

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: P883982

Luminaire Tested: **NAV-SB4C-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883982
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-SB4C-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26862 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

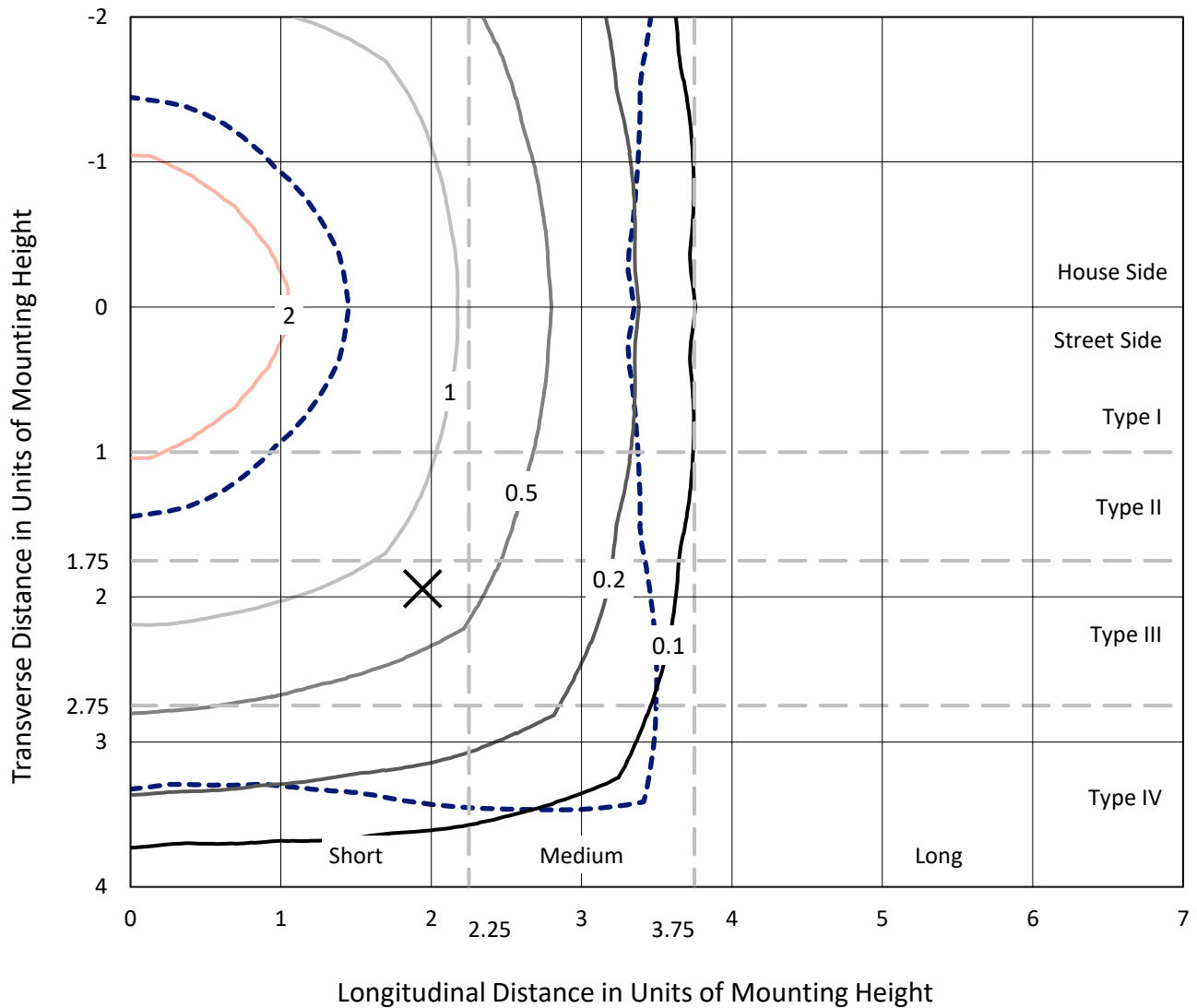
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

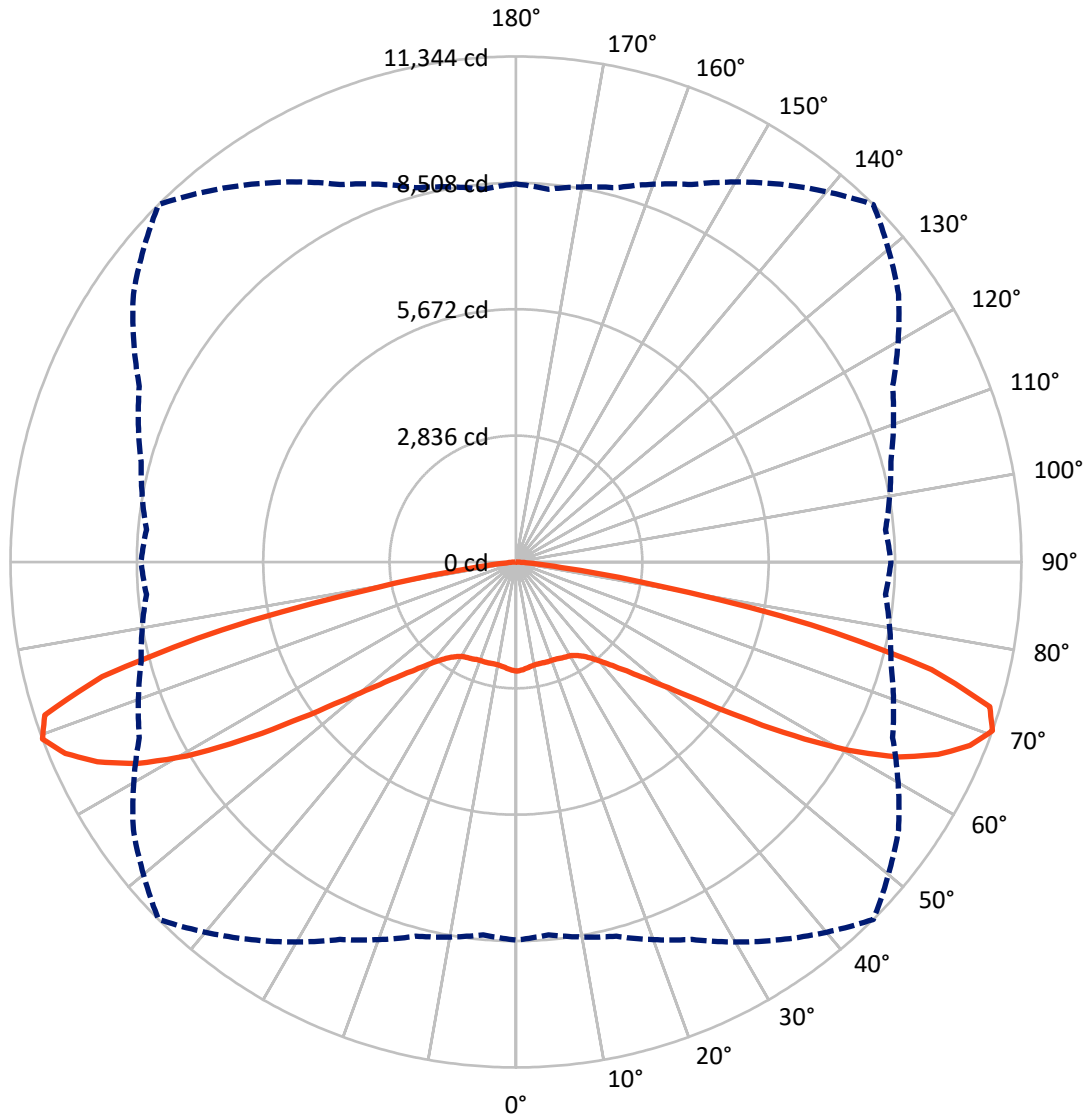
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	13431.0	0.0	13431.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13431.0	0.0	13431.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26862.0	0.0	26862.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	0.8
10°-20°	669.3	2.5
20°-30°	1113.8	4.1
30°-40°	1684.4	6.3
40°-50°	2799.1	10.4
50°-60°	5281.7	19.7
60°-70°	8918.4	33.2
70°-80°	5860.3	21.8
80°-90°	307.0	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°	26862.0	100.0
0°-180°	26862.0	100.0



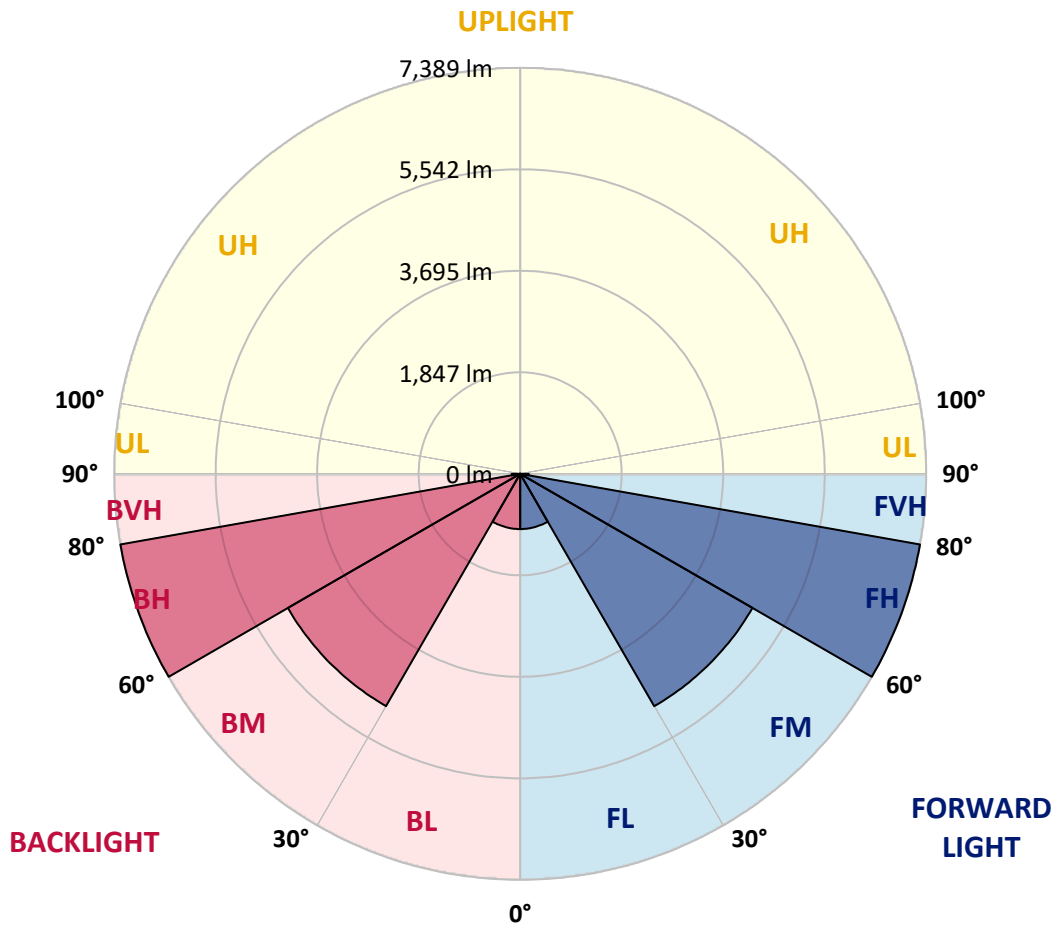
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.5	3.7			
