

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: P883302

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
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: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19882 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

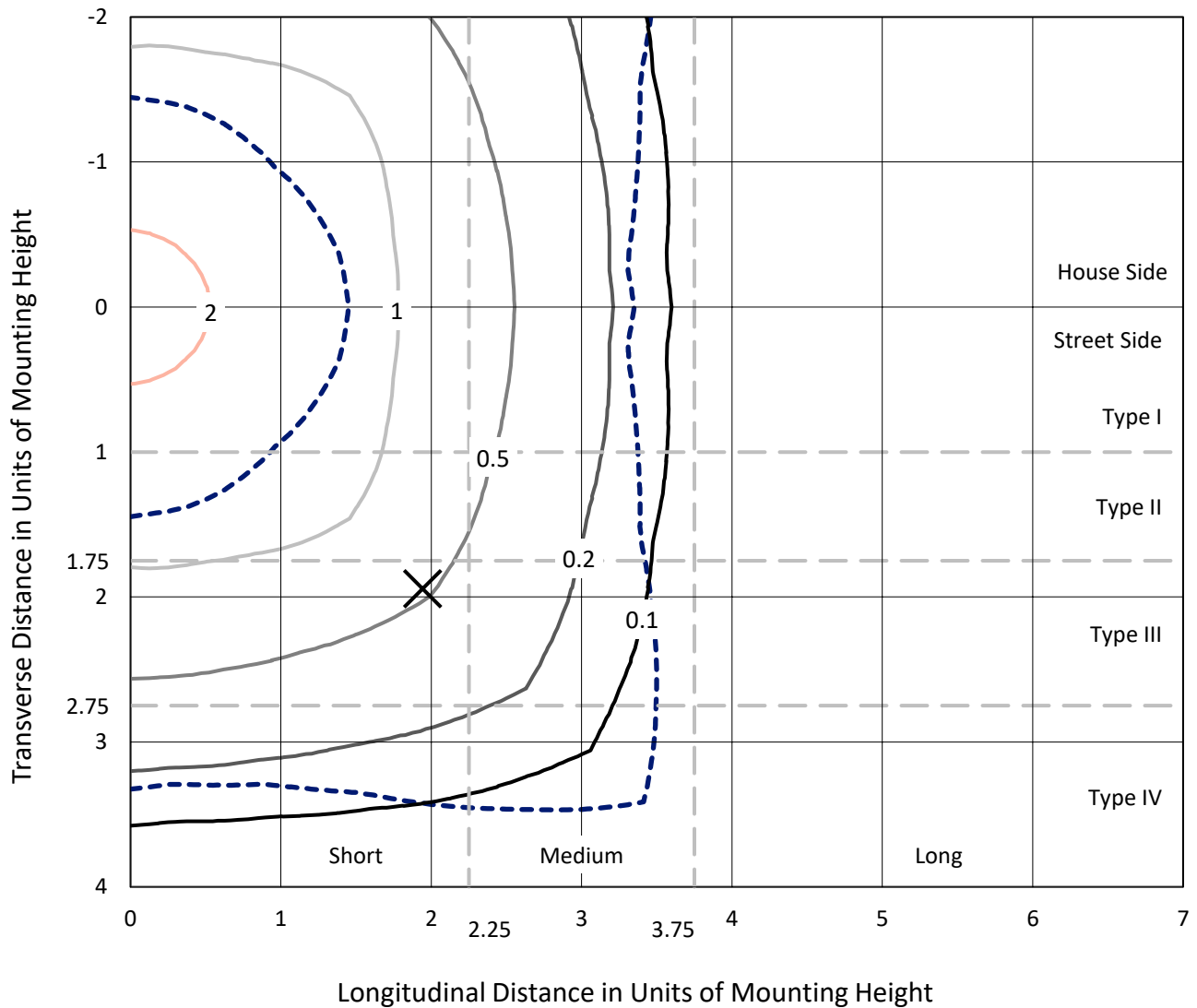
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

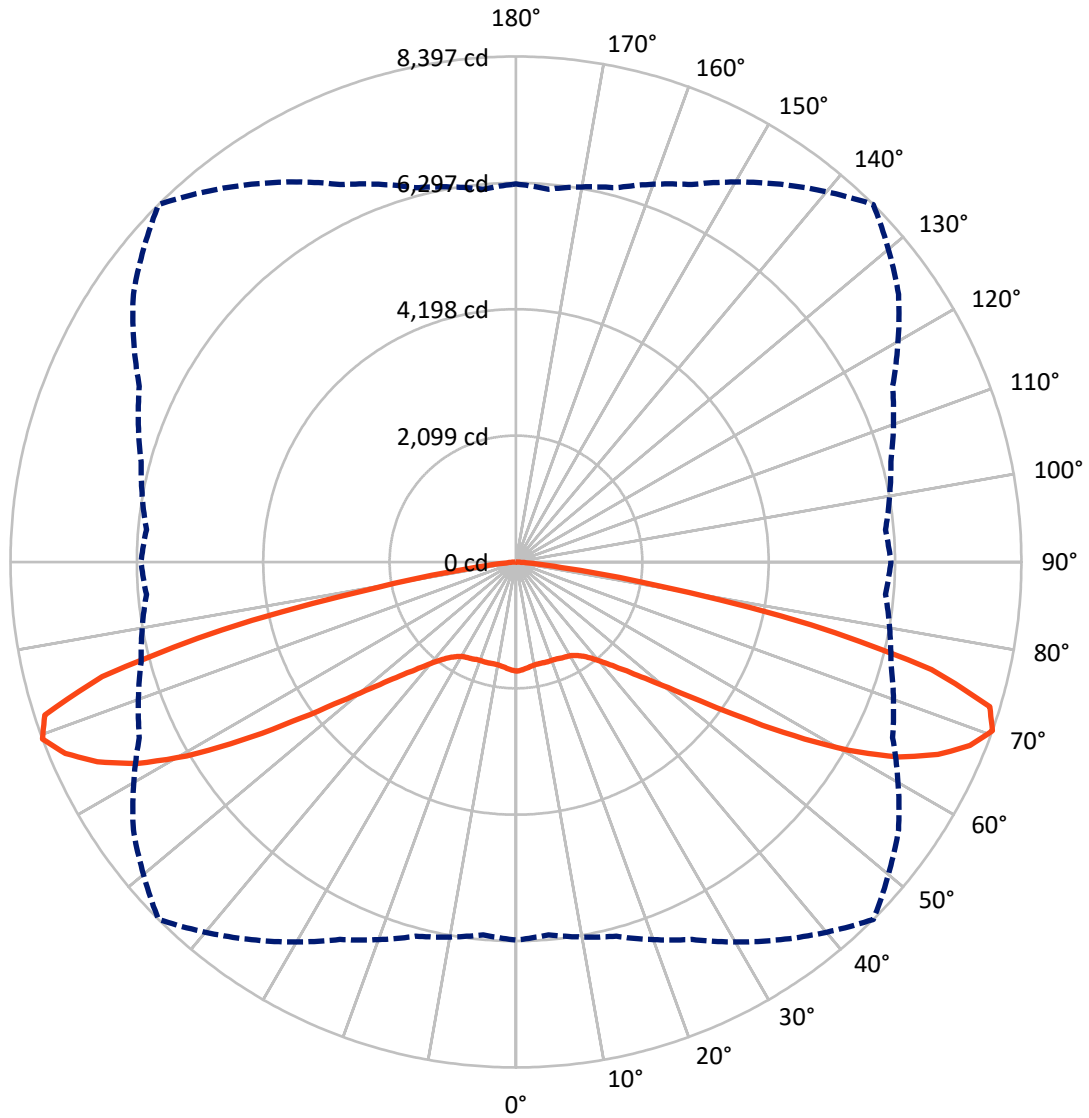
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9941.0	0.0	9941.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9941.0	0.0	9941.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19882.0	0.0	19882.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	0.8
10°-20°	495.4	2.5
20°-30°	824.4	4.1
30°-40°	1246.7	6.3
40°-50°	2071.7	10.4
50°-60°	3909.3	19.7
60°-70°	6601.0	33.2
70°-80°	4337.5	21.8
80°-90°	227.2	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°	19882.0	100.0
0°-180°	19882.0	100.0



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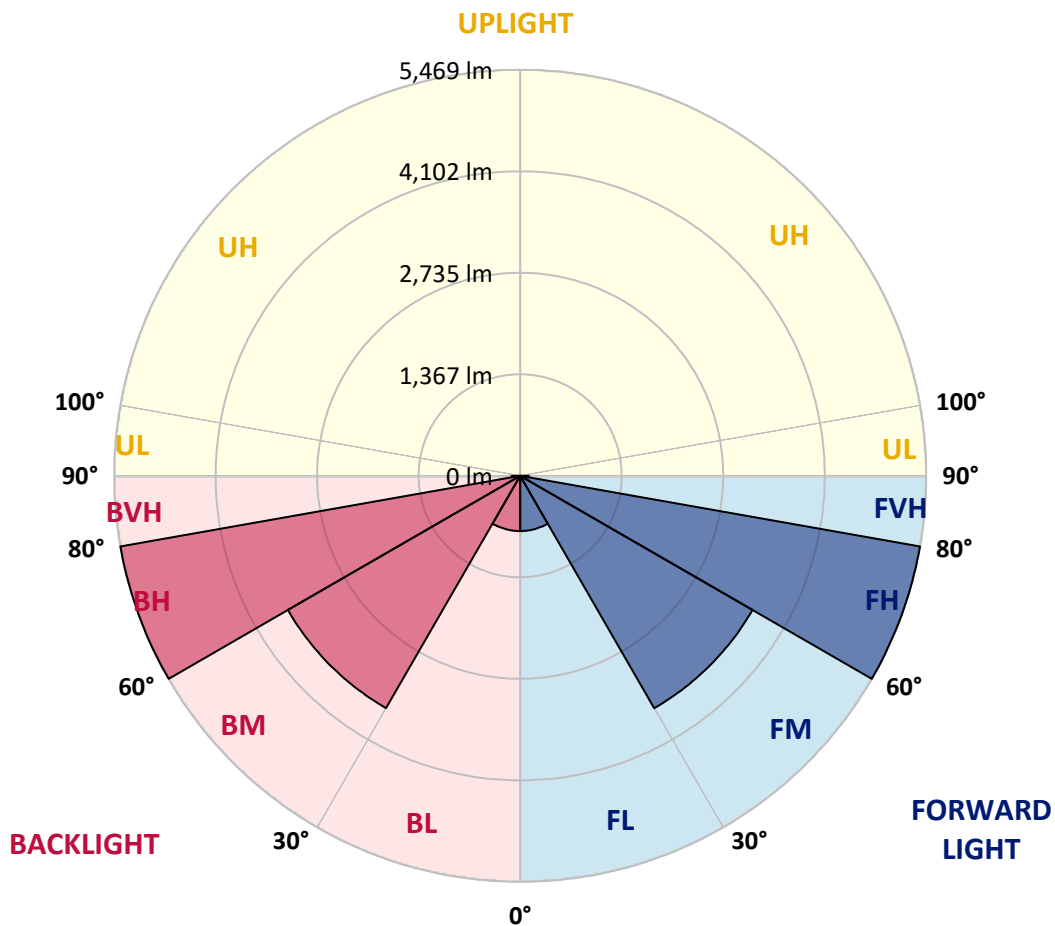
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	744.2	3.7			
