

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: P884952

Luminaire Tested: **NAV-SB6A-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884952
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-SB6A-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27540 lumens
Efficiency: N/A
Efficacy: 161.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

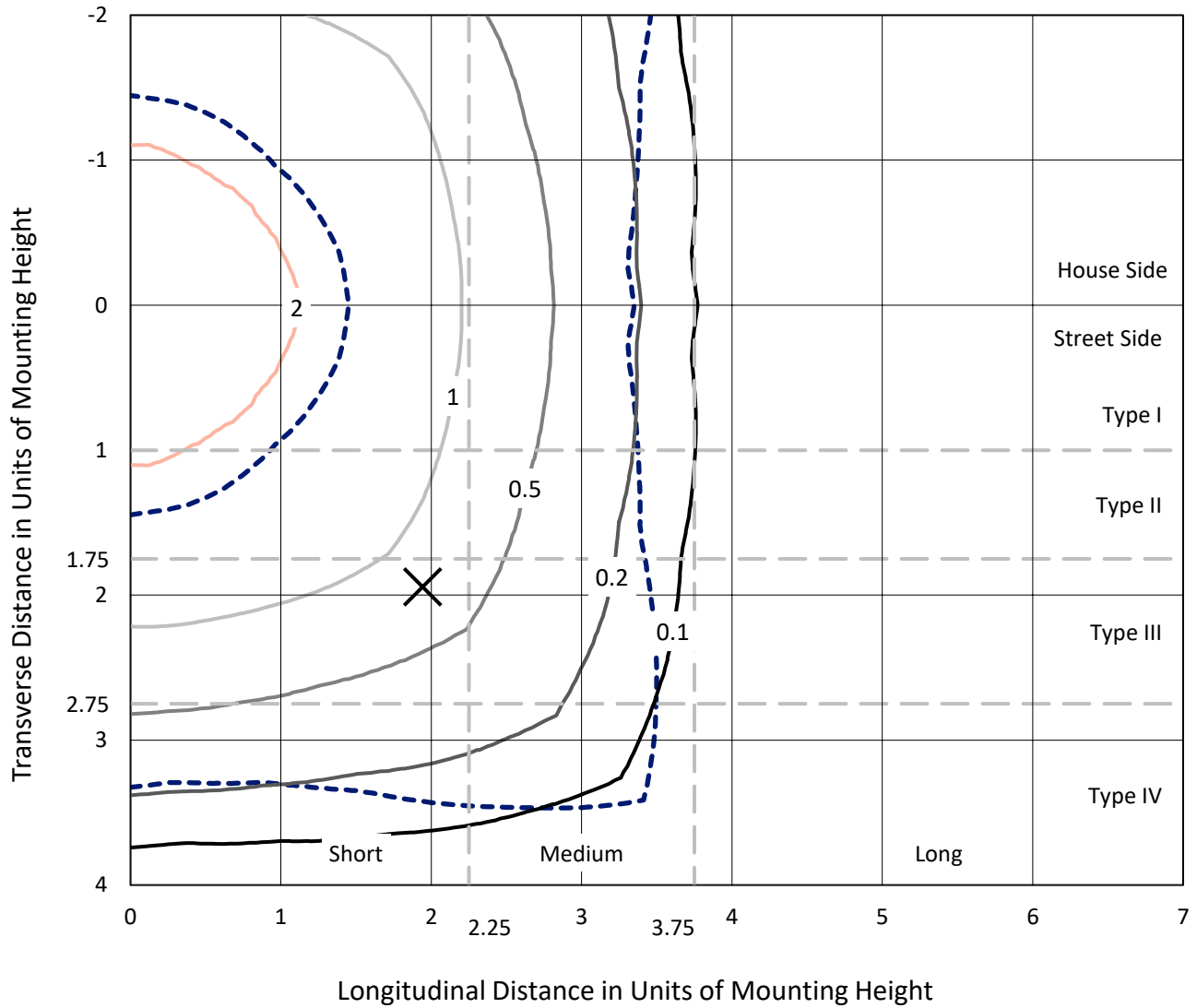
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

