

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: P882965

Luminaire Tested: **NAV-SB3A-830-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882965
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-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11647 lumens
Efficiency: N/A
Efficacy: 137.5 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

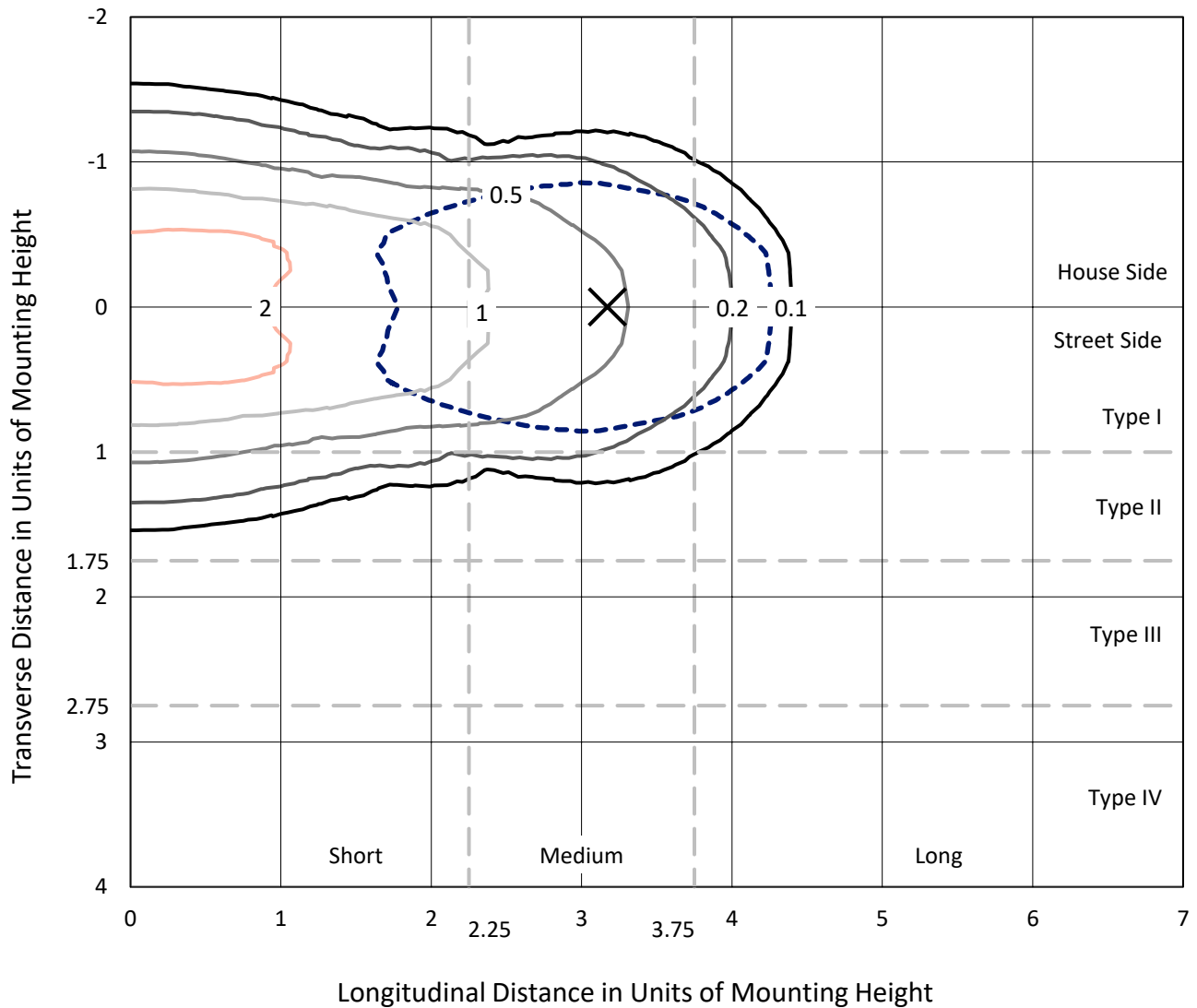
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

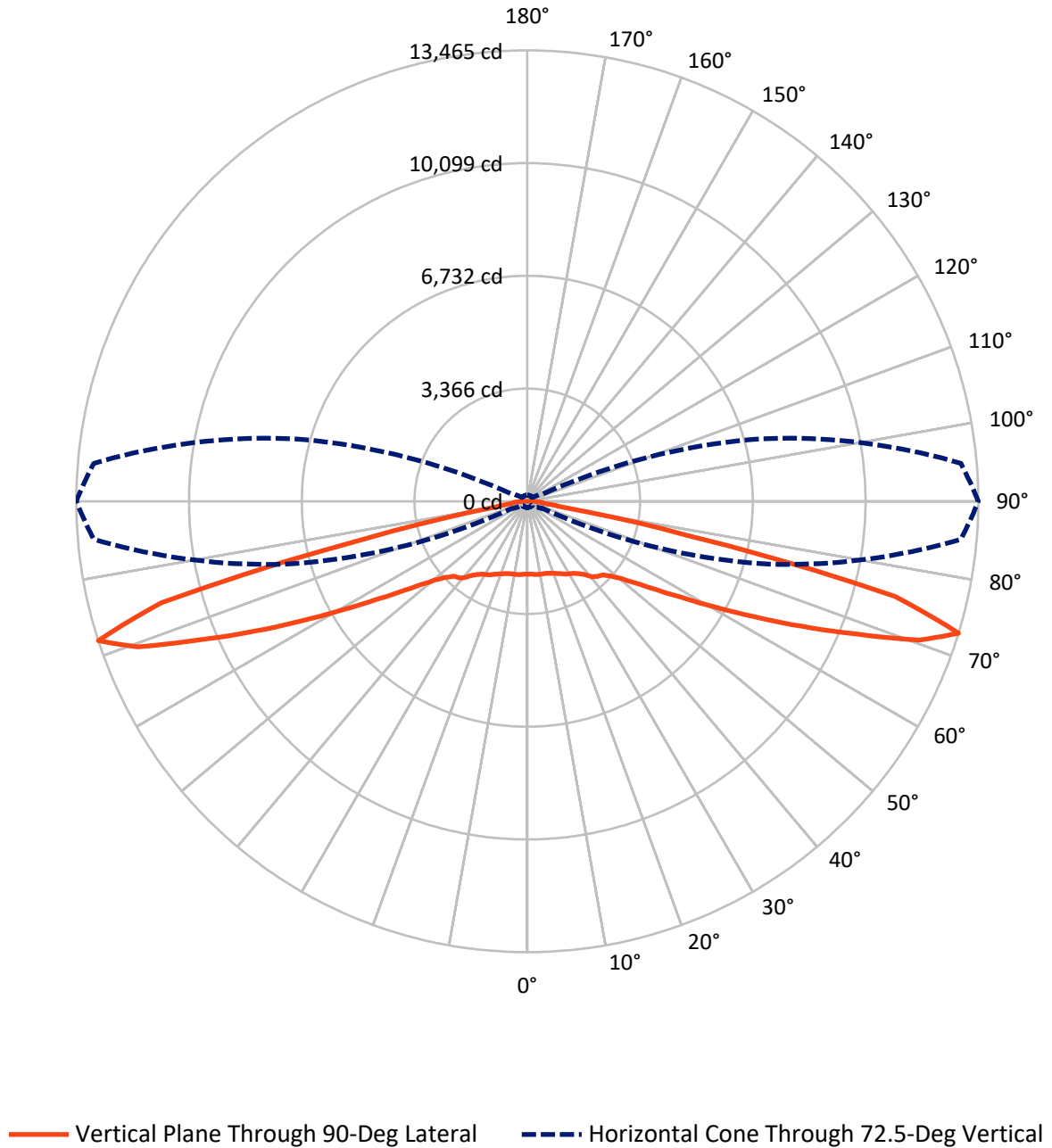
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5823.5	0.0	5823.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5823.5	0.0	5823.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11647.0	0.0	11647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	1.8
10°-20°	645.2	5.5
20°-30°	1075.9	9.2
30°-40°	1479.6	12.7
40°-50°	1807.1	15.5
50°-60°	2090.0	17.9
60°-70°	2492.0	21.4
70°-80°	1739.3	14.9
80°-90°	106.8	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°	11647.0	100.0
0°-180°	11647.0	100.0

Coefficient of Utilization



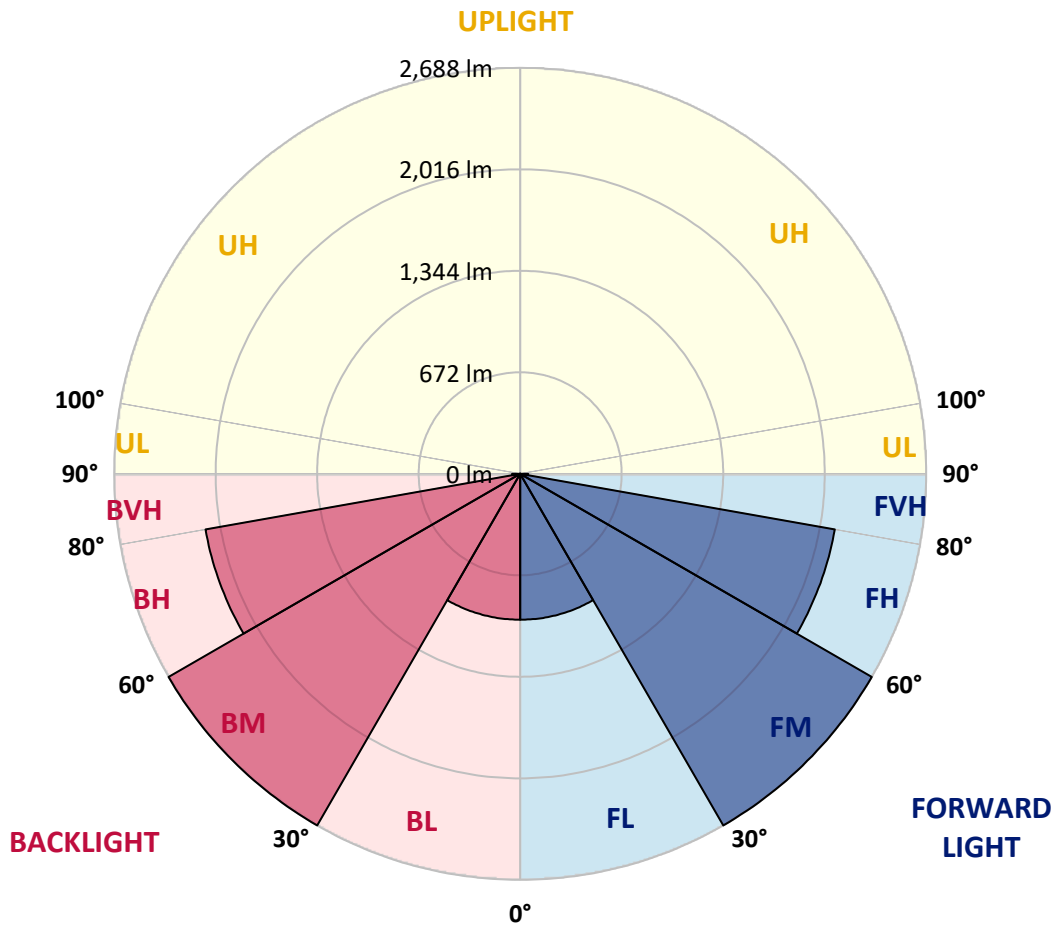
