

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: P963667

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
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: -

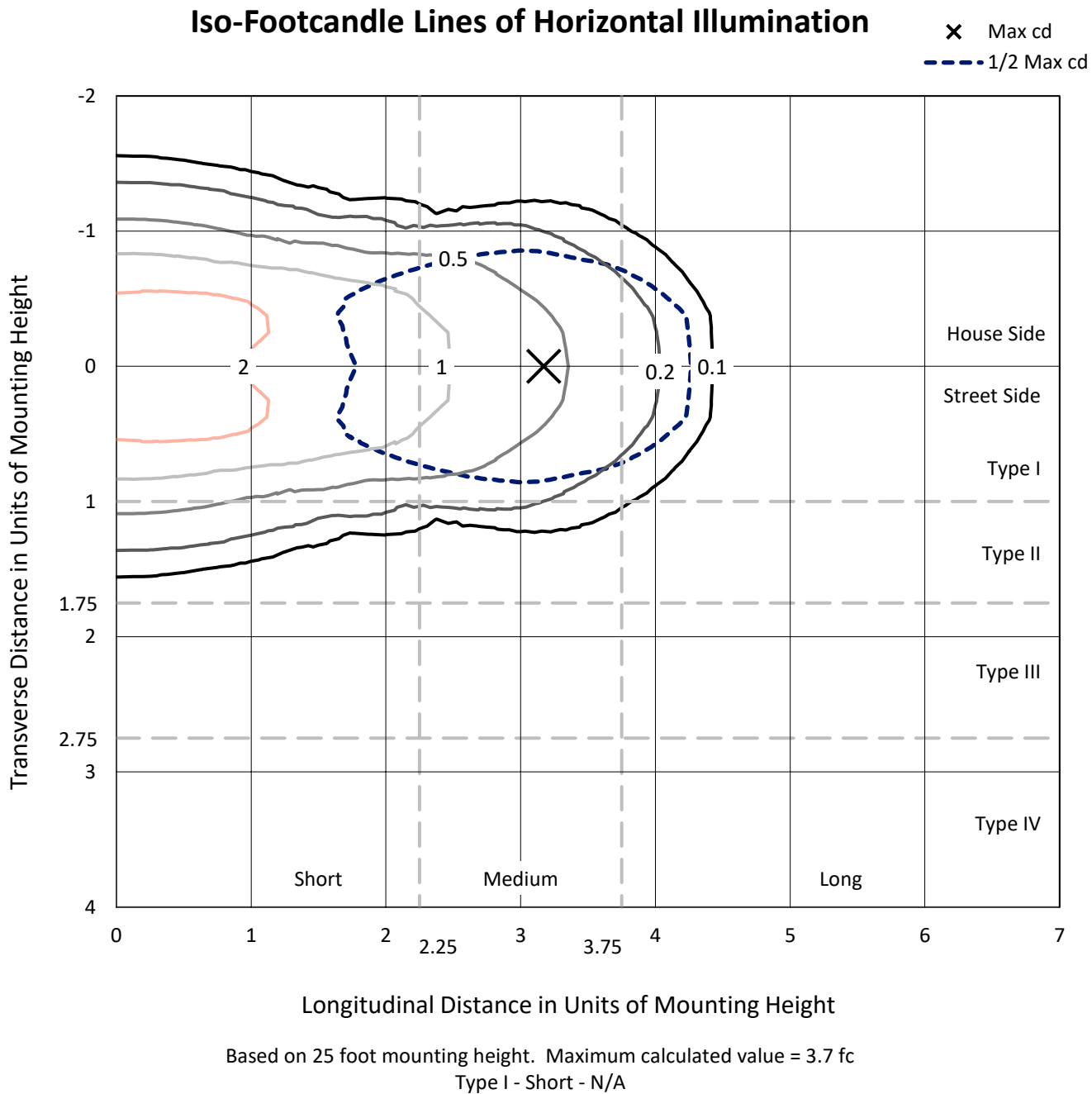
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12263.1 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