FM (30°-60°)	3613.9	18.2			
FH (60°-80°)	5469.3	27.5			G3/7500
FVH (80°-90°)	113.6	0.6			G2/225
BL (0°-30°)	744.2	3.7	B2/1000		
BM (30°-60°)	3613.9	18.2	B3/5000		
BH (60°-80°)	5469.3	27.5	B5		G3/7500
BVH (80°-90°)	113.6	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°	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6
2.5°	1802.3	1807.4	1805.4	1801.2	1801.2	1798.1	1801.2	1803.3	1806.4	1808.5	1807.4
5°	1778.5	1782.6	1781.6	1778.5	1779.5	1776.4	1778.5	1781.6	1783.7	1784.7	1784.7
7.5°	1757.8	1762.0	1759.9	1754.7	1754.7	1751.6	1752.7	1755.8	1758.9	1759.9	1759.9
10°	1752.7	1756.8	1750.6	1742.3	1739.2	1735.1	1736.1	1739.2	1745.4	1748.5	1748.5
12.5°	1754.7	1757.8	1751.6	1739.2	1736.1	1732.0	1732.0	1735.1	1743.4	1747.5	1748.5
15°	1760.9	1764.0	1754.7	1741.3	1738.2	1735.1	1734.1	1738.2	1747.5	1754.7	1755.8
17.5°	1772.3	1775.4	1760.9	1742.3	1738.2	1739.2	1738.2	1741.3	1755.8	1769.2	1769.2
20°	1782.6	1784.7	1765.1	1742.3	1738.2	1739.2	1738.2	1744.4	1763.0	1781.6	1782.6
22.5°	1785.7	1787.8	1769.2	1749.6	1746.5	1747.5	1746.5	1752.7	1770.2	1788.8	1788.8