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	966.1	8.3			
FM (30°-60°)	2688.4	23.1			
FH (60°-80°)	2115.7	18.2			G2/5000
FVH (80°-90°)	53.4	0.5			G1/100
BL (0°-30°)	966.1	8.3	B2/1000		
BM (30°-60°)	2688.4	23.1	B3/5000		
BH (60°-80°)	2115.7	18.2	B3/2500		G3/2500
BVH (80°-90°)	53.4	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°	2176.4	2176.4	2176.4	2176.4	2176.4	2176.4	2176.4	2176.4	2176.4	2176.4	2176.4
2.5°	2178.2	2180.7	2180.7	2178.8	2183.2	2179.5	2179.5	2177.6	2179.5	2177.6	2177.6
5°	2189.4	2192.5	2193.7	2193.1	2198.6	2195.6	2195.6	2193.1	2193.7	2191.8	2191.8
7.5°	2210.4	2214.7	2217.2	2220.3	2228.4	2224.6	2222.2	2214.7	2211.6	2206.7	2206.7
10°	2217.2	2222.2	2230.2	2246.3	2264.9	2265.5	2258.1	2239.5	2225.3	2214.1	2212.3
12.5°	2196.2	2203.0	2219.7	2252.5	2294.0	2310.7	2298.9	2268.0	2240.1	2220.3	2217.2
15°	2169.6	2177.0	2202.4	2251.9	2313.2	2352.2	2350.9	2310.1	2265.5	2234.5	2229.6
17.5°	2128.1	2135.5	2172.0	2241.4	2328.0	2392.4	2409.7	2367.6	2305.1	2263.6	2256.8
20°	2053.2	2060.0	2110.8	2207.9	2333.0	2435.1	2480.3	2443.1	2365.2	2308.8	2298.3
