

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: P883312

Luminaire Tested: **NAV-SB3C-835-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883312  
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-835-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

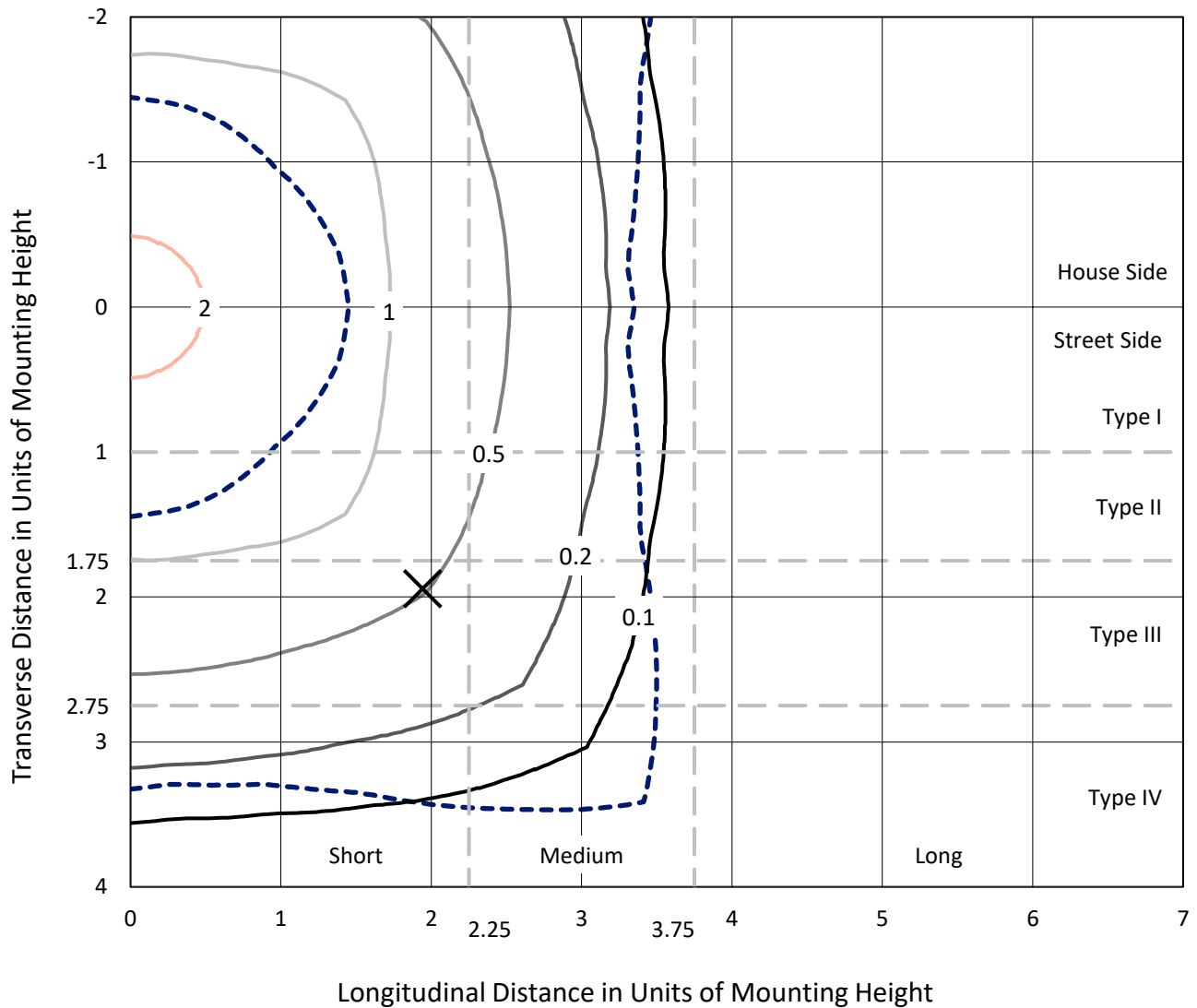
Lumens per Lamp: N/A  
Luminaire Lumens: 19172 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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

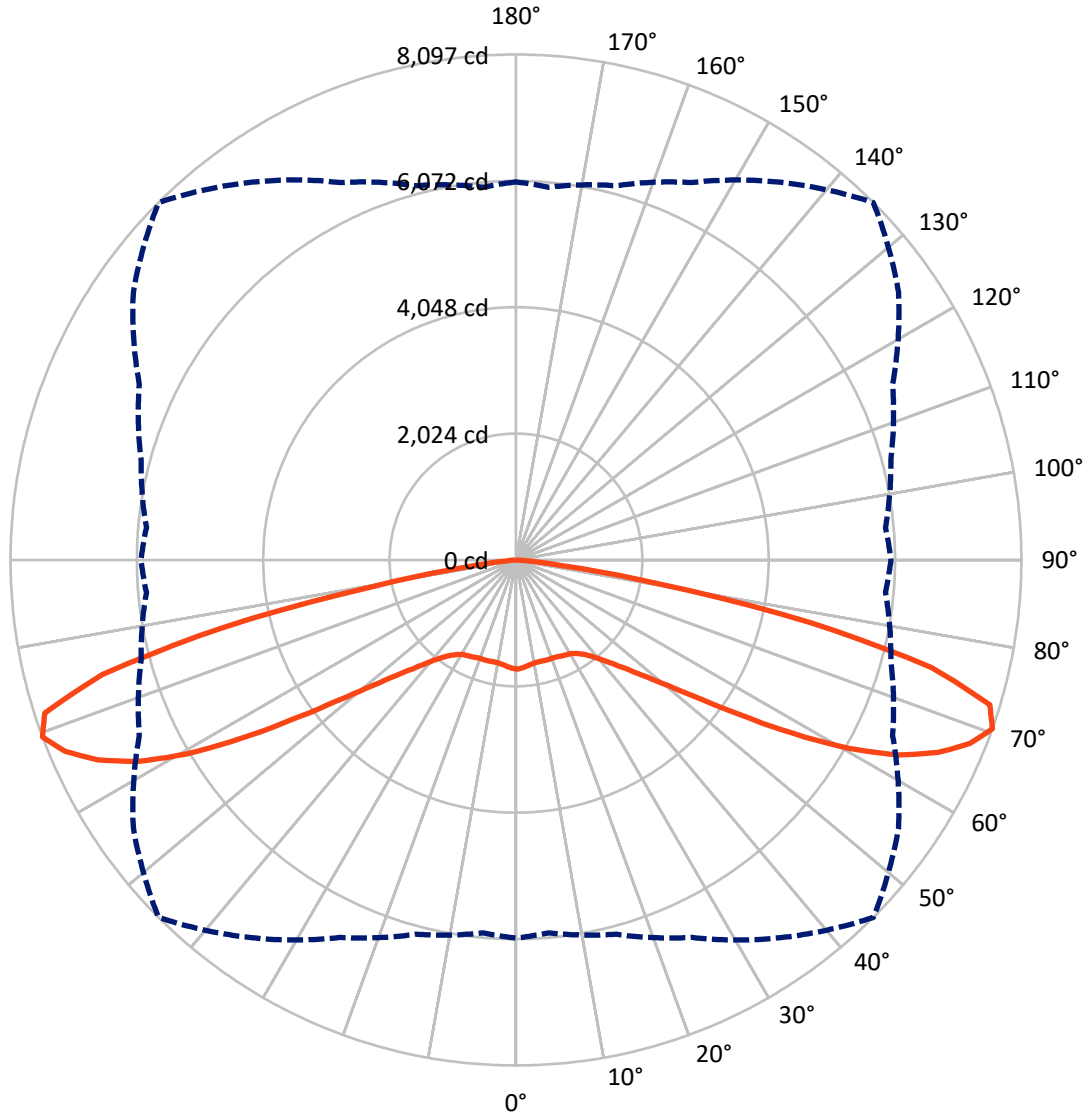
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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
<b>House Side</b>	Lumens	9586.0	0.0	9586.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9586.0	0.0	9586.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19172.0	0.0	19172.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.7	0.8
10°-20°	477.7	2.5
20°-30°	794.9	4.1
30°-40°	1202.2	6.3
40°-50°	1997.8	10.4
50°-60°	3769.7	19.7
60°-70°	6365.3	33.2
70°-80°	4182.6	21.8
80°-90°	219.1	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°	19172.0	100.0
0°-180°	19172.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P883312

