

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: P964194

Luminaire Tested: **NAV-SB3B-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964194
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-SB3B-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

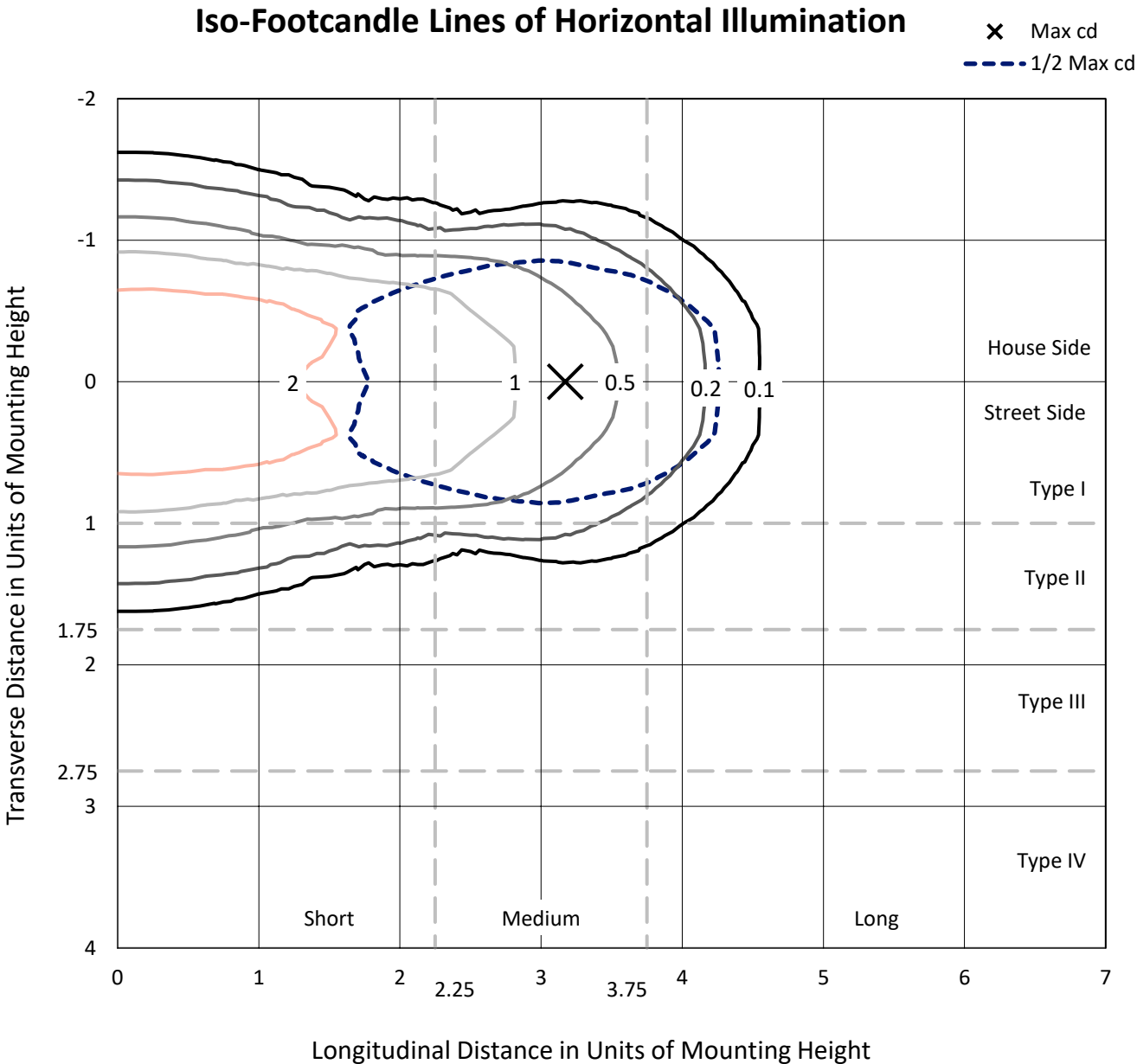
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15393.4 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 109.2
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



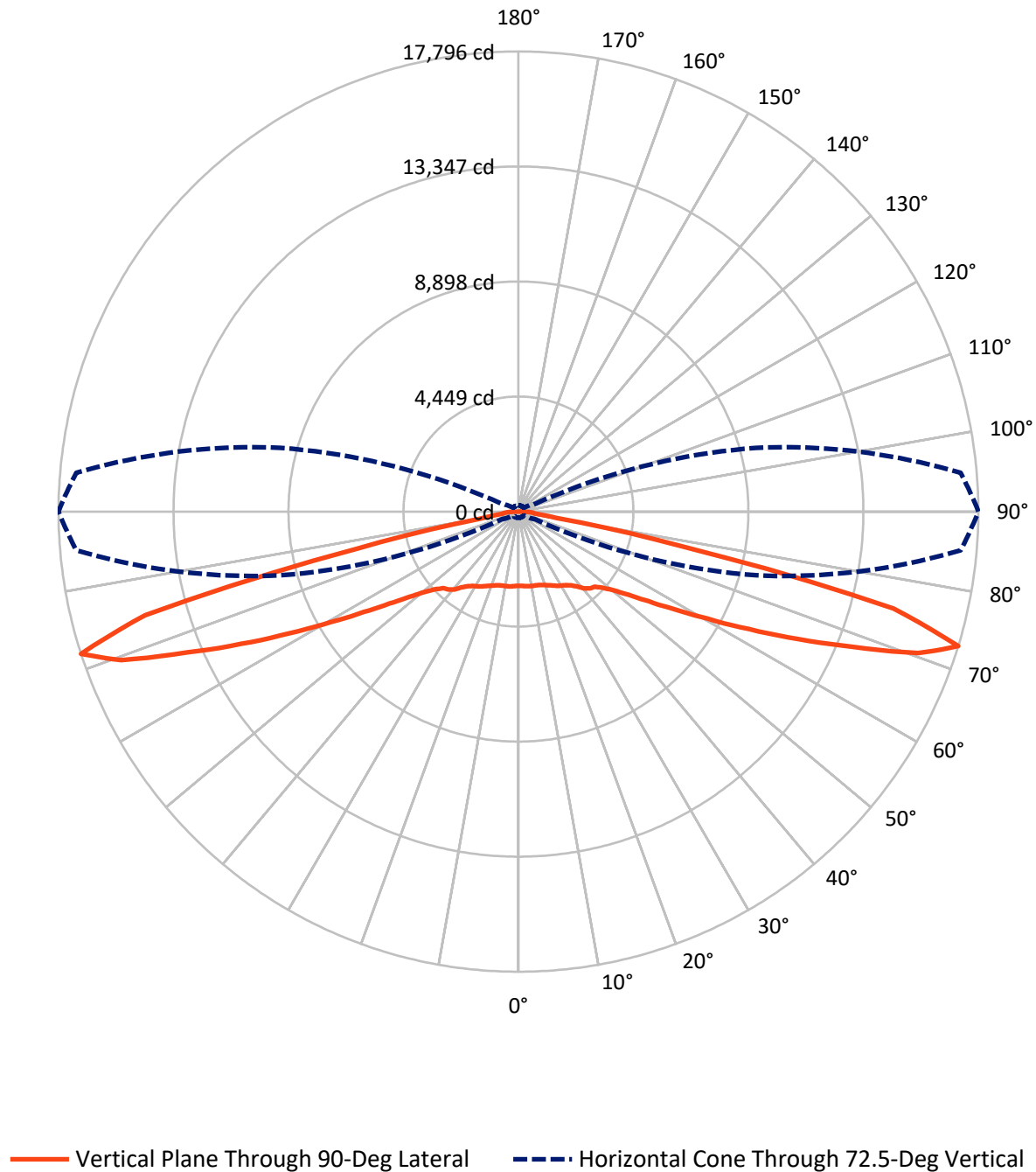
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Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7696.7	0.0	7696.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7696.7	0.0	7696.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	15393.4	0.0	15393.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	1.8
10°-20°	852.8	5.5
20°-30°	1421.9	9.2
30°-40°	1955.6	12.7
40°-50°	2388.3	15.5
50°-60°	2762.3	17.9
60°-70°	3293.6	21.4
70°-80°	2298.7	14.9
80°-90°	141.2	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°	15393.4	100.0
0°-180°	15393.4	100.0

Coefficient of Utilization