22.5°	1956.0	1966.5	2026.0	2150.4	2321.2	2479.7	2560.8	2535.4	2435.1	2357.1	2342.9
25°	1852.0	1863.2	1932.5	2079.8	2290.9	2511.9	2656.1	2640.0	2514.3	2417.2	2397.3
27.5°	1762.3	1774.0	1849.5	2009.9	2243.8	2524.2	2750.2	2758.2	2610.3	2483.4	2462.3
30°	1691.7	1702.8	1783.3	1953.5	2183.2	2511.9	2832.5	2888.2	2708.1	2540.9	2510.6
32.5°	1614.3	1628.6	1713.4	1884.8	2111.4	2482.1	2904.3	3028.7	2821.4	2602.8	2564.5
35°	1516.5	1529.5	1618.7	1790.7	2017.3	2434.5	2964.3	3184.7	2983.5	2696.9	2654.2
37.5°	1397.7	1410.1	1498.6	1673.1	1923.8	2367.6	3010.1	3360.5	3176.7	2832.5	2775.5
40°	1278.2	1290.0	1372.9	1541.9	1811.8	2282.2	3026.2	3532.6	3398.2	3018.8	2958.1
42.5°	1168.7	1179.2	1255.3	1412.5	1686.1	2173.3	3005.2	3682.4	3596.9	3148.8	3070.8
45°	1067.8	1077.0	1144.5	1291.2	1555.5	2040.8	2942.1	3843.3	3833.4	3241.6	3136.4
47.5°	952.6	961.9	1031.9	1173.6	1424.9	1885.4	2835.0	4001.8	4162.1	3452.1	3330.8
50°	812.1	820.2	892.0	1038.0	1289.4	1720.2	2686.4	4126.2	4576.8	3770.9	3618.6
52.5°	645.6	654.3	724.2	870.3	1128.4	1542.5	2490.8	4207.3	5055.9	4236.4	4048.8
