

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: P883922

Luminaire Tested: **NAV-SB4C-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883922
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-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 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: 30220 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

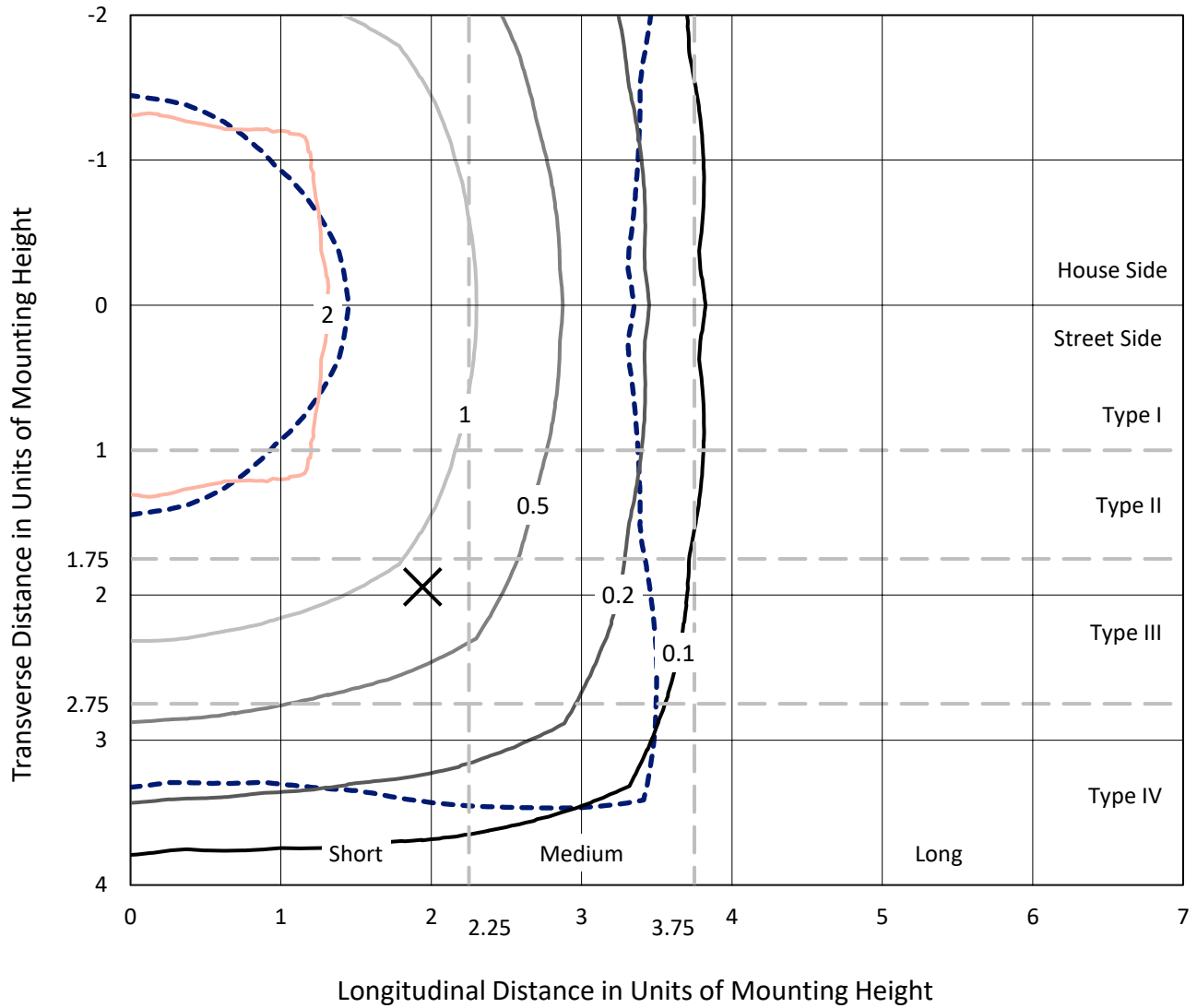
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

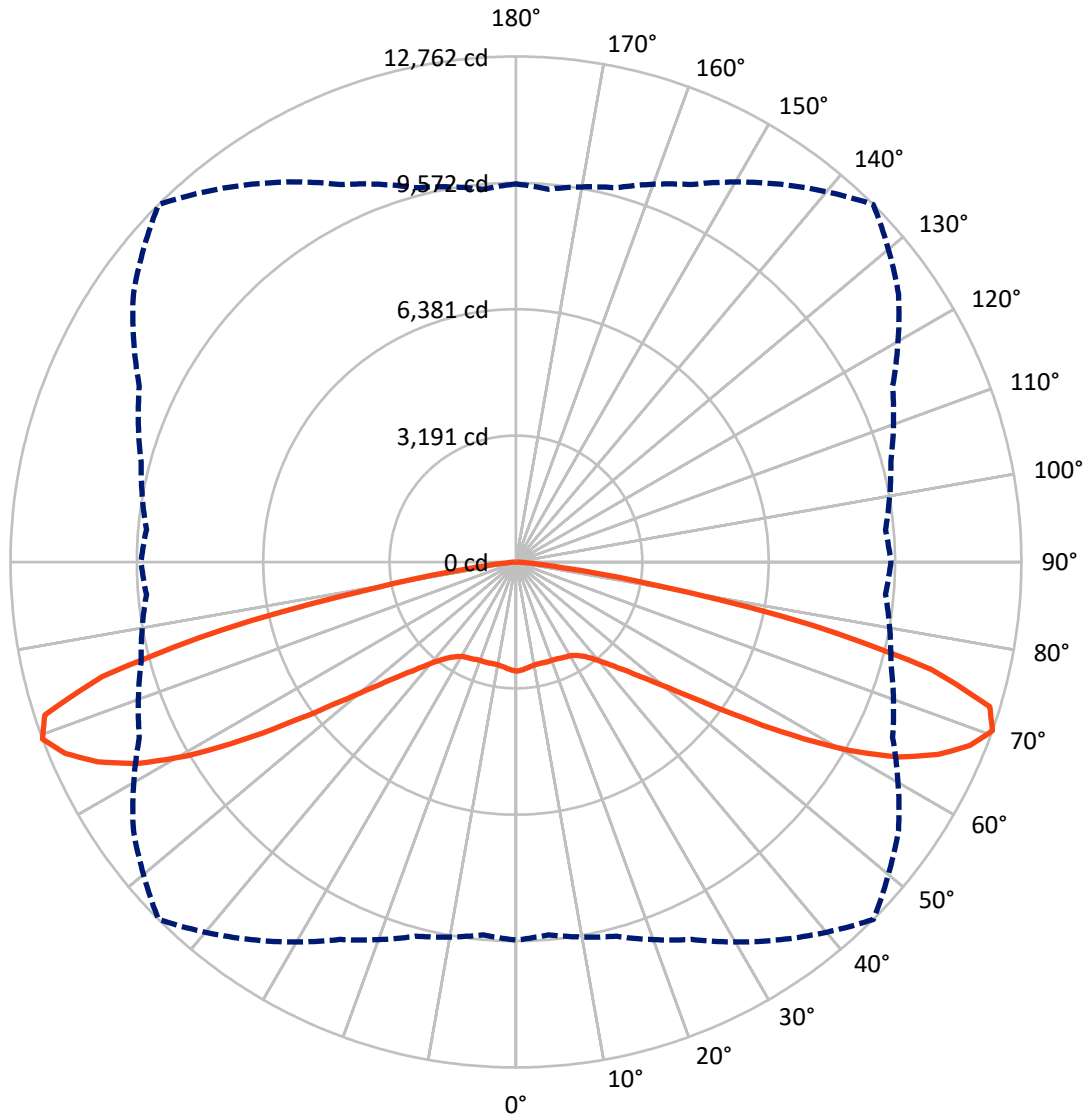
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	15110.0	0.0	15110.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15110.0	0.0	15110.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30220.0	0.0	30220.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	0.8
10°-20°	753.0	2.5
20°-30°	1253.0	4.1
30°-40°	1895.0	6.3
40°-50°	3149.0	10.4
50°-60°	5942.0	19.7
60°-70°	10033.3	33.2
70°-80°	6592.9	21.8
80°-90°	345.4	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°	30220.0	100.0
0°-180°	30220.0	100.0



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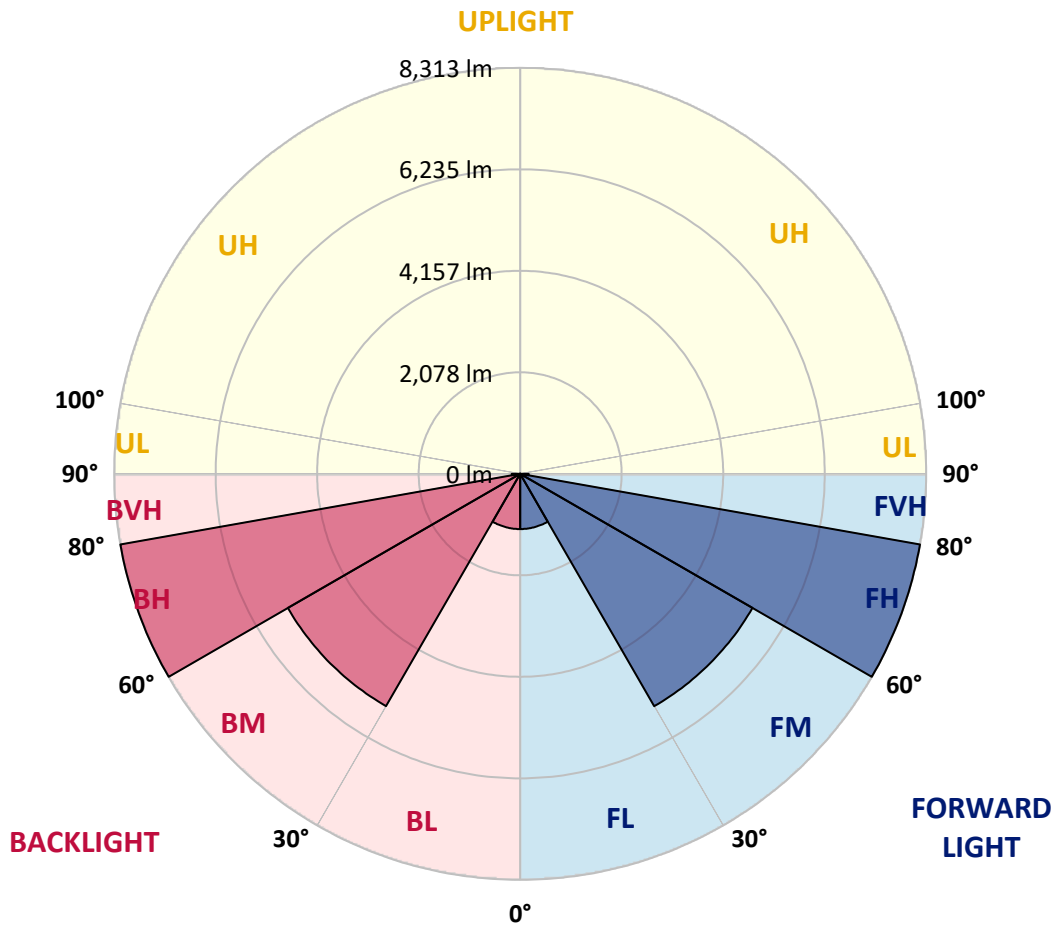
