

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: P883232

Luminaire Tested: **NAV-SB3C-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883232
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-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 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: 20592 lumens
Efficiency: N/A
Efficacy: 138.1 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

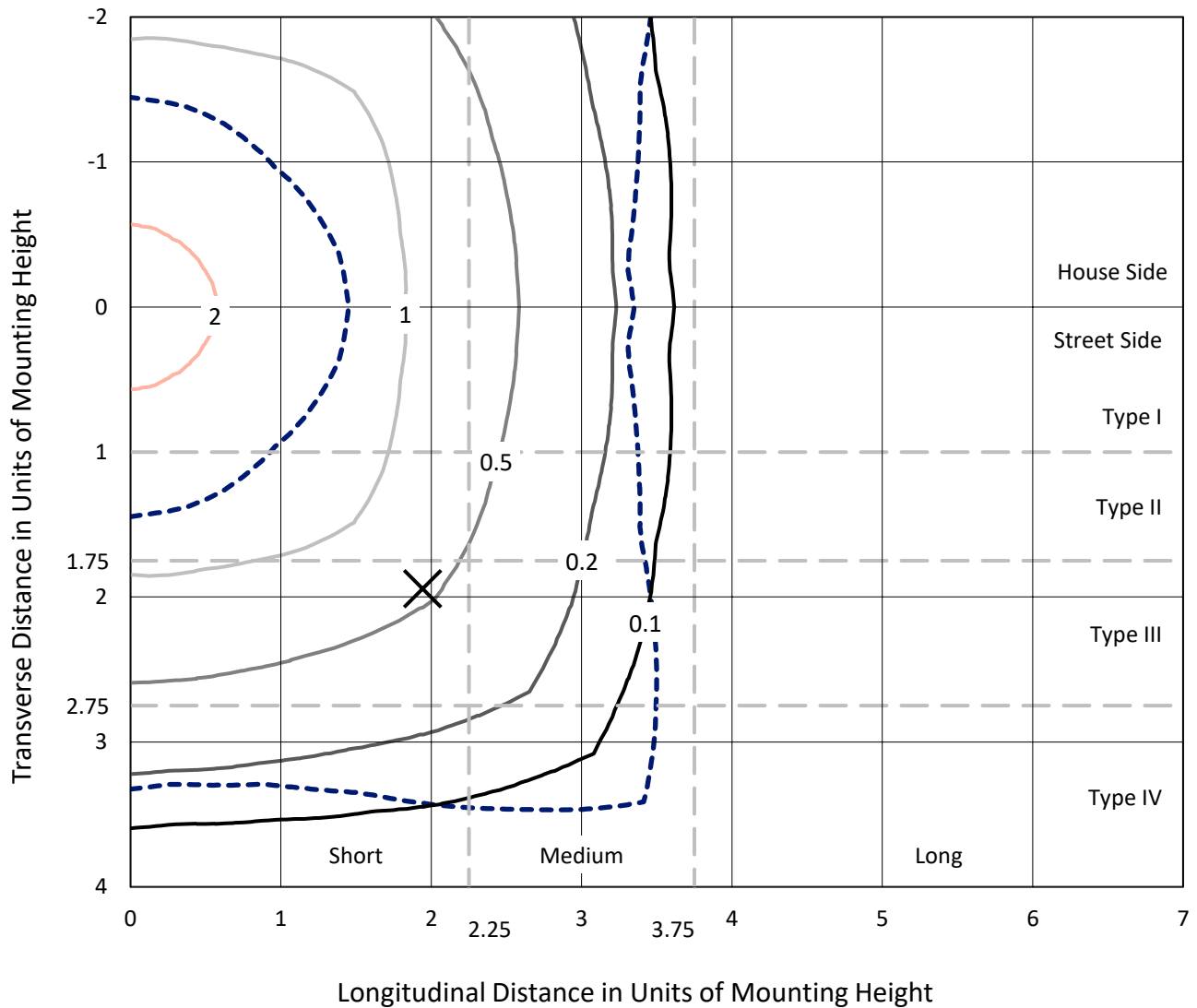
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

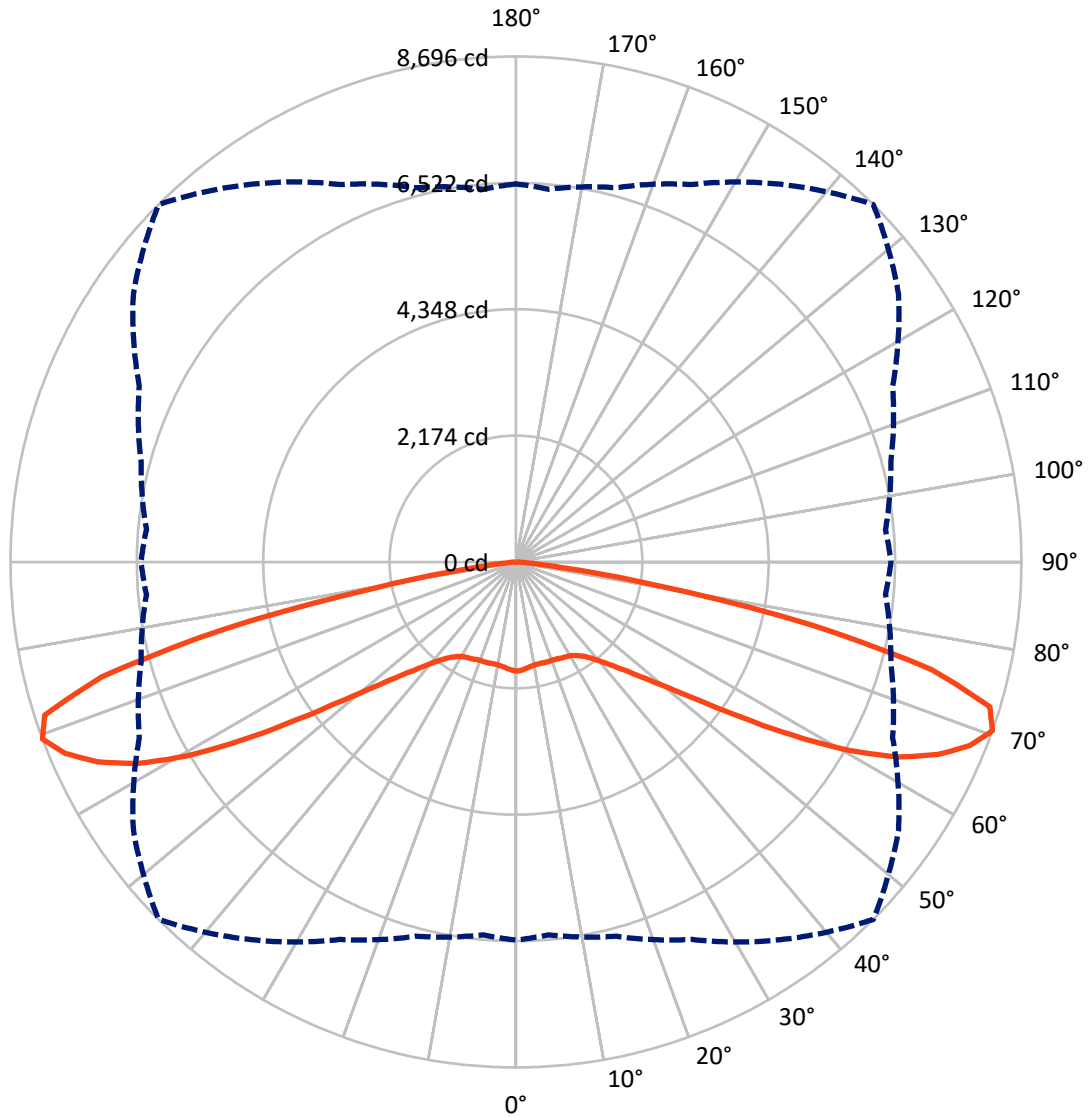
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	10296.0	0.0	10296.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10296.0	0.0	10296.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20592.0	0.0	20592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	0.8
10°-20°	513.1	2.5
20°-30°	853.8	4.1
30°-40°	1291.2	6.3
40°-50°	2145.7	10.4
50°-60°	4048.9	19.7
60°-70°	6836.7	33.2
70°-80°	4492.4	21.8
80°-90°	235.4	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°	20592.0	100.0
0°-180°	20592.0	100.0

Coefficient of Utilization



