

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: P882615

Luminaire Tested: **NAV-SB2C-827-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882615
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-SB2C-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12268 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

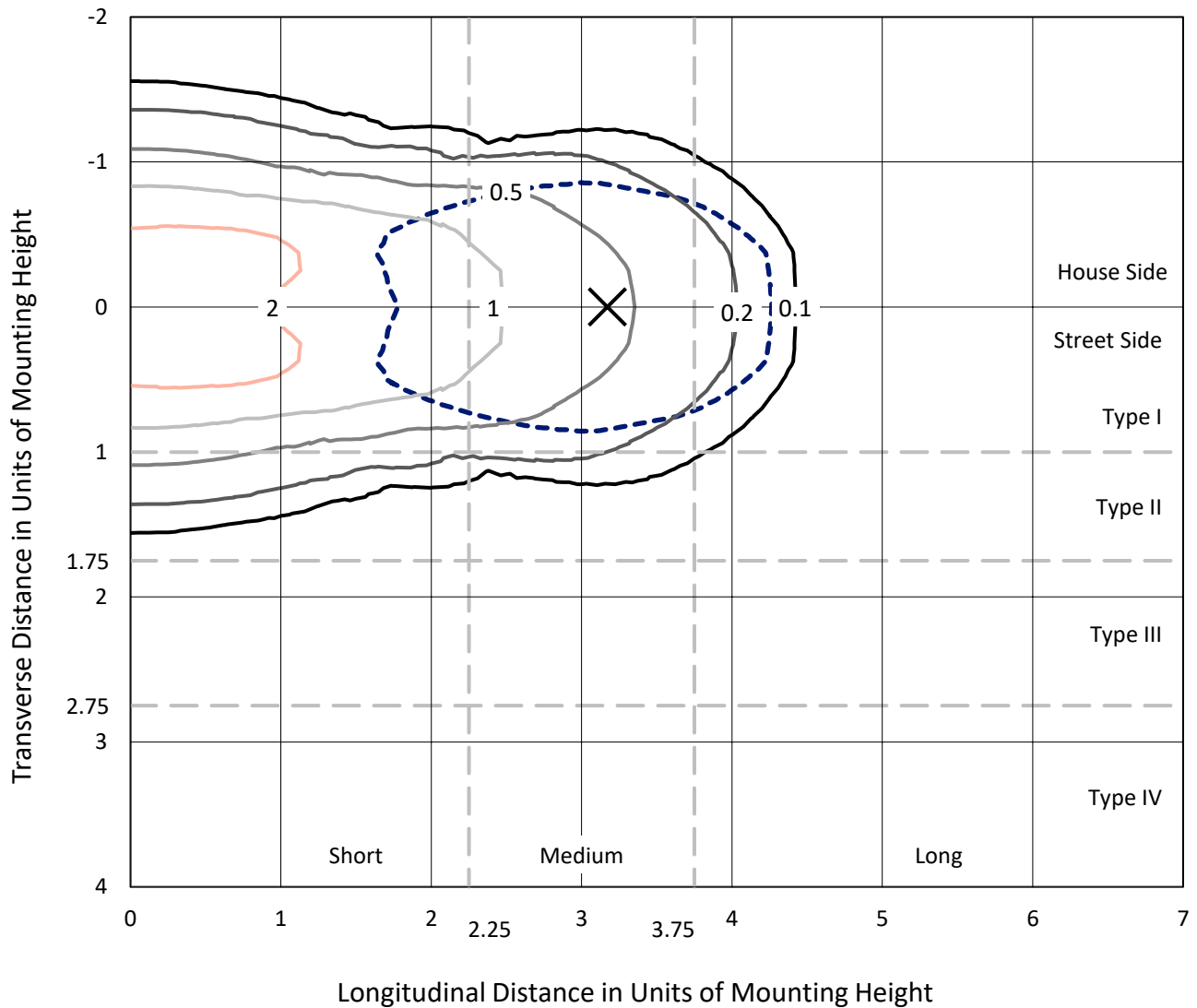
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

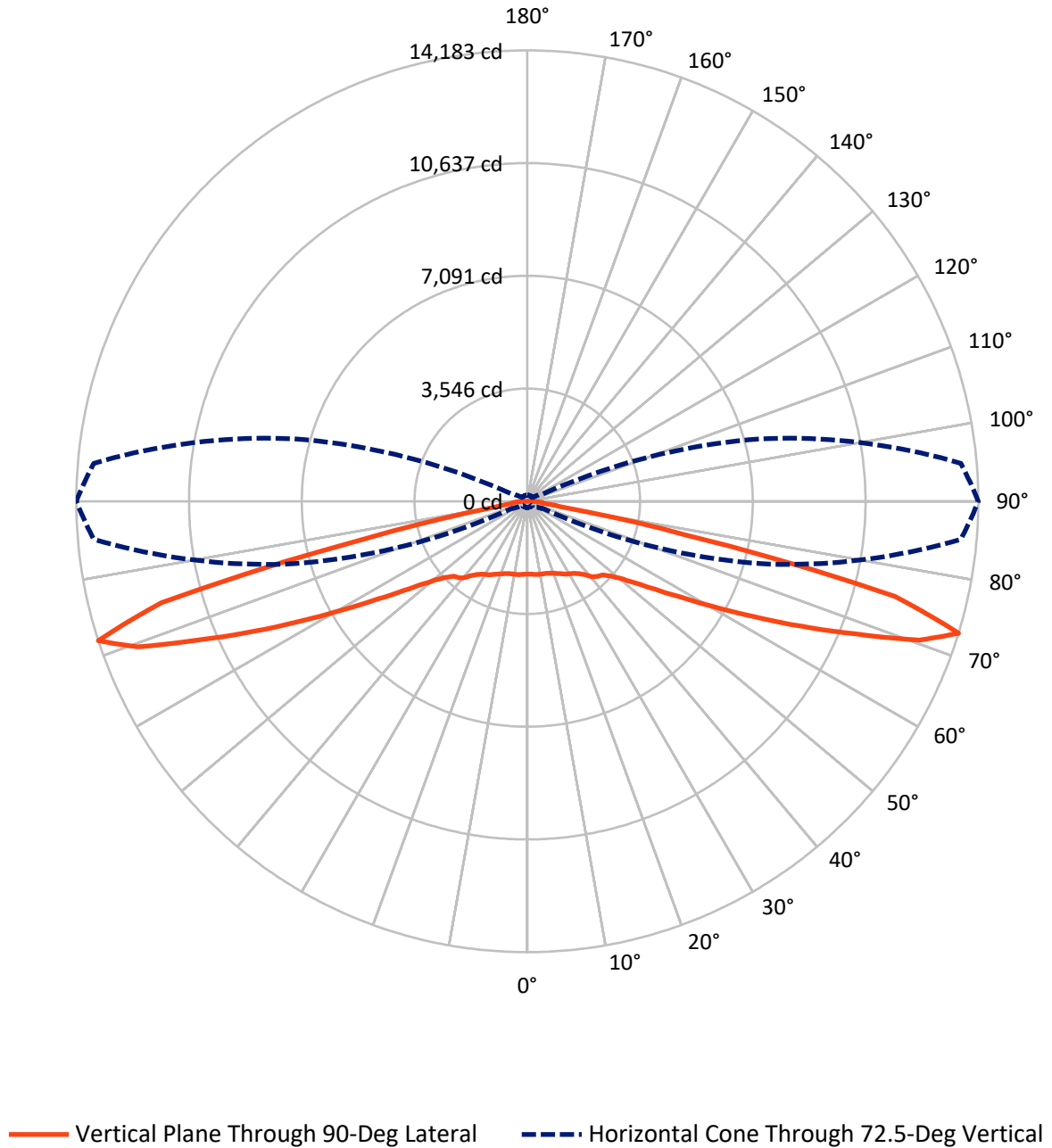
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	6134.0	0.0	6134.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6134.0	0.0	6134.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12268.0	0.0	12268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	1.8
10°-20°	679.6	5.5
20°-30°	1133.2	9.2
30°-40°	1558.5	12.7
40°-50°	1903.4	15.5
50°-60°	2201.5	17.9
60°-70°	2624.9	21.4
70°-80°	1832.0	14.9
80°-90°	112.5	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°	12268.0	100.0
0°-180°	12268.0	100.0

Coefficient of Utilization



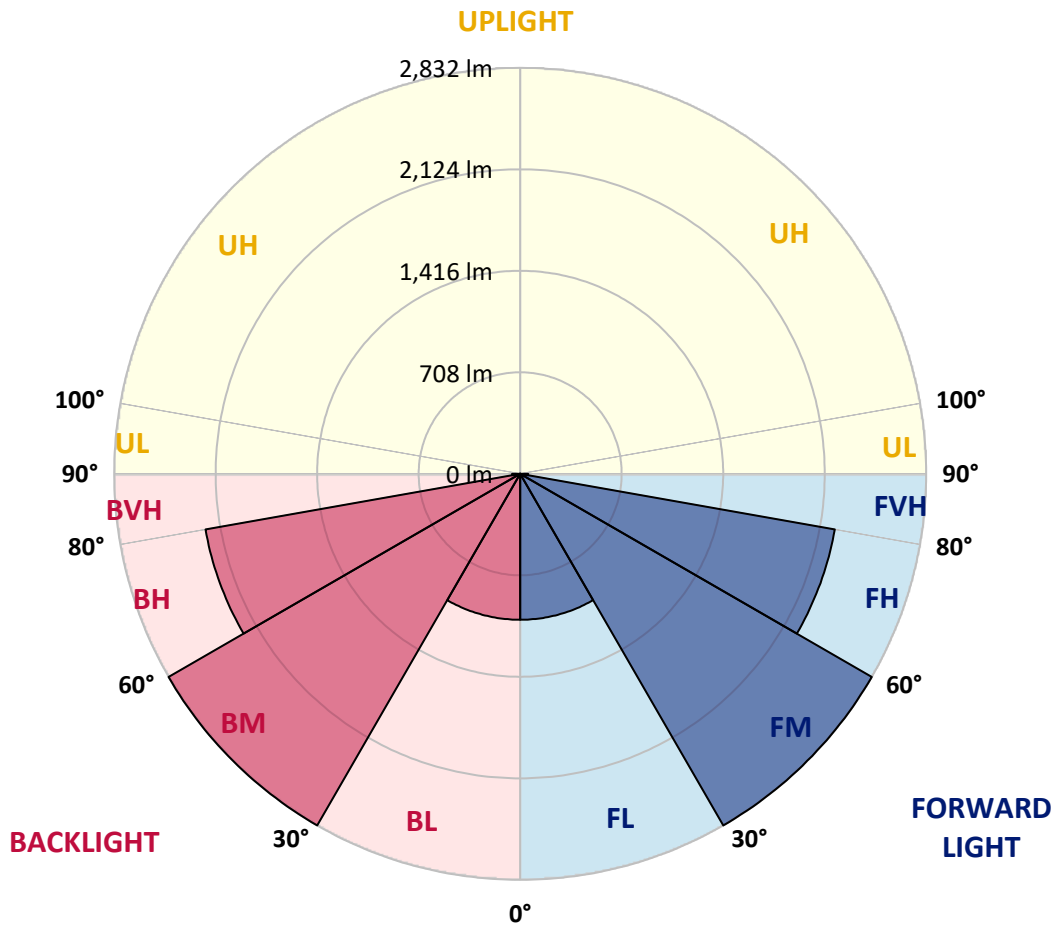