25°	1786.8	1789.9	1775.4	1759.9	1765.1	1767.1	1765.1	1766.1	1779.5	1796.1	1795.0
27.5°	1802.3	1806.4	1793.0	1779.5	1782.6	1781.6	1784.7	1787.8	1798.1	1814.7	1810.5
30°	1834.3	1837.4	1826.0	1812.6	1810.5	1803.3	1812.6	1822.9	1834.3	1848.8	1845.7
32.5°	1887.0	1893.2	1878.7	1864.3	1855.0	1850.8	1858.1	1875.6	1891.1	1906.6	1900.4
35°	1974.9	1979.0	1965.6	1938.7	1922.1	1922.1	1928.3	1951.1	1975.9	1995.5	1988.3
37.5°	2098.9	2104.0	2080.3	2048.2	2023.4	2023.4	2031.7	2055.5	2092.7	2120.6	2110.2
40°	2249.7	2257.0	2227.0	2193.9	2170.2	2166.0	2176.4	2203.2	2238.4	2273.5	2262.1
42.5°	2431.6	2439.9	2400.6	2371.7	2353.1	2353.1	2358.2	2383.0	2415.1	2458.5	2455.4
45°	2664.1	2678.6	2624.9	2595.9	2578.4	2582.5	2585.6	2607.3	2636.2	2685.8	2683.8
47.5°	2941.1	2955.6	2898.7	2868.8	2865.7	2885.3	2872.9	2888.4	2903.9	2960.7	2944.2
50°	3255.2	3280.1	3240.8	3238.7	3244.9	3281.1	3252.1	3260.4	3242.8	3279.0	3257.3
52.5°	3639.7	3675.8	3668.6	3681.0	3750.3	3824.7	3758.5	3729.6	3663.4	3674.8	3636.6
55°	4105.7	4160.5	4170.9	4245.3	4402.3	4554.2	4413.7	4296.9	4156.4	4130.5	4090.2