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.2	3.7			
FM (30°-60°)	5493.0	18.2			
FH (60°-80°)	8313.1	27.5			G4/12000
FVH (80°-90°)	172.7	0.6			G2/225
BL (0°-30°)	1131.2	3.7	B3/2500		
BM (30°-60°)	5493.0	18.2	B4/8500		
BH (60°-80°)	8313.1	27.5	B5		G4/12000
BVH (80°-90°)	172.7	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°	2756.7	2756.7	2756.7	2756.7	2756.7	2756.7	2756.7	2756.7	2756.7	2756.7	2756.7
2.5°	2739.4	2747.2	2744.1	2737.8	2737.8	2733.1	2737.8	2741.0	2745.7	2748.8	2747.2
5°	2703.3	2709.5	2708.0	2703.3	2704.8	2700.1	2703.3	2708.0	2711.1	2712.7	2712.7
7.5°	2671.9	2678.1	2675.0	2667.1	2667.1	2662.4	2664.0	2668.7	2673.4	2675.0	2675.0
10°	2664.0	2670.3	2660.9	2648.3	2643.6	2637.3	2638.9	2643.6	2653.0	2657.7	2657.7
12.5°	2667.1	2671.9	2662.4	2643.6	2638.9	2632.6	2632.6	2637.3	2649.9	2656.1	2657.7
15°	2676.6	2681.3	2667.1	2646.7	2642.0	2637.3	2635.7	2642.0	2656.1	2667.1	2668.7
17.5°	2693.8	2698.6	2676.6	2648.3	2642.0	2643.6	2642.0	2646.7	2668.7	2689.1	2689.1
20°	2709.5	2712.7	2682.8	2648.3	2642.0	2643.6	2642.0	2651.4	2679.7	2708.0	2709.5