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1017.6	8.3			
FM (30°-60°)	2831.7	23.1			
FH (60°-80°)	2228.5	18.2			G2/5000
FVH (80°-90°)	56.3	0.5			G1/100
BL (0°-30°)	1017.6	8.3	B3/2500		
BM (30°-60°)	2831.7	23.1	B3/5000		
BH (60°-80°)	2228.5	18.2	B3/2500		G3/2500
BVH (80°-90°)	56.3	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°	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4	2292.4
2.5°	2294.4	2297.0	2297.0	2295.0	2299.6	2295.7	2295.7	2293.7	2295.7	2293.7	2293.7
5°	2306.1	2309.4	2310.7	2310.0	2315.9	2312.6	2312.6	2310.0	2310.7	2308.7	2308.7
7.5°	2328.3	2332.8	2335.4	2338.7	2347.2	2343.3	2340.7	2332.8	2329.6	2324.4	2324.4
10°	2335.4	2340.7	2349.1	2366.1	2385.6	2386.3	2378.5	2358.9	2343.9	2332.2	2330.2
12.5°	2313.3	2320.4	2338.0	2372.6	2416.3	2433.9	2421.5	2388.9	2359.6	2338.7	2335.4
15°	2285.2	2293.1	2319.8	2371.9	2436.5	2477.6	2476.3	2433.2	2386.3	2353.7	2348.5
17.5°	2241.5	2249.4	2287.8	2360.9	2452.1	2520.0	2538.2	2493.9	2428.0	2384.3	2377.2
20°	2162.7	2169.8	2223.3	2325.7	2457.4	2564.9	2612.5	2573.4	2491.3	2431.9	2420.8
