

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: P882975

Luminaire Tested: **NAV-SB3A-835-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3A-835-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

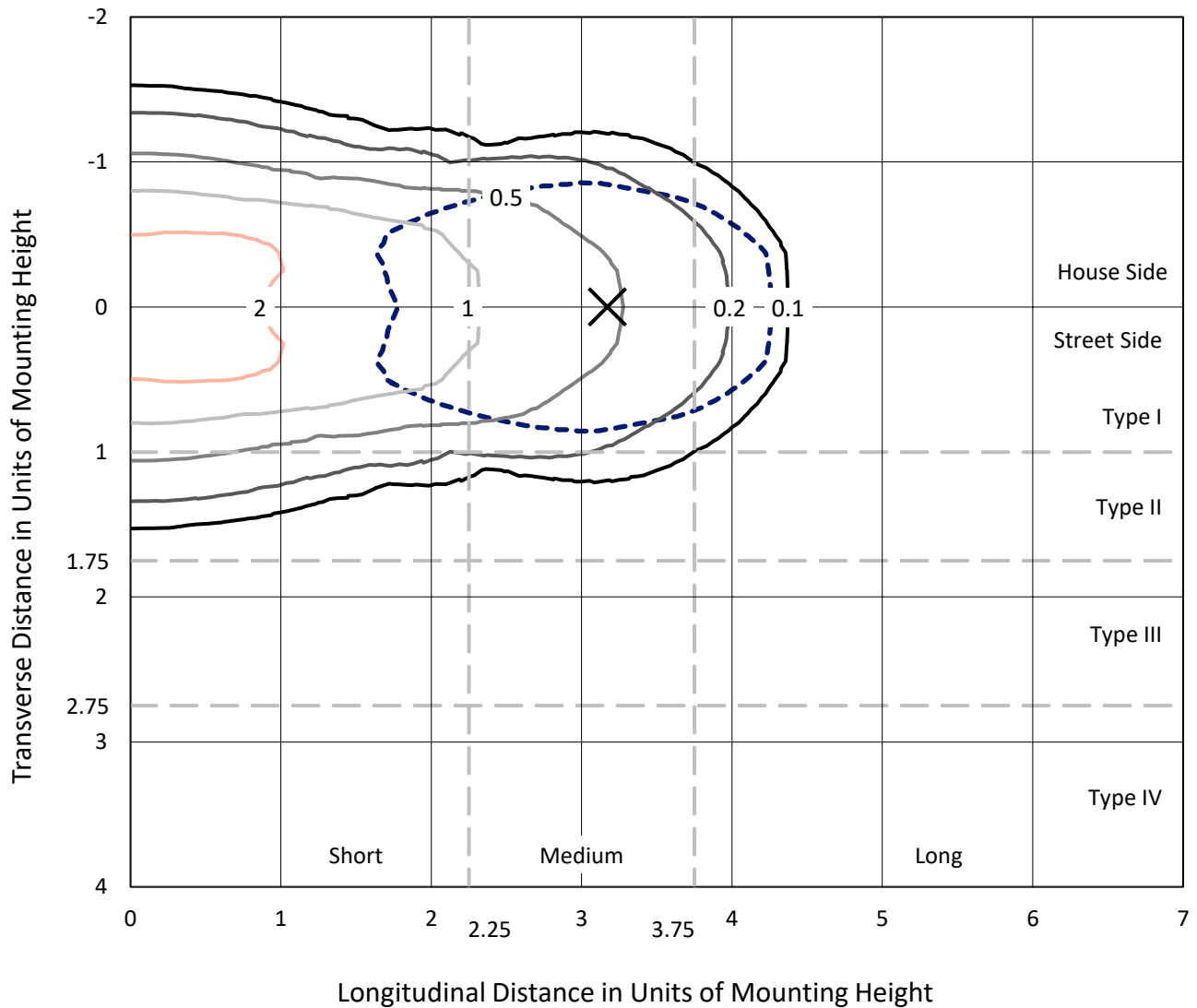
Lumens per Lamp: N/A  
Luminaire Lumens: 11231 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): 120.0  
Input Current (Ain): 0.717  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

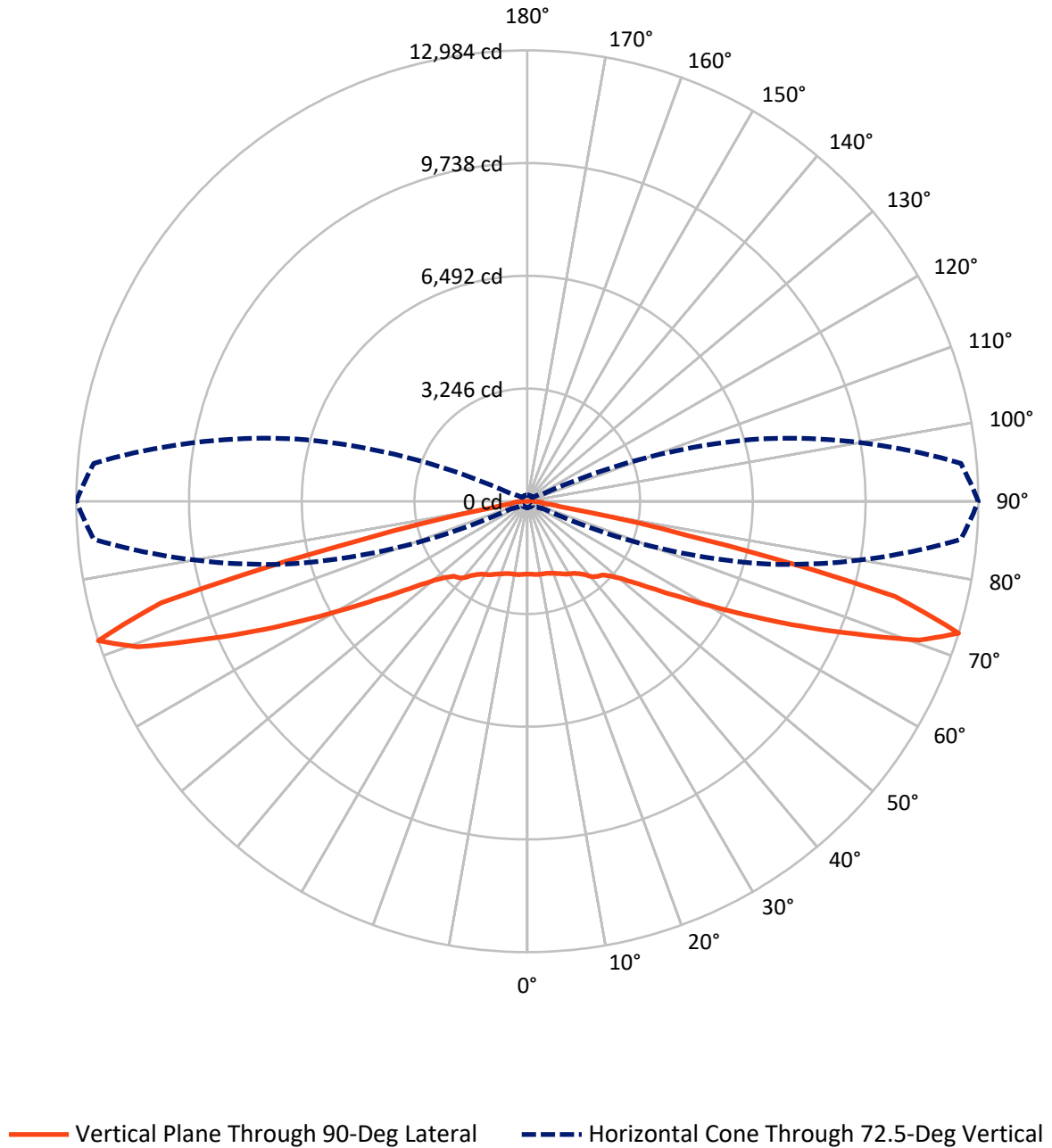
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5615.5	0.0	5615.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5615.5	0.0	5615.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11231.0	0.0	11231.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.5	1.8
10°-20°	622.2	5.5
20°-30°	1037.4	9.2
30°-40°	1426.8	12.7
40°-50°	1742.5	15.5
50°-60°	2015.4	17.9
60°-70°	2403.0	21.4
70°-80°	1677.2	14.9
80°-90°	103.0	0.9
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°	11231.0	100.0
0°-180°	11231.0	100.0



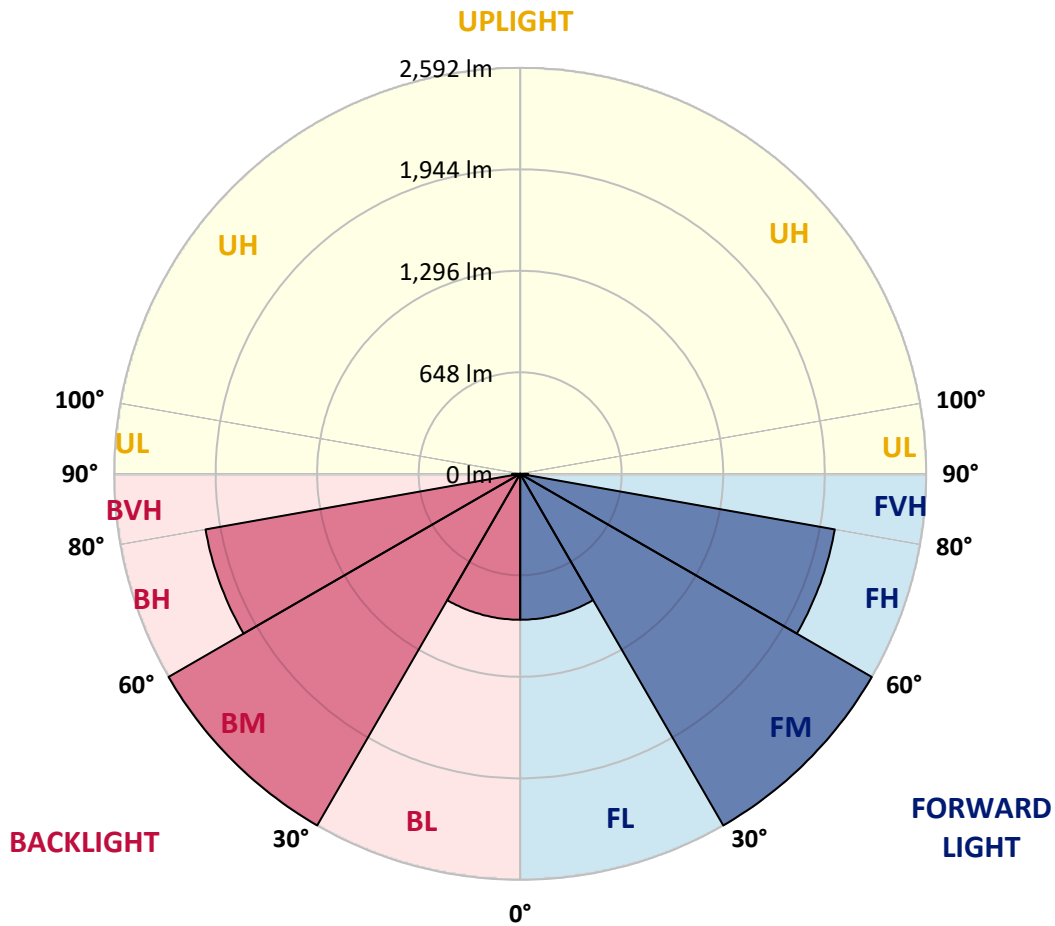