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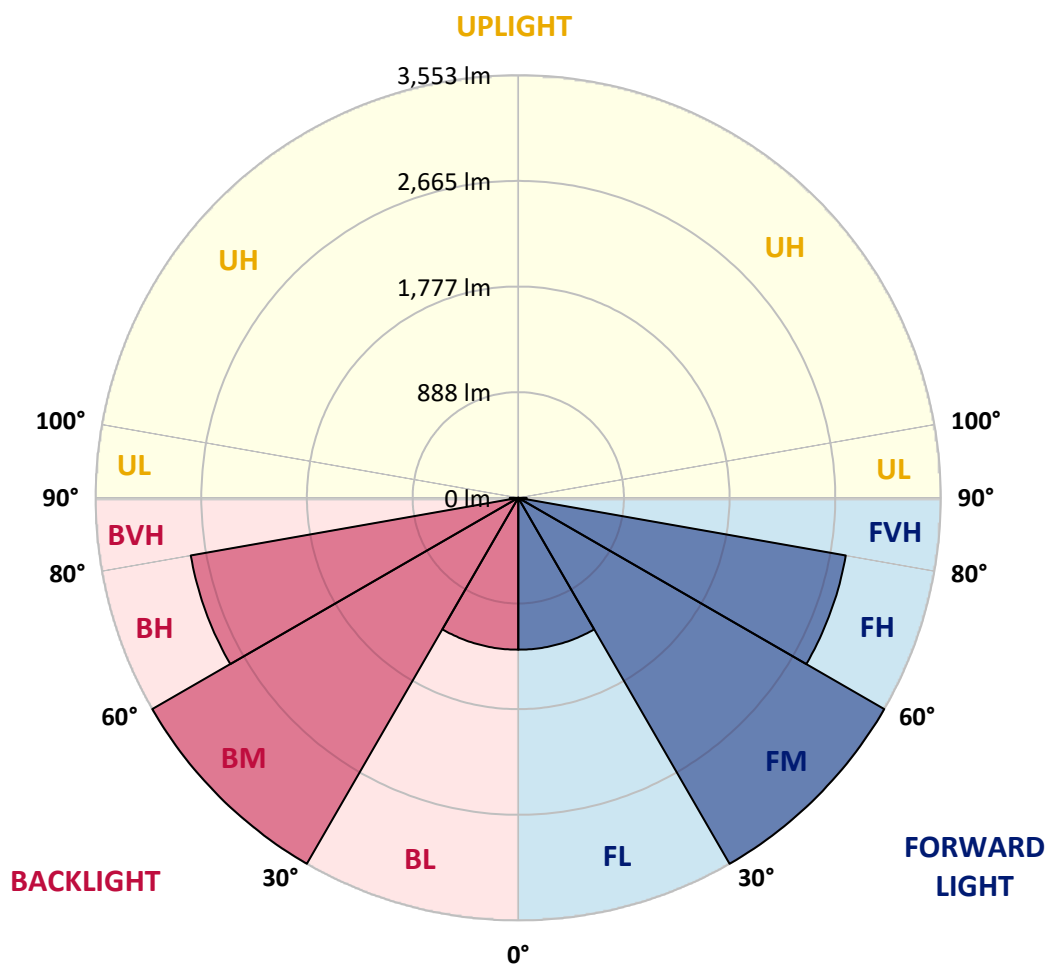
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1276.8	8.3			
FM	(30°-60°)	3553.1	23.1			
FH	(60°-80°)	2796.2	18.2			G2/5000
FVH	(80°-90°)	70.6	0.5			G1/100
BL	(0°-30°)	1276.8	8.3	B3/2500		
BM	(30°-60°)	3553.1	23.1	B3/5000		
BH	(60°-80°)	2796.2	18.2	B4/5000		G4/5000
BVH	(80°-90°)	70.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2876.5	2876.5	2876.5	2876.5	2876.5	2876.5	2876.5	2876.5	2876.5	2876.5	2876.5
2.5°	2878.9	2882.2	2882.2	2879.7	2885.5	2880.6	2880.6	2878.1	2880.6	2878.1	2878.1
5°	2893.6	2897.7	2899.3	2898.5	2905.9	2901.8	2901.8	2898.5	2899.3	2896.9	2896.9
7.5°	2921.5	2927.2	2930.4	2934.5	2945.1	2940.2	2936.9	2927.2	2923.1	2916.5	2916.5
10°	2930.4	2936.9	2947.6	2968.9	2993.4	2994.2	2984.4	2959.9	2941.0	2926.4	2923.9
12.5°	2902.6	2911.6	2933.7	2977.0	3031.8	3054.0	3038.4	2997.5	2960.7	2934.5	2930.4
15°	2867.4	2877.3	2910.8	2976.2	3057.3	3108.7	3107.1	3053.2	2994.2	2953.3	2946.8
17.5°	2812.6	2822.4	2870.7	2962.4	3076.8	3161.9	3184.9	3129.2	3046.6	2991.8	2982.7