FM (30°-60°)	4882.6	18.2			
FH (60°-80°)	7389.4	27.5			G3/7500
FVH (80°-90°)	153.5	0.6			G2/225
BL (0°-30°)	1005.5	3.7	B3/2500		
BM (30°-60°)	4882.6	18.2	B3/5000		
BH (60°-80°)	7389.4	27.5	B5		G3/7500
BVH (80°-90°)	153.5	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°	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4	2450.4
2.5°	2435.0	2442.0	2439.2	2433.6	2433.6	2429.4	2433.6	2436.4	2440.6	2443.4	2442.0
5°	2402.9	2408.5	2407.1	2402.9	2404.3	2400.1	2402.9	2407.1	2409.9	2411.3	2411.3
7.5°	2375.0	2380.5	2377.8	2370.8	2370.8	2366.6	2368.0	2372.2	2376.4	2377.8	2377.8
10°	2368.0	2373.6	2365.2	2354.0	2349.8	2344.2	2345.6	2349.8	2358.2	2362.4	2362.4
12.5°	2370.8	2375.0	2366.6	2349.8	2345.6	2340.1	2340.1	2344.2	2355.4	2361.0	2362.4
15°	2379.1	2383.3	2370.8	2352.6	2348.4	2344.2	2342.8	2348.4	2361.0	2370.8	2372.2
17.5°	2394.5	2398.7	2379.1	2354.0	2348.4	2349.8	2348.4	2352.6	2372.2	2390.3	2390.3
20°	2408.5	2411.3	2384.7	2354.0	2348.4	2349.8	2348.4	2356.8	2381.9	2407.1	2408.5
22.5°	2412.7	2415.4	2390.3	2363.8	2359.6	2361.0	2359.6	2368.0	2391.7	2416.8	2416.8