22.5°	2714.3	2717.4	2689.1	2659.3	2654.6	2656.1	2654.6	2664.0	2690.7	2719.0	2719.0
25°	2715.8	2720.5	2698.6	2675.0	2682.8	2686.0	2682.8	2684.4	2704.8	2730.0	2728.4
27.5°	2739.4	2745.7	2725.3	2704.8	2709.5	2708.0	2712.7	2717.4	2733.1	2758.2	2752.0
30°	2788.1	2792.8	2775.5	2755.1	2752.0	2741.0	2755.1	2770.8	2788.1	2810.1	2805.4
32.5°	2868.2	2877.6	2855.6	2833.6	2819.5	2813.2	2824.2	2850.9	2874.5	2898.0	2888.6
35°	3001.7	3008.0	2987.6	2946.7	2921.6	2921.6	2931.0	2965.6	3003.3	3033.1	3022.1
37.5°	3190.2	3198.1	3161.9	3113.2	3075.5	3075.5	3088.1	3124.2	3180.8	3223.2	3207.5
40°	3419.5	3430.5	3385.0	3334.7	3298.6	3292.3	3308.0	3348.8	3402.3	3455.7	3438.4
42.5°	3696.0	3708.5	3648.9	3604.9	3576.6	3576.6	3584.5	3622.2	3670.9	3736.8	3732.1
45°	4049.4	4071.4	3989.7	3945.7	3919.0	3925.3	3930.0	3963.0	4007.0	4082.4	4079.2
47.5°	4470.4	4492.4	4406.0	4360.4	4355.7	4385.5	4366.7	4390.3	4413.8	4500.2	4475.1
50°	4947.9	4985.6	4925.9	4922.7	4932.2	4987.1	4943.2	4955.7	4929.0	4984.0	4951.0
52.5°	5532.2	5587.2	5576.2	5595.0	5700.3	5813.4	5712.8	5668.8	5568.3	5585.6	5527.5
55°	6240.6	6323.9	6339.6	6452.7	6691.4	6922.3	6708.7	6531.2	6317.6	6278.3	6217.0