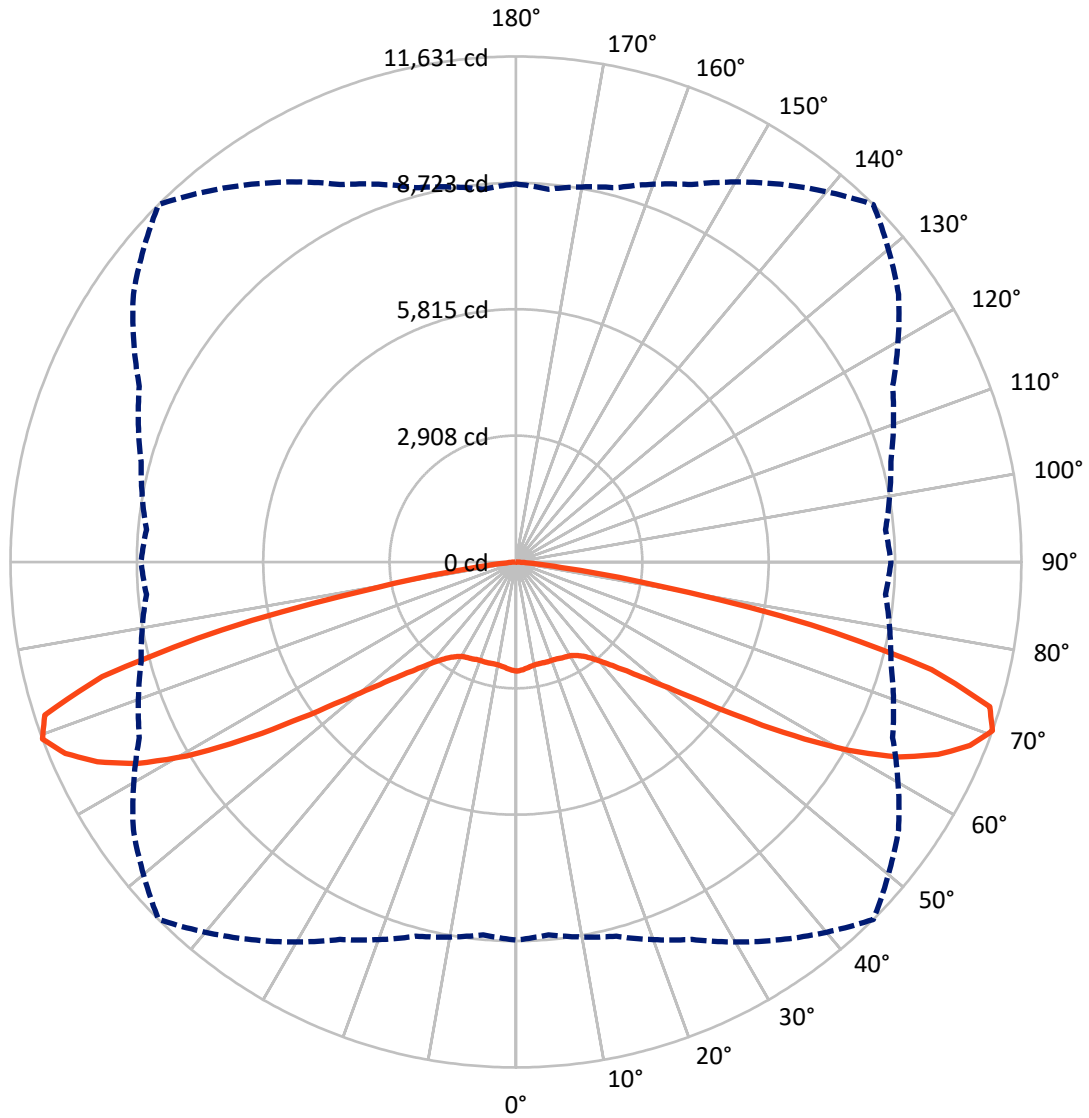
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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CATALOG NUMBER: NAV-SB6A-735-U-5WQ

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	13770.0	0.0	13770.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13770.0	0.0	13770.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27540.0	0.0	27540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	0.8
10°-20°	686.2	2.5
20°-30°	1141.9	4.1
30°-40°	1726.9	6.3
40°-50°	2869.7	10.4
50°-60°	5415.0	19.7
60°-70°	9143.5	33.2
70°-80°	6008.2	21.8
80°-90°	314.8	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°	27540.0	100.0
0°-180°	27540.0	100.0