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

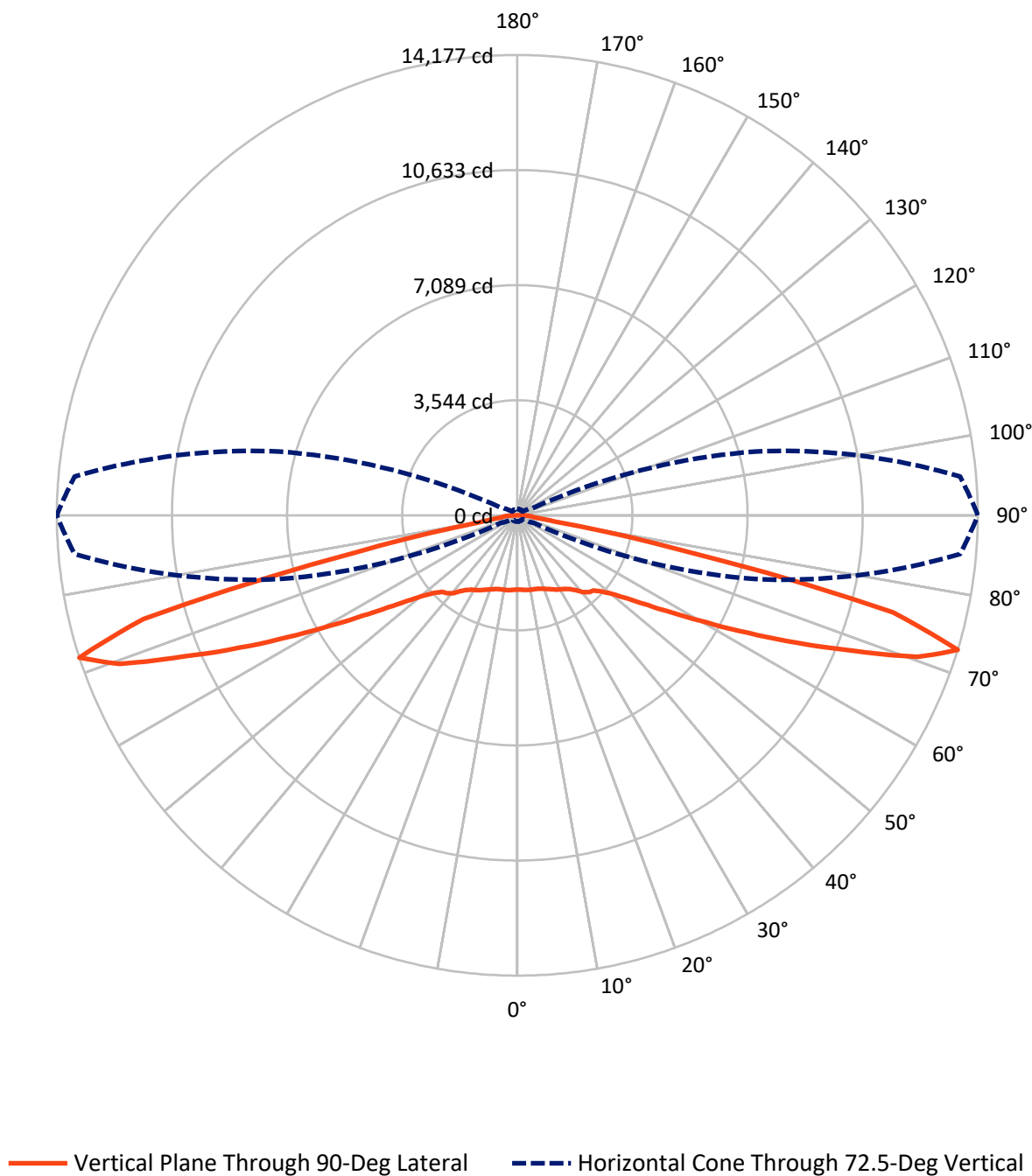


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6131.6	0.0	6131.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6131.6	0.0	6131.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	12263.1	0.0	12263.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	1.8
10°-20°	679.4	5.5
20°-30°	1132.8	9.2
30°-40°	1557.9	12.7
40°-50°	1902.6	15.5
50°-60°	2200.6	17.9
60°-70°	2623.9	21.4
70°-80°	1831.3	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°	12263.1	100.0
0°-180°	12263.1	100.0