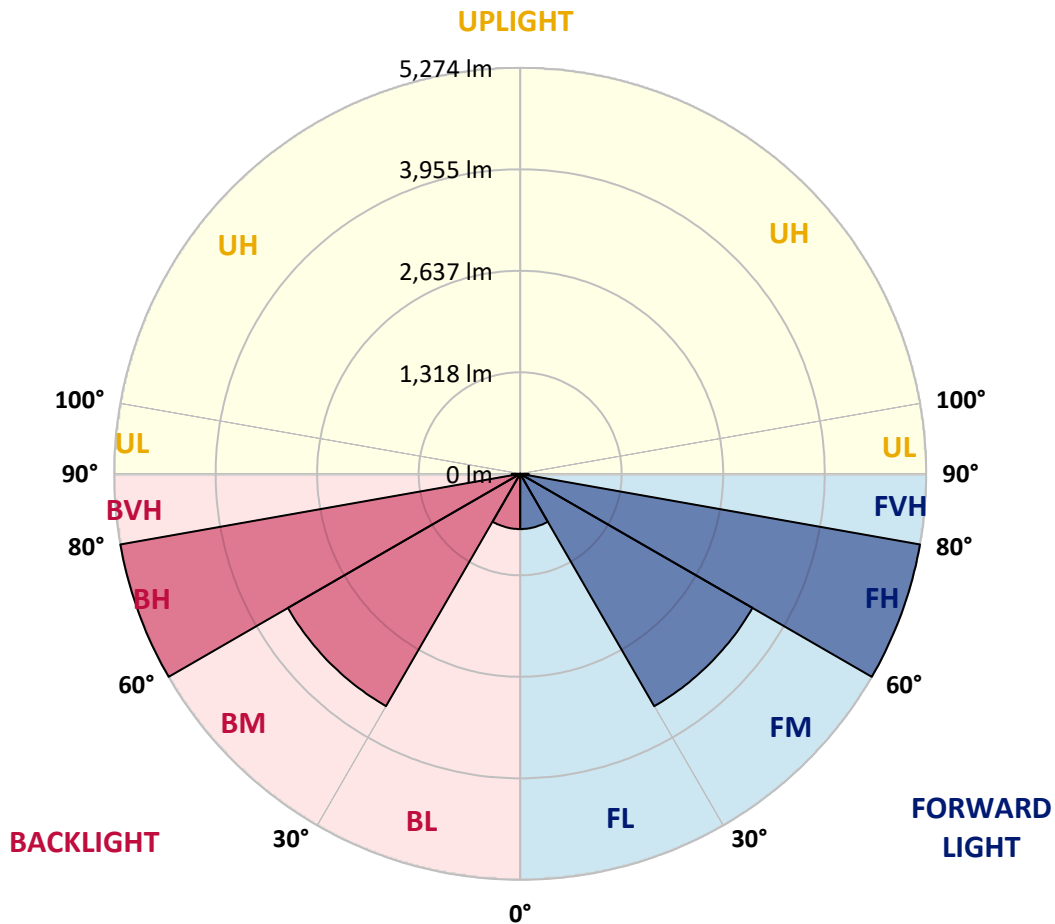
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.7	3.7			
FM (30°-60°)	3484.8	18.2			
FH (60°-80°)	5274.0	27.5			G3/7500
FVH (80°-90°)	109.6	0.6			G2/225
BL (0°-30°)	717.7	3.7	B2/1000		
BM (30°-60°)	3484.8	18.2	B3/5000		
BH (60°-80°)	5274.0	27.5	B5		G3/7500
BVH (80°-90°)	109.6	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°	1748.9	1748.9	1748.9	1748.9	1748.9	1748.9	1748.9	1748.9	1748.9	1748.9	1748.9
2.5°	1737.9	1742.9	1740.9	1736.9	1736.9	1733.9	1736.9	1738.9	1741.9	1743.9	1742.9
5°	1715.0	1719.0	1718.0	1715.0	1716.0	1713.0	1715.0	1718.0	1720.0	1721.0	1721.0
7.5°	1695.1	1699.0	1697.1	1692.1	1692.1	1689.1	1690.1	1693.1	1696.1	1697.1	1697.1
10°	1690.1	1694.1	1688.1	1680.1	1677.1	1673.1	1674.1	1677.1	1683.1	1686.1	1686.1
12.5°	1692.1	1695.1	1689.1	1677.1	1674.1	1670.1	1670.1	1673.1	1681.1	1685.1	1686.1
15°	1698.1	1701.0	1692.1	1679.1	1676.1	1673.1	1672.1	1676.1	1685.1	1692.1	1693.1
17.5°	1709.0	1712.0	1698.1	1680.1	1676.1	1677.1	1676.1	1679.1	1693.1	1706.0	1706.0
20°	1719.0	1721.0	1702.0	1680.1	1676.1	1677.1	1676.1	1682.1	1700.0	1718.0	1719.0