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	931.6	8.3			
FM (30°-60°)	2592.3	23.1			
FH (60°-80°)	2040.1	18.2			G2/5000
FVH (80°-90°)	51.5	0.5			G1/100
BL (0°-30°)	931.6	8.3	B2/1000		
BM (30°-60°)	2592.3	23.1	B3/5000		
BH (60°-80°)	2040.1	18.2	B3/2500		G3/2500
BVH (80°-90°)	51.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6
2.5°	2100.4	2102.8	2102.8	2101.0	2105.2	2101.6	2101.6	2099.8	2101.6	2099.8	2099.8
5°	2111.2	2114.1	2115.3	2114.7	2120.1	2117.1	2117.1	2114.7	2115.3	2113.6	2113.6
7.5°	2131.5	2135.6	2138.0	2141.0	2148.8	2145.2	2142.8	2135.6	2132.7	2127.9	2127.9
10°	2138.0	2142.8	2150.6	2166.1	2184.0	2184.6	2177.4	2159.5	2145.8	2135.0	2133.2
12.5°	2117.7	2124.3	2140.4	2172.0	2212.0	2228.2	2216.8	2187.0	2160.1	2141.0	2138.0
15°	2092.1	2099.2	2123.7	2171.5	2230.5	2268.1	2267.0	2227.6	2184.6	2154.7	2150.0
17.5°	2052.1	2059.2	2094.5	2161.3	2244.9	2306.9	2323.7	2283.1	2222.8	2182.8	2176.2
20°	1979.9	1986.4	2035.4	2129.1	2249.6	2348.1	2391.7	2355.9	2280.7	2226.4	2216.2
22.5°	1886.1	1896.3	1953.6	2073.6	2238.3	2391.1	2469.3	2444.8	2348.1	2272.9	2259.2