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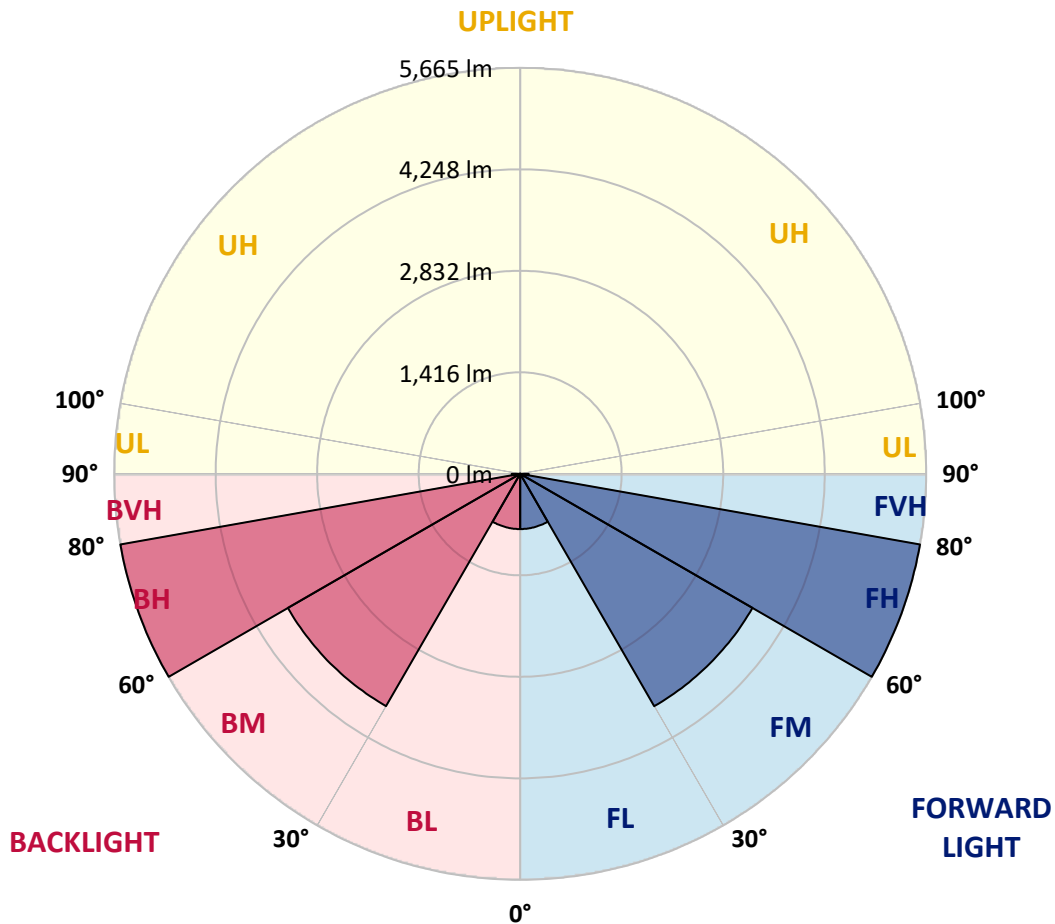
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.8	3.7			
FM (30°-60°)	3742.9	18.2			
FH (60°-80°)	5664.6	27.5			G3/7500
FVH (80°-90°)	117.7	0.6			G2/225
BL (0°-30°)	770.8	3.7	B2/1000		
BM (30°-60°)	3742.9	18.2	B3/5000		
BH (60°-80°)	5664.6	27.5	B5		G3/7500
BVH (80°-90°)	117.7	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°	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4
2.5°	1866.6	1872.0	1869.8	1865.6	1865.6	1862.4	1865.6	1867.7	1870.9	1873.1	1872.0
5°	1842.0	1846.3	1845.2	1842.0	1843.1	1839.9	1842.0	1845.2	1847.4	1848.4	1848.4
7.5°	1820.6	1824.9	1822.7	1817.4	1817.4	1814.2	1815.3	1818.5	1821.7	1822.7	1822.7
10°	1815.3	1819.5	1813.1	1804.6	1801.3	1797.1	1798.1	1801.3	1807.8	1811.0	1811.0
12.5°	1817.4	1820.6	1814.2	1801.3	1798.1	1793.9	1793.9	1797.1	1805.6	1809.9	1811.0
15°	1823.8	1827.0	1817.4	1803.5	1800.3	1797.1	1796.0	1800.3	1809.9	1817.4	1818.5
17.5°	1835.6	1838.8	1823.8	1804.6	1800.3	1801.3	1800.3	1803.5	1818.5	1832.4	1832.4
20°	1846.3	1848.4	1828.1	1804.6	1800.3	1801.3	1800.3	1806.7	1826.0	1845.2	1846.3