Coefficient of Utilization



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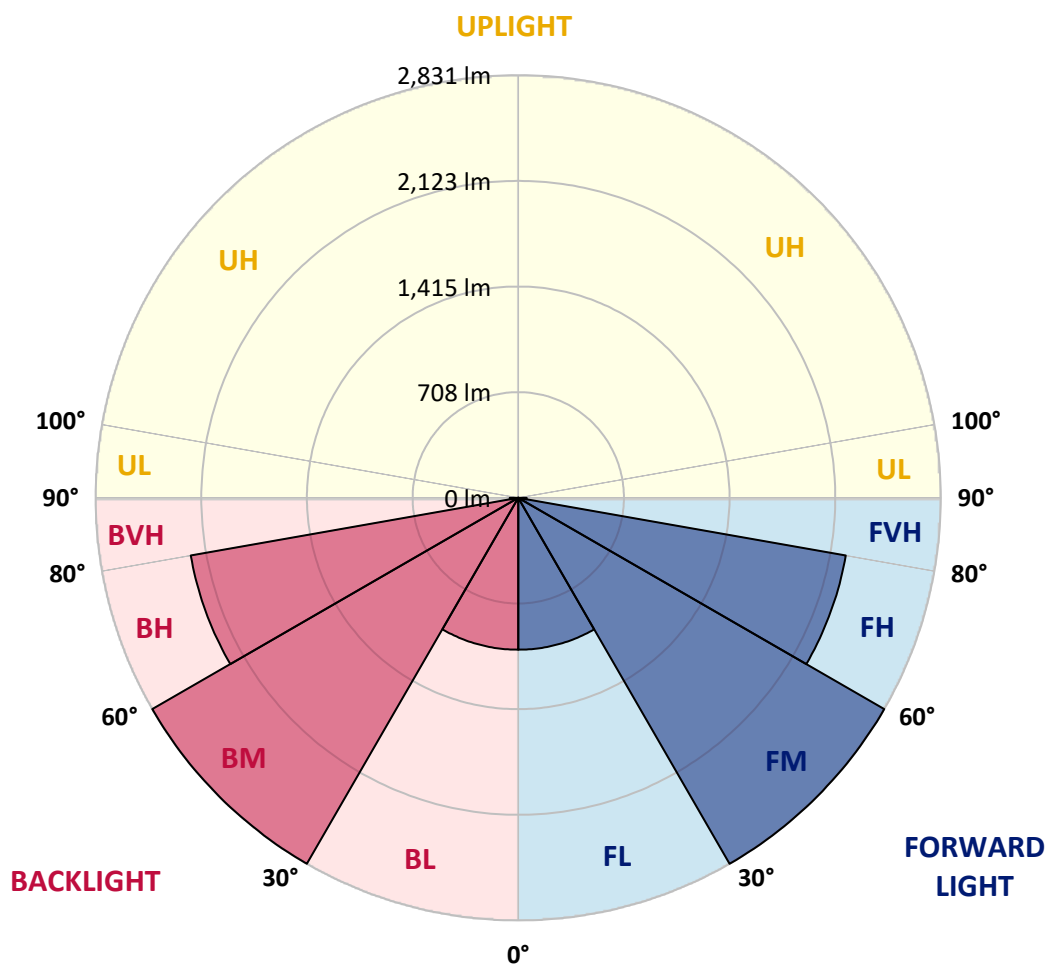
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1017.2	8.3			
FM	(30°-60°)	2830.6	23.1			
FH	(60°-80°)	2227.6	18.2			G2/5000
FVH	(80°-90°)	56.2	0.5			G1/100
BL	(0°-30°)	1017.2	8.3	B3/2500		
BM	(30°-60°)	2830.6	23.1	B3/5000		
BH	(60°-80°)	2227.6	18.2	B3/2500		G3/2500
BVH	(80°-90°)	56.2	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°	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5	2291.5
2.5°	2293.4	2296.1	2296.1	2294.1	2298.7	2294.8	2294.8	2292.8	2294.8	2292.8	2292.8
5°	2305.2	2308.4	2309.7	2309.1	2315.0	2311.7	2311.7	2309.1	2309.7	2307.8	2307.8
7.5°	2327.4	2331.9	2334.5	2337.7	2346.2	2342.3	2339.8	2331.9	2328.6	2323.5	2323.5
10°	2334.5	2339.8	2348.2	2365.1	2384.7	2385.4	2377.5	2358.0	2342.9	2331.3	2329.3
12.5°	2312.3	2319.5	2337.1	2371.6	2415.3	2432.9	2420.5	2387.9	2358.6	2337.7	2334.5
15°	2284.3	2292.1	2318.9	2371.0	2435.5	2476.6	2475.3	2432.2	2385.4	2352.8	2347.6
17.5°	2240.6	2248.4	2286.9	2360.0	2451.2	2518.9	2537.2	2492.9	2427.1	2383.4	2376.3
20°	2161.8	2169.0	2222.4	2324.7	2456.4	2563.9	2611.5	2572.3	2490.2	2431.0	2419.9
22.5°	2059.4	2070.6	2133.1	2264.1	2444.0	2610.9	2696.3	2669.5	2563.9	2481.8	2466.8
25°	1950.0	1961.7	2034.7	2189.8	2412.0	2644.7	2796.6	2779.6	2647.4	2545.0	2524.2
27.5°	1855.5	1867.9	1947.4	2116.2	2362.5	2657.7	2895.6	2904.1	2748.3	2614.8	2592.6
30°	1781.1	1792.9	1877.6	2056.9	2298.7	2644.7	2982.3	3041.0	2851.3	2675.4	2643.5
32.5°	1699.8	1714.7	1804.0	1984.5	2223.0	2613.4	3057.9	3188.9	2970.6	2740.5	2700.2
35°	1596.7	1610.5	1704.3	1885.5	2124.0	2563.2	3121.1	3353.2	3141.3	2839.6	2794.7