25°	2414.1	2418.2	2398.7	2377.8	2384.7	2387.5	2384.7	2386.1	2404.3	2426.6	2425.2
27.5°	2435.0	2440.6	2422.4	2404.3	2408.5	2407.1	2411.3	2415.4	2429.4	2451.8	2446.2
30°	2478.3	2482.5	2467.1	2449.0	2446.2	2436.4	2449.0	2462.9	2478.3	2497.8	2493.6
32.5°	2549.5	2557.9	2538.3	2518.8	2506.2	2500.6	2510.4	2534.1	2555.1	2576.0	2567.6
35°	2668.2	2673.7	2655.6	2619.3	2597.0	2597.0	2605.3	2636.1	2669.6	2696.1	2686.3
37.5°	2835.7	2842.7	2810.6	2767.3	2733.8	2733.8	2745.0	2777.1	2827.3	2865.0	2851.1
40°	3039.6	3049.3	3008.8	2964.2	2932.0	2926.5	2940.4	2976.7	3024.2	3071.7	3056.3
42.5°	3285.3	3296.5	3243.4	3204.3	3179.2	3179.2	3186.2	3219.7	3263.0	3321.6	3317.4
45°	3599.4	3619.0	3546.4	3507.3	3483.6	3489.1	3493.3	3522.6	3561.7	3628.8	3626.0
47.5°	3973.6	3993.2	3916.4	3875.9	3871.7	3898.2	3881.5	3902.4	3923.4	4000.2	3977.8
50°	4398.1	4431.6	4378.5	4375.7	4384.1	4433.0	4393.9	4405.1	4381.3	4430.2	4400.9
52.5°	4917.5	4966.3	4956.6	4973.3	5066.9	5167.4	5078.0	5038.9	4949.6	4964.9	4913.3
55°	5547.2	5621.2	5635.1	5735.6	5947.9	6153.1	5963.2	5805.5	5615.6	5580.7	5526.2