25°	1785.9	1796.6	1863.5	2005.5	2209.1	2422.1	2561.2	2545.7	2424.5	2330.8	2311.7
27.5°	1699.3	1710.7	1783.5	1938.1	2163.7	2434.1	2651.9	2659.7	2517.0	2394.7	2374.4
30°	1631.3	1642.0	1719.6	1883.8	2105.2	2422.1	2731.3	2785.0	2611.4	2450.2	2420.9
32.5°	1556.7	1570.4	1652.2	1817.5	2036.0	2393.5	2800.6	2920.5	2720.6	2509.9	2472.9
35°	1462.4	1474.9	1560.8	1726.8	1945.2	2347.5	2858.5	3070.9	2877.0	2600.6	2559.4
37.5°	1347.8	1359.7	1445.0	1613.4	1855.1	2283.1	2902.6	3240.5	3063.2	2731.3	2676.4
40°	1232.6	1243.9	1323.9	1486.8	1747.1	2200.7	2918.1	3406.4	3276.9	2911.0	2852.5
42.5°	1126.9	1137.1	1210.5	1362.1	1625.9	2095.6	2897.9	3550.8	3468.5	3036.3	2961.1
45°	1029.6	1038.6	1103.6	1245.1	1500.0	1967.9	2837.0	3706.0	3696.5	3125.9	3024.4
47.5°	918.6	927.6	995.0	1131.7	1374.0	1818.1	2733.7	3858.8	4013.4	3328.8	3211.8
50°	783.1	790.9	860.1	1001.0	1243.3	1658.7	2590.5	3978.8	4413.3	3636.2	3489.4
52.5°	622.5	630.9	698.3	839.2	1088.1	1487.4	2401.8	4057.0	4875.3	4085.0	3904.2