37.5°	1471.6	1484.6	1577.9	1761.7	2025.6	2492.9	3169.4	3538.3	3344.7	2982.3	2922.4
40°	1345.8	1358.2	1445.6	1623.5	1907.6	2402.9	3186.3	3719.4	3578.0	3178.5	3114.7
42.5°	1230.5	1241.6	1321.7	1487.3	1775.3	2288.2	3164.2	3877.2	3787.2	3315.4	3233.3
45°	1124.2	1134.1	1205.1	1359.6	1637.8	2148.8	3097.7	4046.6	4036.1	3413.1	3302.3
47.5°	1003.1	1012.8	1086.4	1235.6	1500.3	1985.2	2984.9	4213.5	4382.3	3634.8	3506.9
50°	855.1	863.6	939.1	1093.0	1357.5	1811.2	2828.5	4344.5	4818.9	3970.3	3810.0
52.5°	679.8	688.9	762.5	916.4	1188.1	1624.1	2622.6	4429.8	5323.3	4460.5	4263.0
55°	505.7	512.3	576.2	714.3	978.3	1411.0	2364.5	4453.9	5895.6	5130.4	4883.4
57.5°	367.0	370.8	411.8	514.9	741.7	1144.4	2051.0	4391.4	6576.6	5989.4	5678.5
60°	297.1	298.5	310.9	356.5	515.5	843.4	1672.4	4176.3	7315.7	7096.7	6705.0
62.5°	269.8	269.8	273.1	285.5	348.7	556.6	1214.2	3730.5	8108.2	8496.0	7971.3
65°	250.9	250.9	252.3	258.1	275.0	354.5	766.4	3004.5	8776.3	10135.1	9471.6
67.5°	234.0	234.6	234.0	236.0	245.7	262.0	444.4	2075.1	9136.0	11833.5	11117.3
70°	216.4	217.7	214.4	214.4	222.2	222.9	278.3	1138.0	8837.4	13256.8	13068.5
72.5°	195.6	197.5	192.3	191.0	196.8	194.2	209.2	546.1	7587.5	13681.8	14177.1
75°	177.2	179.9	168.1	164.9	164.9	163.0	170.1	280.2	4924.5	11160.9	11937.8
77.5°	161.0	166.2	147.3	136.8	134.3	128.4	138.8	171.4	2153.9	5239.9	5131.0
80°	132.9	140.1	121.3	108.9	104.2	97.8	109.5	119.9	640.6	1216.8	1165.3
82.5°	99.0	102.3	86.0	77.6	73.6	69.1	82.1	83.4	208.6	430.8	486.9
85°	63.2	64.5	52.8	45.6	43.7	41.7	52.2	45.6	79.5	316.7	460.1
87.5°	22.1	25.4	20.2	18.2	19.6	16.3	24.1	13.7	22.1	223.6	277.0
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)