20°	2713.6	2722.6	2789.7	2918.2	3083.4	3218.4	3278.2	3229.1	3125.9	3051.5	3037.6
22.5°	2585.2	2599.1	2677.6	2842.0	3067.8	3277.3	3384.4	3350.9	3218.4	3115.3	3096.5
25°	2447.7	2462.5	2554.1	2748.8	3027.7	3319.9	3510.4	3489.2	3323.2	3194.6	3168.5
27.5°	2329.1	2344.7	2444.5	2656.4	2965.6	3336.2	3634.9	3645.4	3449.9	3282.3	3254.4
30°	2235.8	2250.6	2357.0	2581.9	2885.5	3319.9	3743.6	3817.2	3579.2	3358.3	3318.2
32.5°	2133.6	2152.4	2264.5	2491.1	2790.6	3280.6	3838.5	4002.9	3728.8	3440.1	3389.4
35°	2004.4	2021.5	2139.3	2366.7	2666.1	3217.6	3917.9	4209.1	3943.3	3564.4	3508.0
37.5°	1847.3	1863.7	1980.6	2211.3	2542.6	3129.2	3978.4	4441.4	4198.5	3743.6	3668.4
40°	1689.4	1704.9	1814.6	2037.9	2394.6	3016.4	3999.7	4668.9	4491.3	3989.8	3909.7
42.5°	1544.6	1558.5	1659.1	1866.9	2228.5	2872.4	3971.9	4866.9	4754.0	4161.7	4058.6
45°	1411.2	1423.5	1512.7	1706.5	2055.8	2697.3	3888.4	5079.6	5066.5	4284.4	4145.3
47.5°	1259.0	1271.3	1363.8	1551.1	1883.2	2491.9	3746.9	5289.0	5500.9	4562.5	4402.2
50°	1073.4	1083.9	1178.9	1372.0	1704.1	2273.4	3550.5	5453.4	6049.0	4983.9	4782.5
52.5°	853.3	864.7	957.1	1150.3	1491.4	2038.7	3292.0	5560.6	6682.2	5599.1	5351.2
