

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: P883472

Luminaire Tested: **NAV-SB3D-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27015 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

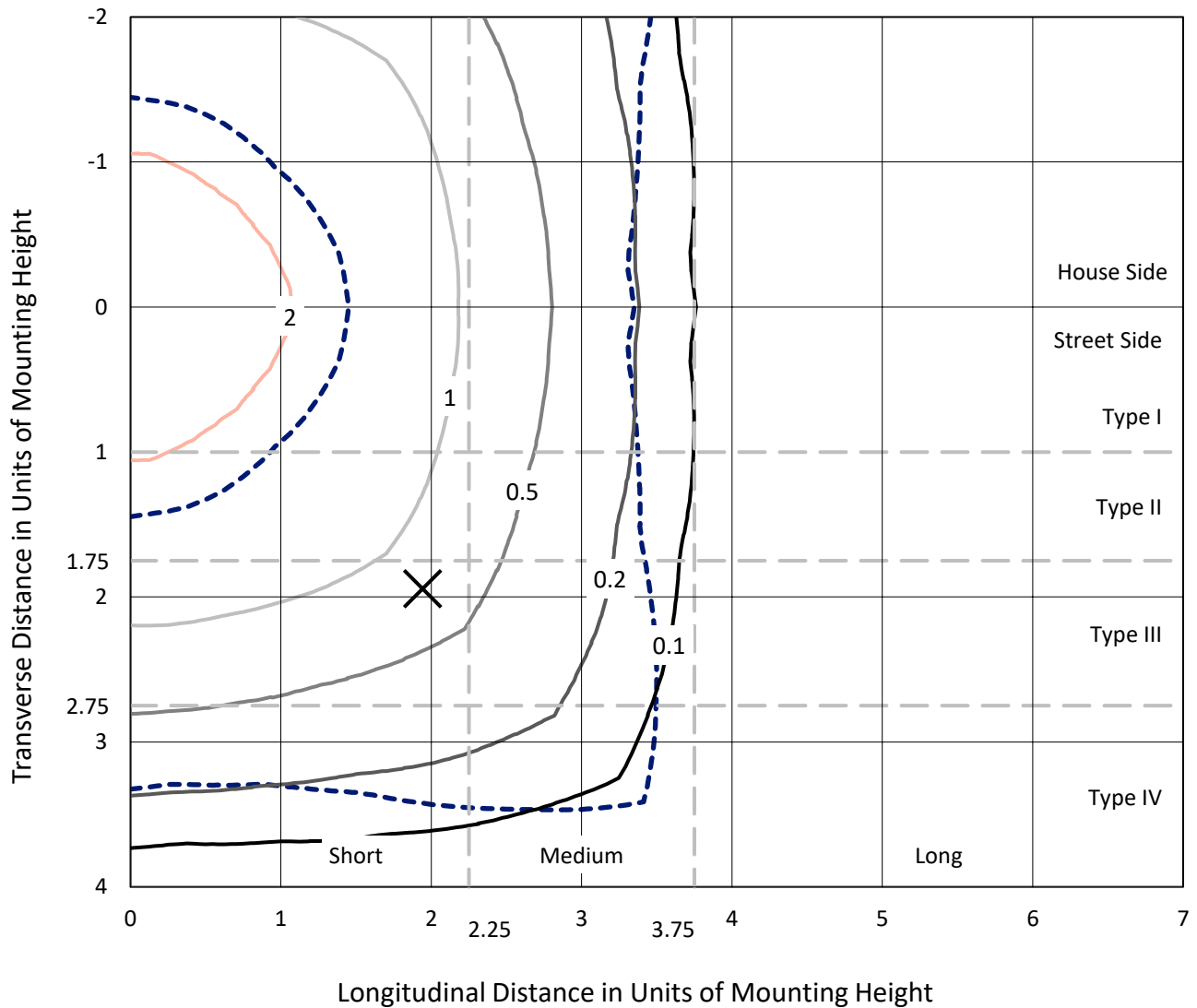
Input Watts (W): 218.1
Input Voltage (V): 120.0
Input Current (Ain): 1.84
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

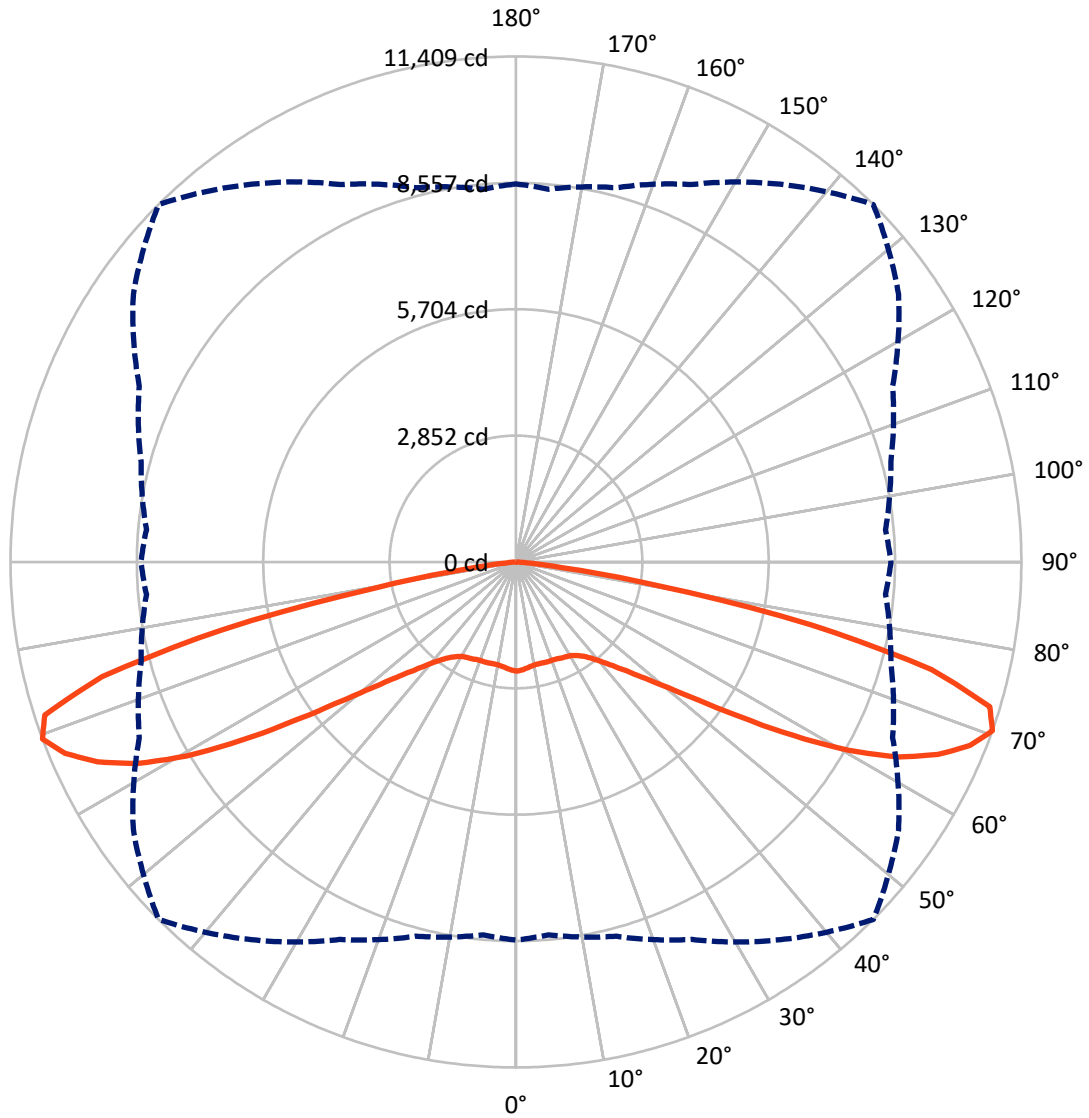
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13507.5	0.0	13507.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13507.5	0.0	13507.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27015.0	0.0	27015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.2	0.8
10°-20°	673.1	2.5
20°-30°	1120.1	4.1
30°-40°	1694.0	6.3
40°-50°	2815.0	10.4
50°-60°	5311.8	19.7
60°-70°	8969.2	33.2
70°-80°	5893.7	21.8
80°-90°	308.8	1.1
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°	27015.0	100.0
0°-180°	27015.0	100.0

Coefficient of Utilization



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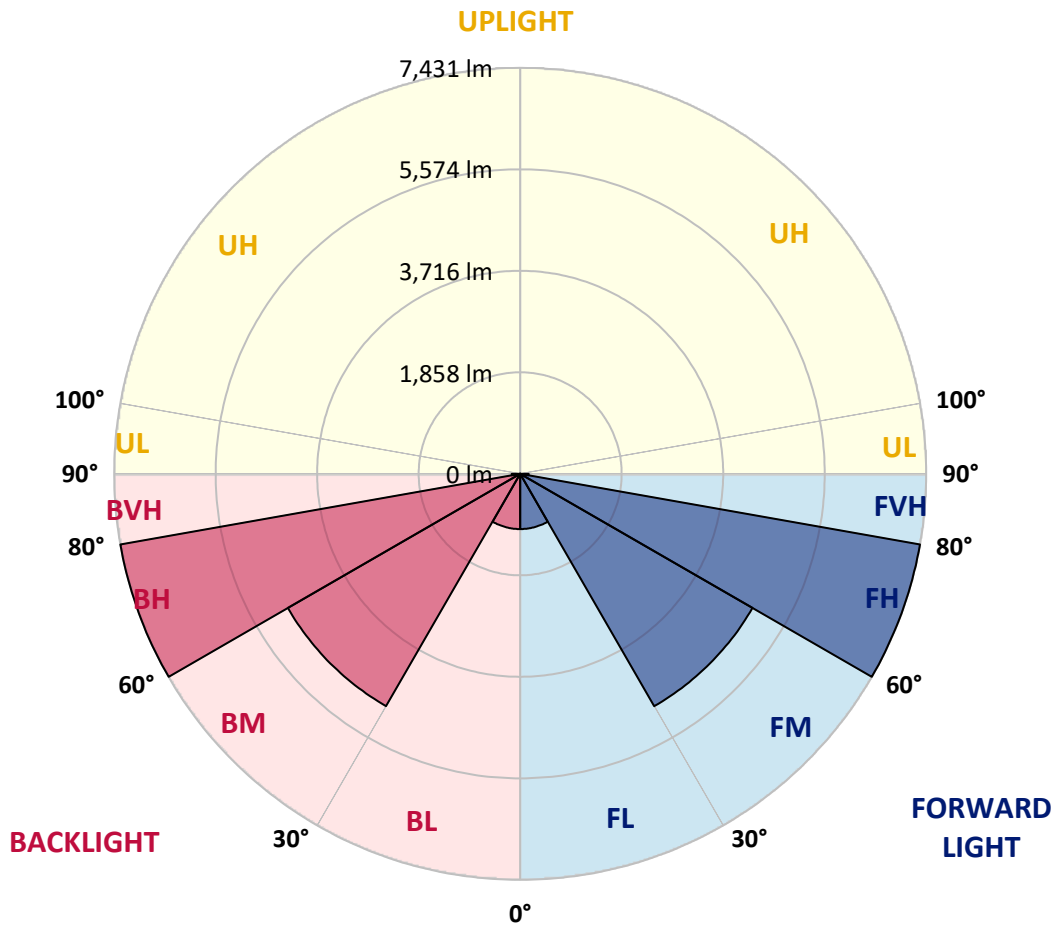