57.5°	7046.4	7112.4	7187.8	7418.7	7864.8	8274.7	7864.8	7472.1	7135.9	7055.8	6999.3
60°	7913.5	7995.1	8067.4	8408.2	9071.1	9647.6	9058.5	8434.9	7990.4	7882.0	7787.8
62.5°	8844.9	8950.2	9000.4	9379.0	10151.8	10839.8	10162.8	9407.2	8914.0	8797.8	8703.5
65°	9738.7	9825.1	9881.6	10285.3	11023.5	11713.1	11073.8	10329.3	9821.9	9669.6	9594.2
67.5°	10154.9	10202.0	10340.3	10797.4	11576.5	12363.4	11708.4	10846.1	10279.0	10012.0	10015.1
70°	9545.5	9449.7	9782.7	10514.6	11642.4	12762.4	11793.2	10492.6	9798.4	9364.8	9468.5
72.5°	7376.3	7211.3	7789.4	9041.3	10888.5	12507.9	10963.9	9111.9	8149.1	7269.4	7487.8
75°	4013.3	3826.4	4624.3	6207.6	8683.1	10841.3	8882.6	6385.1	5148.9	3983.4	4242.6
77.5°	1132.5	1061.8	1705.8	3003.3	5222.8	7611.9	5423.8	3069.3	2023.1	1200.1	1333.6
80°	347.1	336.1	455.5	904.8	2217.9	3645.7	2131.5	915.7	579.6	366.0	386.4
82.5°	205.8	188.5	226.2	329.9	565.5	1145.1	549.8	344.0	276.5	185.3	201.1
85°	117.8	110.0	133.5	160.2	190.1	243.5	158.6	163.4	147.7	99.0	103.7
87.5°	48.7	44.0	51.8	50.3	44.0	56.5	42.4	50.3	59.7	39.3	36.1
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)