

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: P885182

Luminaire Tested: **NAV-SB6B-835-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885182
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-SB6B-835-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29170 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

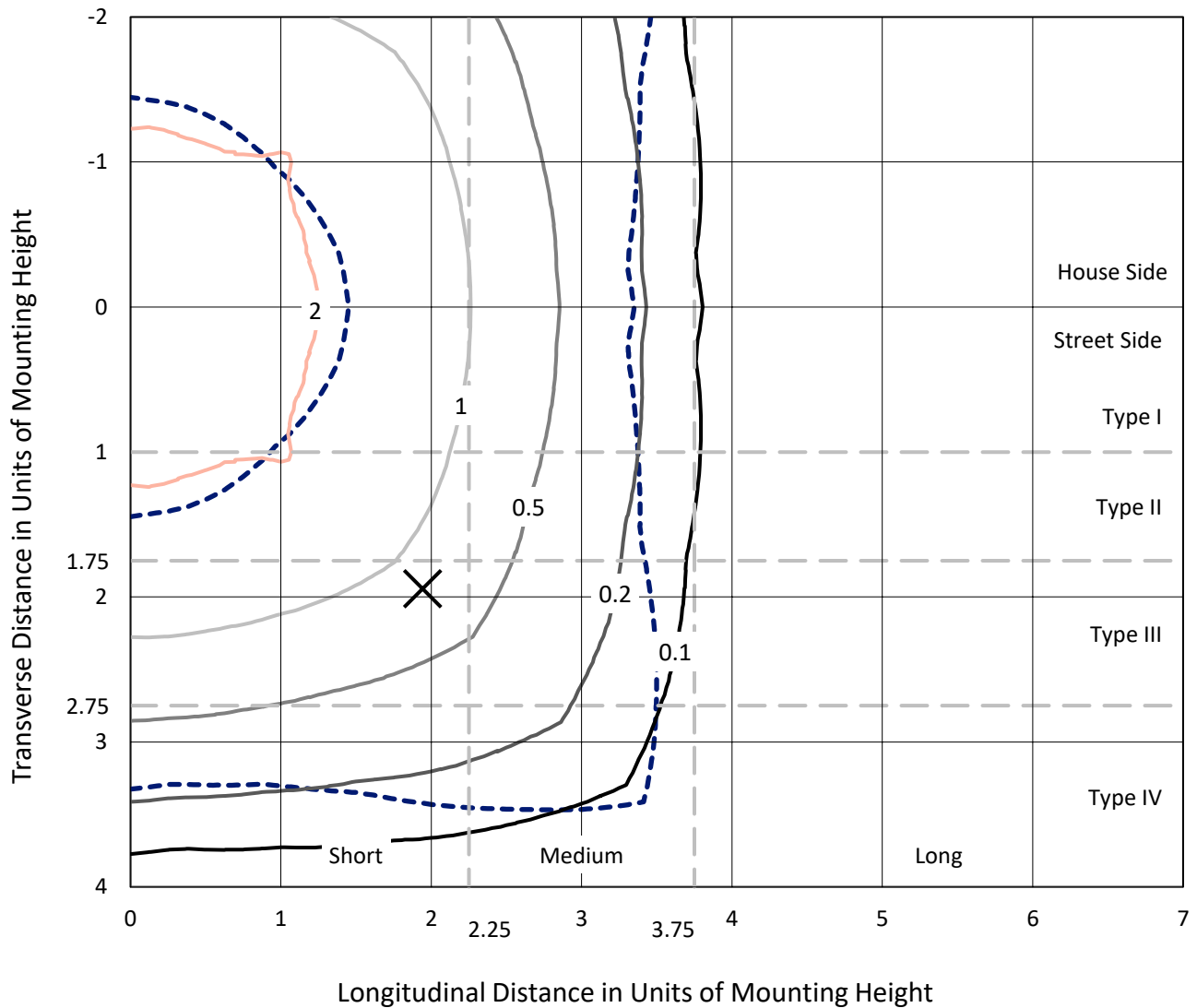
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

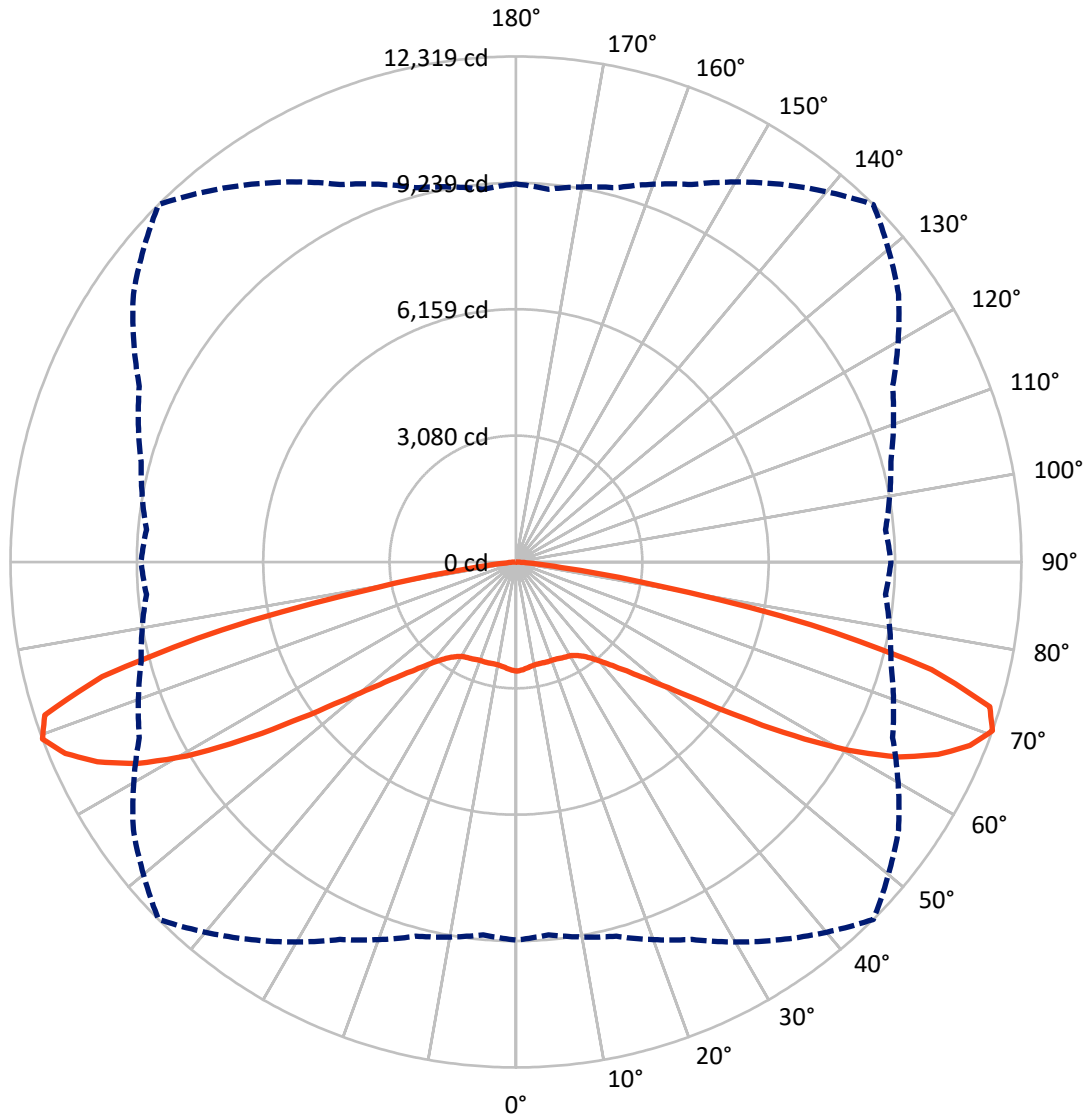
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	14585.0	0.0	14585.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14585.0	0.0	14585.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29170.0	0.0	29170.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.5	0.8
10°-20°	726.8	2.5
20°-30°	1209.5	4.1
30°-40°	1829.1	6.3
40°-50°	3039.6	10.4
50°-60°	5735.5	19.7
60°-70°	9684.7	33.2
70°-80°	6363.8	21.8
80°-90°	333.4	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°	29170.0	100.0
0°-180°	29170.0	100.0



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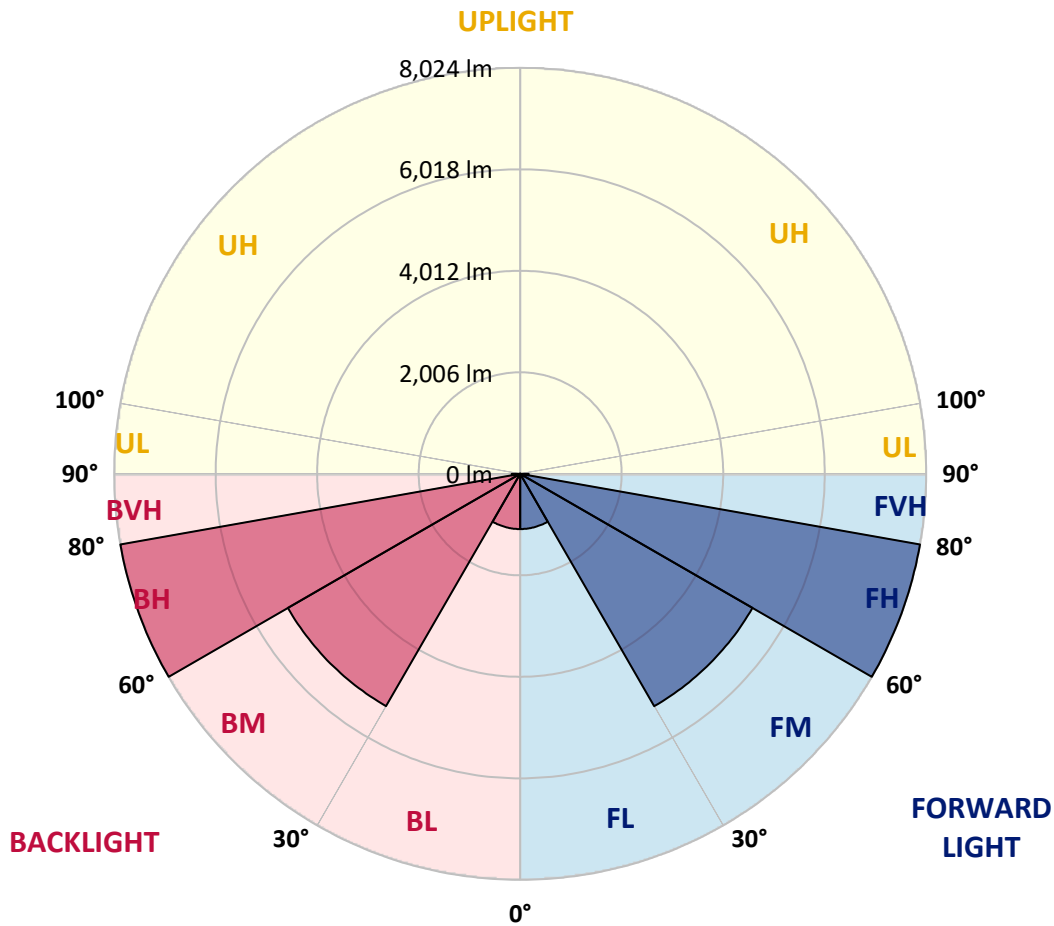