22.5°	1849.5	1851.6	1832.4	1812.0	1808.8	1809.9	1808.8	1815.3	1833.5	1852.7	1852.7
25°	1850.6	1853.8	1838.8	1822.7	1828.1	1830.2	1828.1	1829.2	1843.1	1860.2	1859.1
27.5°	1866.6	1870.9	1857.0	1843.1	1846.3	1845.2	1848.4	1851.6	1862.4	1879.5	1875.2
30°	1899.8	1903.0	1891.2	1877.3	1875.2	1867.7	1877.3	1888.0	1899.8	1914.8	1911.6
32.5°	1954.4	1960.8	1945.8	1930.9	1921.2	1916.9	1924.4	1942.6	1958.7	1974.7	1968.3
35°	2045.4	2049.7	2035.7	2007.9	1990.8	1990.8	1997.2	2020.8	2046.4	2066.8	2059.3
37.5°	2173.8	2179.2	2154.5	2121.4	2095.7	2095.7	2104.2	2128.9	2167.4	2196.3	2185.6
40°	2330.1	2337.6	2306.5	2272.3	2247.7	2243.4	2254.1	2281.9	2318.3	2354.7	2342.9
42.5°	2518.5	2527.0	2486.3	2456.4	2437.1	2437.1	2442.5	2468.1	2501.3	2546.3	2543.1
45°	2759.3	2774.3	2718.6	2688.6	2670.4	2674.7	2677.9	2700.4	2730.4	2781.8	2779.6
47.5°	3046.1	3061.1	3002.2	2971.2	2968.0	2988.3	2975.5	2991.5	3007.6	3066.5	3049.3
50°	3371.5	3397.2	3356.5	3354.4	3360.8	3398.3	3368.3	3376.8	3358.7	3396.1	3373.6
52.5°	3769.7	3807.1	3799.6	3812.5	3884.2	3961.2	3892.7	3862.8	3794.3	3806.0	3766.4