22.5°	2060.3	2071.4	2134.0	2265.0	2445.0	2611.9	2697.3	2670.6	2564.9	2482.8	2467.8
25°	1950.8	1962.5	2035.5	2190.7	2413.0	2645.8	2797.7	2780.7	2648.4	2546.0	2525.2
27.5°	1856.2	1868.6	1948.2	2117.0	2363.5	2658.8	2896.8	2905.3	2749.5	2615.8	2593.6
30°	1781.9	1793.6	1878.4	2057.7	2299.6	2645.8	2983.5	3042.2	2852.5	2676.4	2644.5
32.5°	1700.4	1715.4	1804.7	1985.3	2223.9	2614.5	3059.1	3190.2	2971.8	2741.6	2701.2
35°	1597.4	1611.1	1705.0	1886.2	2124.8	2564.3	3122.4	3354.5	3142.6	2840.7	2795.7
37.5°	1472.2	1485.2	1578.5	1762.3	2026.4	2493.9	3170.6	3539.7	3346.0	2983.5	2923.5
40°	1346.4	1358.8	1446.1	1624.1	1908.4	2403.9	3187.6	3720.9	3579.4	3179.8	3115.9
42.5°	1231.0	1242.0	1322.2	1487.8	1776.0	2289.1	3165.4	3878.7	3788.7	3316.7	3234.5
45°	1124.7	1134.5	1205.5	1360.1	1638.5	2149.6	3098.9	4048.2	4037.8	3414.5	3303.6
47.5°	1003.4	1013.2	1086.9	1236.2	1500.9	1986.0	2986.1	4215.1	4384.0	3636.2	3508.4
50°	855.4	863.9	939.5	1093.4	1358.1	1811.9	2829.6	4346.2	4820.8	3971.9	3811.5
52.5°	680.0	689.2	762.8	916.7	1188.6	1624.8	2623.6	4431.6	5325.5	4462.2	4264.7