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.9	3.7			
FM (30°-60°)	5302.1	18.2			
FH (60°-80°)	8024.3	27.5			G4/12000
FVH (80°-90°)	166.7	0.6			G2/225
BL (0°-30°)	1091.9	3.7	B3/2500		
BM (30°-60°)	5302.1	18.2	B4/8500		
BH (60°-80°)	8024.3	27.5	B5		G4/12000
BVH (80°-90°)	166.7	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°	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9	2660.9
2.5°	2644.2	2651.8	2648.8	2642.7	2642.7	2638.1	2642.7	2645.7	2650.3	2653.3	2651.8
5°	2609.3	2615.4	2613.9	2609.3	2610.9	2606.3	2609.3	2613.9	2616.9	2618.4	2618.4
7.5°	2579.0	2585.1	2582.1	2574.5	2574.5	2569.9	2571.4	2576.0	2580.5	2582.1	2582.1
10°	2571.4	2577.5	2568.4	2556.3	2551.7	2545.7	2547.2	2551.7	2560.8	2565.4	2565.4
12.5°	2574.5	2579.0	2569.9	2551.7	2547.2	2541.1	2541.1	2545.7	2557.8	2563.9	2565.4
15°	2583.6	2588.1	2574.5	2554.8	2550.2	2545.7	2544.1	2550.2	2563.9	2574.5	2576.0
17.5°	2600.2	2604.8	2583.6	2556.3	2550.2	2551.7	2550.2	2554.8	2576.0	2595.7	2595.7
20°	2615.4	2618.4	2589.6	2556.3	2550.2	2551.7	2550.2	2559.3	2586.6	2613.9	2615.4
22.5°	2620.0	2623.0	2595.7	2566.9	2562.3	2563.9	2562.3	2571.4	2597.2	2624.5	2624.5