55°	4252.4	4309.1	4319.8	4396.9	4559.5	4716.9	4571.3	4450.4	4304.8	4278.1	4236.3
57.5°	4801.4	4846.4	4897.8	5055.1	5359.1	5638.4	5359.1	5091.5	4862.4	4807.9	4769.3
60°	5392.3	5447.9	5497.1	5729.4	6181.1	6573.9	6172.5	5747.6	5444.7	5370.8	5306.6
62.5°	6027.0	6098.7	6132.9	6390.9	6917.5	7386.3	6924.9	6410.1	6074.0	5994.8	5930.6
65°	6636.0	6694.8	6733.4	7008.4	7511.5	7981.3	7545.7	7038.4	6692.7	6588.9	6537.5
67.5°	6919.6	6951.7	7045.9	7357.4	7888.2	8424.5	7978.1	7390.5	7004.1	6822.2	6824.3
70°	6504.3	6439.0	6665.9	7164.7	7933.2	8696.3	8035.9	7149.7	6676.6	6381.2	6451.9
72.5°	5026.2	4913.8	5307.7	6160.7	7419.4	8522.9	7470.8	6208.9	5552.8	4953.4	5102.2
75°	2734.7	2607.3	3151.0	4229.9	5916.7	7387.3	6052.6	4350.8	3508.5	2714.3	2890.9
77.5°	771.7	723.5	1162.4	2046.4	3558.8	5186.8	3695.8	2091.4	1378.6	817.7	908.7
80°	236.5	229.0	310.4	616.5	1511.3	2484.2	1452.4	624.0	394.9	249.4	263.3
82.5°	140.2	128.4	154.1	224.8	385.3	780.3	374.6	234.4	188.4	126.3	137.0
85°	80.3	74.9	91.0	109.2	129.5	165.9	108.1	111.3	100.6	67.4	70.6
87.5°	33.2	30.0	35.3	34.3	30.0	38.5	28.9	34.3	40.7	26.8	24.6
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)