55°	463.2	469.1	527.6	654.2	895.9	1292.2	2165.5	4079.1	5399.4	4698.6	4472.4
57.5°	336.0	339.6	377.2	471.5	679.2	1048.1	1878.4	4021.8	6023.1	5485.3	5200.6
60°	272.2	273.4	284.7	326.5	472.1	772.4	1531.6	3824.8	6700.0	6499.4	6140.7
62.5°	247.1	247.1	250.1	261.4	319.3	509.7	1112.0	3416.5	7425.8	7780.9	7300.4
65°	229.8	229.8	231.0	236.4	251.9	324.7	701.9	2751.6	8037.6	9282.1	8674.5
67.5°	214.3	214.9	214.3	216.1	225.0	239.9	407.1	1900.5	8367.1	10837.6	10181.6
70°	198.2	199.4	196.4	196.4	203.5	204.1	254.9	1042.2	8093.7	12141.1	11968.6
72.5°	179.1	180.9	176.1	174.9	180.3	177.9	191.6	500.2	6948.9	12530.3	12983.9
75°	162.4	164.7	154.0	151.0	151.0	149.2	155.8	256.7	4510.0	10221.6	10933.1
77.5°	147.4	152.2	134.9	125.3	123.0	117.6	127.1	157.0	1972.7	4798.9	4699.2
80°	121.8	128.3	111.0	99.7	95.5	89.5	100.3	109.8	586.7	1114.4	1067.2
82.5°	90.7	93.7	78.8	71.0	67.4	63.3	75.2	76.4	191.0	394.5	445.9
85°	57.9	59.1	48.3	41.8	40.0	38.2	47.8	41.8	72.8	290.1	421.4
87.5°	20.3	23.3	18.5	16.7	17.9	14.9	22.1	12.5	20.3	204.7	253.7
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)