25°	2621.5	2626.0	2604.8	2582.1	2589.6	2592.7	2589.6	2591.1	2610.9	2635.1	2633.6
27.5°	2644.2	2650.3	2630.6	2610.9	2615.4	2613.9	2618.4	2623.0	2638.1	2662.4	2656.3
30°	2691.2	2695.8	2679.1	2659.4	2656.3	2645.7	2659.4	2674.5	2691.2	2712.4	2707.9
32.5°	2768.5	2777.6	2756.4	2735.2	2721.5	2715.5	2726.1	2751.9	2774.6	2797.3	2788.3
35°	2897.4	2903.5	2883.8	2844.3	2820.1	2820.1	2829.2	2862.5	2898.9	2927.7	2917.1
37.5°	3079.4	3086.9	3052.1	3005.1	2968.7	2968.7	2980.8	3015.7	3070.3	3111.2	3096.0
40°	3300.7	3311.3	3267.4	3218.8	3184.0	3177.9	3193.1	3232.5	3284.0	3335.6	3318.9
42.5°	3567.6	3579.7	3522.1	3479.6	3452.3	3452.3	3459.9	3496.3	3543.3	3607.0	3602.4
45°	3908.7	3929.9	3851.1	3808.6	3782.9	3788.9	3793.5	3825.3	3867.8	3940.5	3937.5
47.5°	4315.0	4336.3	4252.9	4208.9	4204.4	4233.2	4215.0	4237.7	4260.5	4343.8	4319.6
50°	4776.0	4812.3	4754.7	4751.7	4760.8	4813.9	4771.4	4783.5	4757.8	4810.8	4779.0
52.5°	5340.0	5393.0	5382.4	5400.6	5502.2	5611.4	5514.3	5471.9	5374.8	5391.5	5335.4
55°	6023.8	6104.1	6119.3	6228.5	6458.9	6681.8	6475.6	6304.3	6098.1	6060.2	6001.0