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1011.2	3.7			
FM (30°-60°)	4910.4	18.2			
FH (60°-80°)	7431.5	27.5			G3/7500
FVH (80°-90°)	154.4	0.6			G2/225
BL (0°-30°)	1011.2	3.7	B3/2500		
BM (30°-60°)	4910.4	18.2	B3/5000		
BH (60°-80°)	7431.5	27.5	B5		G3/7500
BVH (80°-90°)	154.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3	2464.3
2.5°	2448.9	2455.9	2453.1	2447.5	2447.5	2443.2	2447.5	2450.3	2454.5	2457.3	2455.9
5°	2416.6	2422.2	2420.8	2416.6	2418.0	2413.8	2416.6	2420.8	2423.6	2425.0	2425.0
7.5°	2388.5	2394.1	2391.3	2384.3	2384.3	2380.1	2381.5	2385.7	2389.9	2391.3	2391.3
10°	2381.5	2387.1	2378.7	2367.4	2363.2	2357.6	2359.0	2363.2	2371.6	2375.8	2375.8
12.5°	2384.3	2388.5	2380.1	2363.2	2359.0	2353.4	2353.4	2357.6	2368.8	2374.4	2375.8
15°	2392.7	2396.9	2384.3	2366.0	2361.8	2357.6	2356.2	2361.8	2374.4	2384.3	2385.7
17.5°	2408.1	2412.4	2392.7	2367.4	2361.8	2363.2	2361.8	2366.0	2385.7	2403.9	2403.9
20°	2422.2	2425.0	2398.3	2367.4	2361.8	2363.2	2361.8	2370.2	2395.5	2420.8	2422.2
22.5°	2426.4	2429.2	2403.9	2377.3	2373.0	2374.4	2373.0	2381.5	2405.3	2430.6	2430.6