Coefficient of Utilization



REPORT NUMBER: P884952

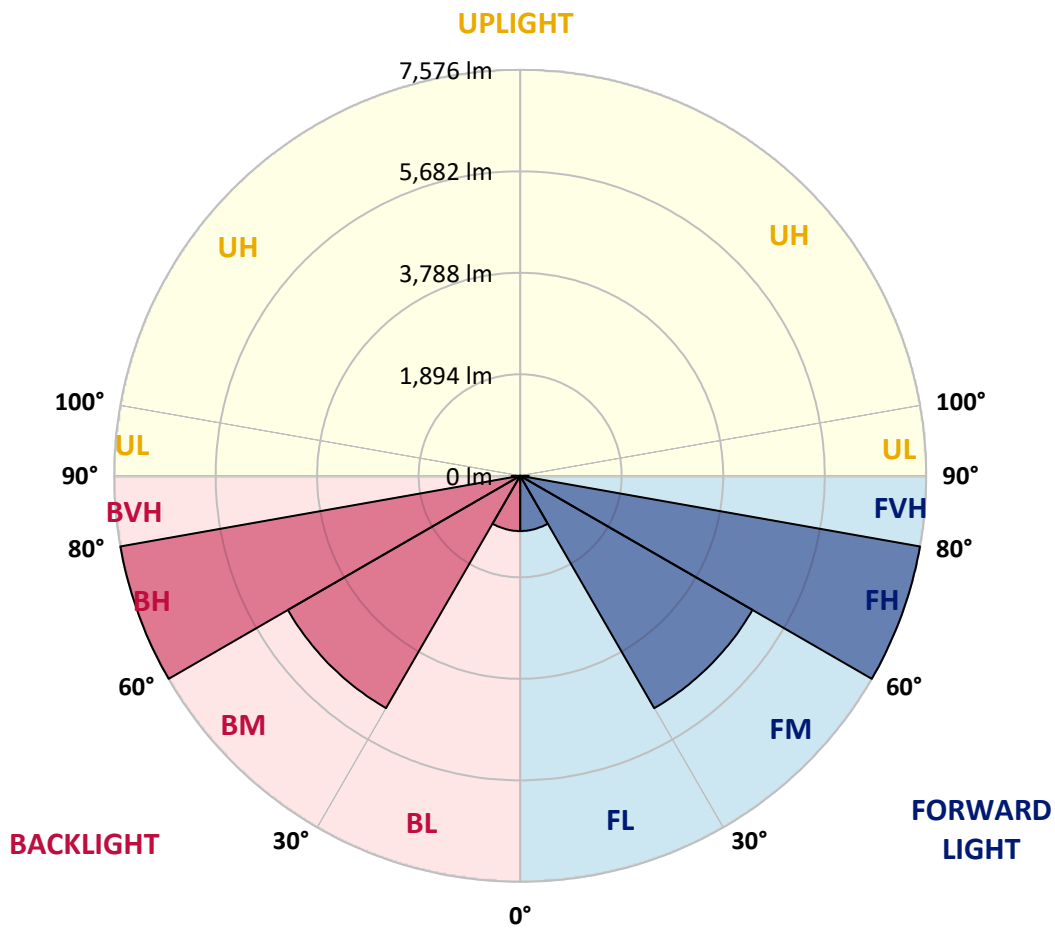
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.9	3.7			
FM (30°-60°)	5005.8	18.2			
FH (60°-80°)	7575.9	27.5			G4/12000
FVH (80°-90°)	157.4	0.6			G2/225
BL (0°-30°)	1030.9	3.7	B3/2500		
BM (30°-60°)	5005.8	18.2	B4/8500		
BH (60°-80°)	7575.9	27.5	B5		G4/12000
BVH (80°-90°)	157.4	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2	2512.2
2.5°	2496.5	2503.6	2500.8	2495.0	2495.0	2490.7	2495.0	2497.9	2502.2	2505.0	2503.6
5°	2463.5	2469.3	2467.8	2463.5	2465.0	2460.7	2463.5	2467.8	2470.7	2472.1	2472.1
7.5°	2434.9	2440.6	2437.8	2430.6	2430.6	2426.3	2427.7	2432.0	2436.3	2437.8	2437.8
10°	2427.7	2433.5	2424.9	2413.4	2409.1	2403.4	2404.8	2409.1	2417.7	2422.0	2422.0
12.5°	2430.6	2434.9	2426.3	2409.1	2404.8	2399.1	2399.1	2403.4	2414.9	2420.6	2422.0
15°	2439.2	2443.5	2430.6	2412.0	2407.7	2403.4	2402.0	2407.7	2420.6	2430.6	2432.0
17.5°	2454.9	2459.2	2439.2	2413.4	2407.7	2409.1	2407.7	2412.0	2432.0	2450.6	2450.6
20°	2469.3	2472.1	2444.9	2413.4	2407.7	2409.1	2407.7	2416.3	2442.1	2467.8	2469.3
22.5°	2473.6	2476.4	2450.6	2423.5	2419.2	2420.6	2419.2	2427.7	2452.1	2477.8	2477.8
25°	2475.0	2479.3	2459.2	2437.8	2444.9	2447.8	2444.9	2446.4	2465.0	2487.9	2486.4
27.5°	2496.5	2502.2	2483.6	2465.0	2469.3	2467.8	2472.1	2476.4	2490.7	2513.6	2507.9
30°	2540.8	2545.1	2529.4	2510.8	2507.9	2497.9	2510.8	2525.1	2540.8	2560.9	2556.6
32.5°	2613.8	2622.4	2602.4	2582.3	2569.5	2563.7	2573.8	2598.1	2619.6	2641.0	2632.4
35°	2735.5	2741.2	2722.6	2685.4	2662.5	2662.5	2671.1	2702.6	2736.9	2764.1	2754.1
37.5°	2907.3	2914.4	2881.5	2837.1	2802.8	2802.8	2814.2	2847.2	2898.7	2937.3	2923.0