55°	505.9	512.5	576.4	714.6	978.6	1411.6	2365.4	4455.7	5897.9	5132.5	4885.4
57.5°	367.1	371.0	412.1	515.1	742.0	1144.9	2051.8	4393.1	6579.3	5991.8	5680.8
60°	297.3	298.6	311.0	356.6	515.7	843.7	1673.0	4178.0	7318.6	7099.5	6707.7
62.5°	269.9	269.9	273.2	285.6	348.8	556.8	1214.7	3732.0	8111.4	8499.4	7974.5
65°	251.0	251.0	252.3	258.2	275.1	354.7	766.7	3005.7	8779.7	10139.1	9475.4
67.5°	234.1	234.7	234.1	236.0	245.8	262.1	444.7	2075.9	9139.6	11838.2	11121.7
70°	216.5	217.8	214.5	214.5	222.3	223.0	278.4	1138.4	8841.0	13262.2	13073.8
72.5°	195.6	197.6	192.3	191.0	196.9	194.3	209.3	546.4	7590.5	13687.3	14182.8
75°	177.3	179.9	168.2	165.0	165.0	163.0	170.2	280.4	4926.5	11165.4	11942.5
77.5°	161.0	166.3	147.4	136.9	134.3	128.4	138.9	171.5	2154.8	5242.0	5133.1
80°	133.0	140.2	121.3	108.9	104.3	97.8	109.5	120.0	640.9	1217.3	1165.8
82.5°	99.1	102.4	86.1	77.6	73.7	69.1	82.2	83.5	208.6	431.0	487.0
85°	63.2	64.5	52.8	45.6	43.7	41.7	52.2	45.6	79.5	316.9	460.3
87.5°	22.2	25.4	20.2	18.3	19.6	16.3	24.1	13.7	22.2	223.6	277.1
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)