22.5°	1722.0	1724.0	1706.0	1687.1	1684.1	1685.1	1684.1	1690.1	1707.0	1725.0	1725.0
25°	1723.0	1726.0	1712.0	1697.1	1702.0	1704.0	1702.0	1703.0	1716.0	1731.9	1730.9
27.5°	1737.9	1741.9	1728.9	1716.0	1719.0	1718.0	1721.0	1724.0	1733.9	1749.9	1745.9
30°	1768.8	1771.8	1760.8	1747.9	1745.9	1738.9	1747.9	1757.8	1768.8	1782.8	1779.8
32.5°	1819.6	1825.6	1811.7	1797.7	1788.7	1784.7	1791.7	1808.7	1823.6	1838.6	1832.6
35°	1904.3	1908.3	1895.4	1869.4	1853.5	1853.5	1859.5	1881.4	1905.3	1924.3	1917.3
37.5°	2023.9	2028.9	2006.0	1975.1	1951.2	1951.2	1959.1	1982.1	2017.9	2044.8	2034.9
40°	2169.4	2176.4	2147.5	2115.6	2092.7	2088.7	2098.6	2124.6	2158.4	2192.3	2181.4
42.5°	2344.8	2352.8	2314.9	2287.0	2269.0	2269.0	2274.0	2297.9	2328.8	2370.7	2367.7
45°	2569.0	2583.0	2531.1	2503.2	2486.3	2490.3	2493.3	2514.2	2542.1	2589.9	2587.9
47.5°	2836.1	2850.0	2795.2	2766.3	2763.3	2782.3	2770.3	2785.2	2800.2	2855.0	2839.1
50°	3139.0	3162.9	3125.1	3123.1	3129.0	3163.9	3136.0	3144.0	3127.0	3161.9	3141.0
52.5°	3509.7	3544.6	3537.6	3549.6	3616.3	3688.1	3624.3	3596.4	3532.6	3543.6	3506.7