40°	3116.3	3126.3	3084.8	3039.0	3006.1	3000.3	3014.6	3051.9	3100.5	3149.2	3133.5
42.5°	3368.2	3379.7	3325.3	3285.2	3259.4	3259.4	3266.6	3300.9	3345.3	3405.4	3401.1
45°	3690.3	3710.3	3635.9	3595.8	3571.5	3577.2	3581.5	3611.6	3651.6	3720.4	3717.5
47.5°	4073.9	4094.0	4015.2	3973.7	3969.4	3996.6	3979.4	4000.9	4022.4	4101.1	4078.2
50°	4509.1	4543.4	4489.0	4486.2	4494.8	4544.9	4504.8	4516.2	4491.9	4542.0	4511.9
52.5°	5041.6	5091.7	5081.7	5098.8	5194.7	5297.8	5206.2	5166.1	5074.5	5090.3	5037.3
55°	5687.2	5763.0	5777.3	5880.4	6098.0	6308.4	6113.7	5952.0	5757.3	5721.5	5665.7
57.5°	6421.5	6481.6	6550.3	6760.8	7167.3	7540.9	7167.3	6809.4	6503.1	6430.1	6378.6
60°	7211.7	7286.1	7351.9	7662.6	8266.6	8792.0	8255.2	7686.9	7281.8	7183.0	7097.2
62.5°	8060.5	8156.4	8202.2	8547.2	9251.5	9878.5	9261.5	8573.0	8123.5	8017.6	7931.7
65°	8875.0	8953.7	9005.3	9373.2	10045.9	10674.4	10091.8	9413.2	8950.9	8812.0	8743.3
67.5°	9254.4	9297.3	9423.3	9839.8	10549.8	11267.0	10670.1	9884.2	9367.4	9124.1	9127.0
70°	8698.9	8611.6	8915.1	9582.2	10609.9	11630.6	10747.4	9562.1	8929.4	8534.3	8628.8
72.5°	6722.1	6571.8	7098.6	8239.5	9922.8	11398.7	9991.6	8303.9	7426.4	6624.8	6823.7
75°	3657.4	3487.0	4214.2	5657.1	7913.1	9879.9	8094.9	5818.9	4692.3	3630.2	3866.4
77.5°	1032.1	967.7	1554.6	2736.9	4759.6	6936.8	4942.8	2797.1	1843.7	1093.6	1215.3
80°	316.4	306.3	415.1	824.5	2021.2	3322.4	1942.5	834.5	528.2	333.5	352.1
82.5°	187.5	171.8	206.1	300.6	515.3	1043.5	501.0	313.5	251.9	168.9	183.2
85°	107.4	100.2	121.7	146.0	173.2	221.9	144.6	148.9	134.6	90.2	94.5
87.5°	44.4	40.1	47.2	45.8	40.1	51.5	38.6	45.8	54.4	35.8	32.9
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)