25°	2427.8	2432.0	2412.4	2391.3	2398.3	2401.1	2398.3	2399.7	2418.0	2440.4	2439.0
27.5°	2448.9	2454.5	2436.2	2418.0	2422.2	2420.8	2425.0	2429.2	2443.2	2465.7	2460.1
30°	2492.4	2496.6	2481.2	2462.9	2460.1	2450.3	2462.9	2476.9	2492.4	2512.1	2507.8
32.5°	2564.0	2572.4	2552.8	2533.1	2520.5	2514.9	2524.7	2548.6	2569.6	2590.7	2582.3
35°	2683.4	2689.0	2670.7	2634.2	2611.7	2611.7	2620.2	2651.1	2684.8	2711.4	2701.6
37.5°	2851.9	2858.9	2826.6	2783.1	2749.4	2749.4	2760.6	2792.9	2843.4	2881.3	2867.3
40°	3056.9	3066.7	3026.0	2981.0	2948.7	2943.1	2957.2	2993.7	3041.4	3089.2	3073.7
42.5°	3304.0	3315.2	3261.9	3222.6	3197.3	3197.3	3204.3	3238.0	3281.5	3340.5	3336.3
45°	3619.9	3639.6	3566.6	3527.3	3503.4	3509.0	3513.2	3542.7	3582.0	3649.4	3646.6
47.5°	3996.3	4015.9	3938.7	3898.0	3893.8	3920.4	3903.6	3924.6	3945.7	4022.9	4000.5
50°	4423.1	4456.8	4403.5	4400.7	4409.1	4458.2	4418.9	4430.1	4406.3	4455.4	4425.9
52.5°	4945.5	4994.6	4984.8	5001.6	5095.7	5196.8	5107.0	5067.6	4977.8	4993.2	4941.3
55°	5578.8	5653.2	5667.2	5768.3	5981.7	6188.2	5997.2	5838.5	5647.6	5612.5	5557.7