55°	480.3	486.5	547.2	678.4	929.1	1340.1	2245.7	4230.2	5599.4	4872.7	4638.1
57.5°	348.5	352.2	391.2	489.0	704.4	1086.9	1948.0	4170.7	6246.2	5688.5	5393.3
60°	282.3	283.5	295.3	338.6	489.6	801.0	1588.3	3966.5	6948.2	6740.2	6368.2
62.5°	256.3	256.3	259.4	271.1	331.2	528.6	1153.2	3543.1	7700.8	8069.1	7570.9
65°	238.3	238.3	239.5	245.1	261.2	336.7	727.9	2853.5	8335.3	9625.9	8995.8
67.5°	222.2	222.8	222.2	224.1	233.4	248.8	422.2	1970.9	8677.0	11239.0	10558.7
70°	205.5	206.7	203.6	203.6	211.1	211.7	264.3	1080.8	8393.5	12590.9	12412.0
72.5°	185.7	187.6	182.6	181.4	186.9	184.5	198.7	518.7	7206.3	12994.4	13464.9
75°	168.4	170.8	159.7	156.6	156.6	154.7	161.6	266.2	4677.1	10600.2	11338.0
77.5°	152.9	157.8	139.9	130.0	127.5	121.9	131.8	162.8	2045.8	4976.7	4873.3
80°	126.3	133.1	115.1	103.4	99.0	92.8	104.0	113.9	608.5	1155.7	1106.8
82.5°	94.1	97.2	81.7	73.7	69.9	65.6	78.0	79.2	198.1	409.2	462.4
85°	60.0	61.3	50.1	43.3	41.5	39.6	49.5	43.3	75.5	300.8	437.0
87.5°	21.0	24.1	19.2	17.3	18.6	15.5	22.9	13.0	21.0	212.3	263.1
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)