55°	3959.1	4011.9	4021.9	4093.7	4245.1	4391.6	4256.1	4143.5	4008.0	3983.0	3944.2
57.5°	4470.3	4512.2	4560.0	4706.5	4989.5	5249.6	4989.5	4740.4	4527.1	4476.3	4440.4
60°	5020.4	5072.2	5118.1	5334.3	5754.8	6120.6	5746.9	5351.3	5069.2	5000.5	4940.7
62.5°	5611.3	5678.1	5710.0	5950.2	6440.4	6876.9	6447.4	5968.1	5655.2	5581.4	5521.7
65°	6178.4	6233.2	6269.0	6525.1	6993.5	7431.0	7025.4	6553.0	6231.2	6134.5	6086.7
67.5°	6442.4	6472.3	6560.0	6850.0	7344.3	7843.5	7428.0	6880.9	6521.2	6351.7	6353.7
70°	6055.8	5995.0	6206.3	6670.6	7386.1	8096.6	7481.8	6656.7	6216.2	5941.2	6007.0
72.5°	4679.6	4575.0	4941.7	5735.9	6907.8	7935.2	6955.6	5780.7	5169.9	4611.8	4750.4
75°	2546.1	2427.5	2933.7	3938.2	5508.7	6877.9	5635.3	4050.8	3266.6	2527.1	2691.6
77.5°	718.5	673.6	1082.2	1905.3	3313.4	4829.1	3440.9	1947.2	1283.5	761.3	846.0
80°	220.2	213.3	289.0	574.0	1407.1	2312.9	1352.3	581.0	367.7	232.2	245.1
82.5°	130.5	119.6	143.5	209.3	358.7	726.5	348.8	218.2	175.4	117.6	127.6
85°	74.7	69.8	84.7	101.6	120.6	154.5	100.6	103.6	93.7	62.8	65.8
87.5°	30.9	27.9	32.9	31.9	27.9	35.9	26.9	31.9	37.9	24.9	22.9
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)