2719.1	2722.4	2745.2	2775.7	2827.9	2825.7
47.5°	3096.6	3111.9	3052.0	3020.5	3017.2	3037.9	3024.9	3041.2	3057.5	3117.3	3099.9
50°	3427.4	3453.5	3412.2	3410.0	3416.5	3454.7	3424.1	3432.8	3414.4	3452.4	3429.5
52.5°	3832.2	3870.3	3862.6	3875.7	3948.6	4026.9	3957.3	3926.9	3857.2	3869.2	3828.9
55°	4322.9	4380.5	4391.4	4469.8	4635.2	4795.2	4647.1	4524.2	4376.2	4349.0	4306.5
57.5°	4881.0	4926.8	4979.0	5138.9	5448.0	5732.0	5448.0	5175.9	4943.1	4887.6	4848.5
60°	5481.7	5538.3	5588.3	5824.5	6283.6	6682.9	6274.9	5842.9	5535.0	5460.0	5394.7
62.5°	6126.9	6199.8	6234.7	6496.9	7032.2	7508.7	7039.8	6516.4	6174.8	6094.2	6028.9
65°	6746.0	6805.9	6845.1	7124.7	7636.0	8113.7	7670.9	7155.1	6803.7	6698.2	6645.9
67.5°	7034.4	7067.1	7162.8	7479.4	8019.1	8564.2	8110.5	7513.1	7120.4	6935.4	6937.5
70°	6612.2	6545.9	6776.5	7283.5	8064.8	8840.5	8169.2	7268.3	6787.3	6487.1	6558.9
72.5°	5109.6	4995.3	5395.7	6263.0	7542.5	8664.3	7594.7	6311.8	5644.9	5035.6	5186.8
75°	2780.0	2650.5	3203.3	4300.1	6014.8	7509.9	6153.1	4423.0	3566.7	2759.3	2938.9
77.5°	784.5	735.5	1181.6	2080.3	3617.8	5272.8	3757.1	2126.1	1401.5	831.3	923.7
80°	240.5	232.9	315.5	626.7	1536.4	2525.4	1476.5	634.4	401.5	253.5	267.6
82.5°	142.6	130.6	156.7	228.5	391.8	793.2	380.8	238.3	191.5	128.4	139.3
85°	81.6	76.2	92.5	111.0	131.6	168.6	109.9	113.2	102.3	68.6	71.9
87.5°	33.7	30.4	35.9	34.8	30.4	39.2	29.4	34.8	41.3	27.2	25.0
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)