57.5°	6299.1	6358.1	6425.5	6631.9	7030.7	7397.1	7030.7	6679.6	6379.1	6307.5	6257.0
60°	7074.2	7147.2	7211.8	7516.5	8109.1	8624.4	8097.8	7540.4	7143.0	7046.1	6961.9
62.5°	7906.9	8000.9	8045.9	8384.3	9075.1	9690.2	9085.0	8409.6	7968.6	7864.7	7780.5
65°	8705.8	8783.1	8833.6	9194.5	9854.4	10470.9	9899.4	9233.8	8780.3	8644.0	8576.6
67.5°	9077.9	9120.1	9243.6	9652.2	10348.7	11052.2	10466.7	9695.8	9188.9	8950.2	8953.0
70°	8533.1	8447.5	8745.1	9399.5	10407.7	11408.9	10542.5	9379.8	8759.2	8371.6	8464.3
72.5°	6594.0	6446.5	6963.3	8082.4	9733.7	11181.4	9801.1	8145.6	7284.8	6498.5	6693.7
75°	3587.6	3420.5	4133.9	5549.3	7762.2	9691.6	7940.6	5707.9	4602.9	3561.0	3792.7
77.5°	1012.4	949.2	1524.9	2684.8	4668.9	6804.6	4848.6	2743.7	1808.6	1072.8	1192.1
80°	310.3	300.5	407.2	808.8	1982.7	3259.1	1905.5	818.6	518.1	327.2	345.4
82.5°	183.9	168.5	202.2	294.9	505.5	1023.6	491.5	307.5	247.1	165.7	179.7
85°	105.3	98.3	119.4	143.2	169.9	217.6	141.8	146.0	132.0	88.5	92.7
87.5°	43.5	39.3	46.3	44.9	39.3	50.5	37.9	44.9	53.4	35.1	32.3
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)