57.5°	6801.6	6865.3	6938.0	7160.9	7591.5	7987.2	7591.5	7212.5	6888.0	6810.7	6756.1
60°	7638.5	7717.3	7787.1	8116.1	8755.9	9312.4	8743.8	8141.9	7712.8	7608.2	7517.2
62.5°	8537.6	8639.2	8687.7	9053.1	9799.1	10463.1	9809.7	9080.4	8604.3	8492.1	8401.1
65°	9400.3	9483.7	9538.3	9927.9	10640.5	11306.1	10689.1	9970.4	9480.7	9333.6	9260.8
67.5°	9802.1	9847.6	9981.0	10422.2	11174.2	11933.8	11301.6	10469.2	9921.9	9664.1	9667.1
70°	9213.8	9121.3	9442.8	10149.3	11237.9	12318.9	11383.5	10128.1	9457.9	9039.4	9139.5
72.5°	7120.0	6960.8	7518.7	8727.1	10510.1	12073.3	10582.9	8795.3	7865.9	7016.9	7227.6
75°	3873.8	3693.4	4463.6	5991.9	8381.4	10464.7	8574.0	6163.3	4970.0	3845.0	4095.2
77.5°	1093.2	1024.9	1646.6	2898.9	5041.3	7347.4	5235.4	2962.6	1952.8	1158.4	1287.2
80°	335.1	324.5	439.7	873.3	2140.8	3519.0	2057.5	883.9	559.5	353.3	373.0
82.5°	198.6	181.9	218.3	318.4	545.8	1105.3	530.7	332.0	266.8	178.9	194.1
85°	113.7	106.1	128.9	154.7	183.5	235.0	153.1	157.7	142.5	95.5	100.1
87.5°	47.0	42.5	50.0	48.5	42.5	54.6	40.9	48.5	57.6	37.9	34.9
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)