57.5°	6263.4	6322.1	6389.1	6594.3	6990.8	7355.3	6990.8	6641.8	6343.0	6271.8	6221.5
60°	7034.1	7106.7	7171.0	7473.9	8063.1	8575.5	8052.0	7497.7	7102.5	7006.2	6922.4
62.5°	7862.1	7955.6	8000.3	8336.8	9023.7	9635.3	9033.5	8361.9	7923.5	7820.2	7736.4
65°	8656.5	8733.3	8783.6	9142.4	9798.6	10411.6	9843.3	9181.5	8730.5	8595.1	8528.1
67.5°	9026.5	9068.4	9191.3	9597.6	10290.1	10989.6	10407.4	9640.9	9136.8	8899.5	8902.3
70°	8484.8	8399.6	8695.6	9346.3	10348.7	11344.2	10482.8	9326.7	8709.6	8324.2	8416.4
72.5°	6556.6	6410.0	6923.8	8036.6	9678.6	11118.1	9745.6	8099.4	7243.6	6461.7	6655.8
75°	3567.3	3401.2	4110.5	5517.8	7718.3	9636.7	7895.6	5675.6	4576.8	3540.8	3771.2
77.5°	1006.7	943.8	1516.3	2669.6	4642.4	6766.1	4821.1	2728.2	1798.3	1066.7	1185.4
80°	308.6	298.8	404.9	804.2	1971.5	3240.6	1894.7	814.0	515.2	325.3	343.5
82.5°	182.9	167.5	201.1	293.2	502.6	1017.8	488.7	305.8	245.7	164.8	178.7
85°	104.7	97.7	118.7	142.4	168.9	216.4	141.0	145.2	131.2	88.0	92.2
87.5°	43.3	39.1	46.1	44.7	39.1	50.3	37.7	44.7	53.1	34.9	32.1
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)