57.5°	4635.9	4679.3	4728.9	4880.8	5174.3	5444.0	5174.3	4915.9	4694.8	4642.1	4604.9
60°	5206.3	5260.1	5307.6	5531.9	5968.0	6347.2	5959.7	5549.4	5257.0	5185.7	5123.7
62.5°	5819.1	5888.4	5921.5	6170.5	6678.9	7131.6	6686.2	6189.1	5864.6	5788.1	5726.1
65°	6407.2	6464.0	6501.2	6766.8	7252.5	7706.2	7285.6	6795.7	6461.9	6361.7	6312.1
67.5°	6681.0	6712.0	6803.0	7103.7	7616.2	8134.0	7703.1	7135.7	6762.7	6587.0	6589.0
70°	6280.0	6217.0	6436.1	6917.7	7659.7	8396.5	7758.9	6903.2	6446.4	6161.2	6229.4
72.5°	4852.9	4744.4	5124.7	5948.3	7163.6	8229.1	7213.2	5994.8	5361.3	4782.6	4926.3
75°	2640.4	2517.4	3042.4	4084.0	5712.7	7132.6	5843.9	4200.8	3387.5	2620.7	2791.2
77.5°	745.1	698.6	1122.3	1975.9	3436.1	5007.9	3568.4	2019.3	1331.0	789.5	877.4
80°	228.4	221.2	299.7	595.2	1459.2	2398.6	1402.3	602.5	381.3	240.8	254.2
82.5°	135.4	124.0	148.8	217.0	372.0	753.4	361.7	226.3	181.9	121.9	132.3
85°	77.5	72.3	87.8	105.4	125.0	160.2	104.4	107.5	97.1	65.1	68.2
87.5°	32.0	28.9	34.1	33.1	28.9	37.2	27.9	33.1	39.3	25.8	23.8
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)