55°	634.9	643.0	723.2	896.7	1227.9	1771.2	2968.1	5590.9	7400.5	6440.1	6130.0
57.5°	460.6	465.5	517.0	646.3	931.0	1436.5	2574.6	5512.3	8255.5	7518.3	7128.1
60°	373.1	374.6	390.2	447.5	647.1	1058.6	2099.2	5242.4	9183.2	8908.3	8416.6
62.5°	338.7	338.7	342.8	358.3	437.7	698.6	1524.1	4682.8	10177.9	10664.7	10006.2
65°	315.0	315.0	316.6	324.0	345.2	445.1	962.1	3771.4	11016.5	12722.2	11889.4
67.5°	293.7	294.5	293.7	296.1	308.4	328.9	557.9	2604.8	11468.1	14854.2	13955.1
70°	271.6	273.3	269.2	269.2	279.0	279.8	349.3	1428.4	11093.4	16640.9	16404.5
72.5°	245.4	247.8	241.4	239.7	247.0	243.7	262.6	685.5	9524.3	17174.3	17796.0
75°	222.5	225.8	211.0	206.9	206.9	204.5	213.5	351.8	6181.6	14009.9	14985.1
77.5°	202.0	208.6	184.9	171.8	168.5	161.1	174.2	215.1	2703.8	6577.5	6440.9
80°	166.9	175.9	152.2	136.6	130.9	122.7	137.5	150.6	804.2	1527.4	1462.8
82.5°	124.3	128.4	108.0	97.4	92.5	86.7	103.1	104.8	261.8	540.8	611.1
85°	79.3	81.0	66.2	57.3	54.8	52.4	65.5	57.3	99.8	397.6	577.6
87.5°	27.8	31.9	25.3	22.9	24.5	20.5	30.2	17.2	27.8	280.6	347.7
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)