

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: P883932

Luminaire Tested: **NAV-SB4C-735-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883932
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-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 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: 30700 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

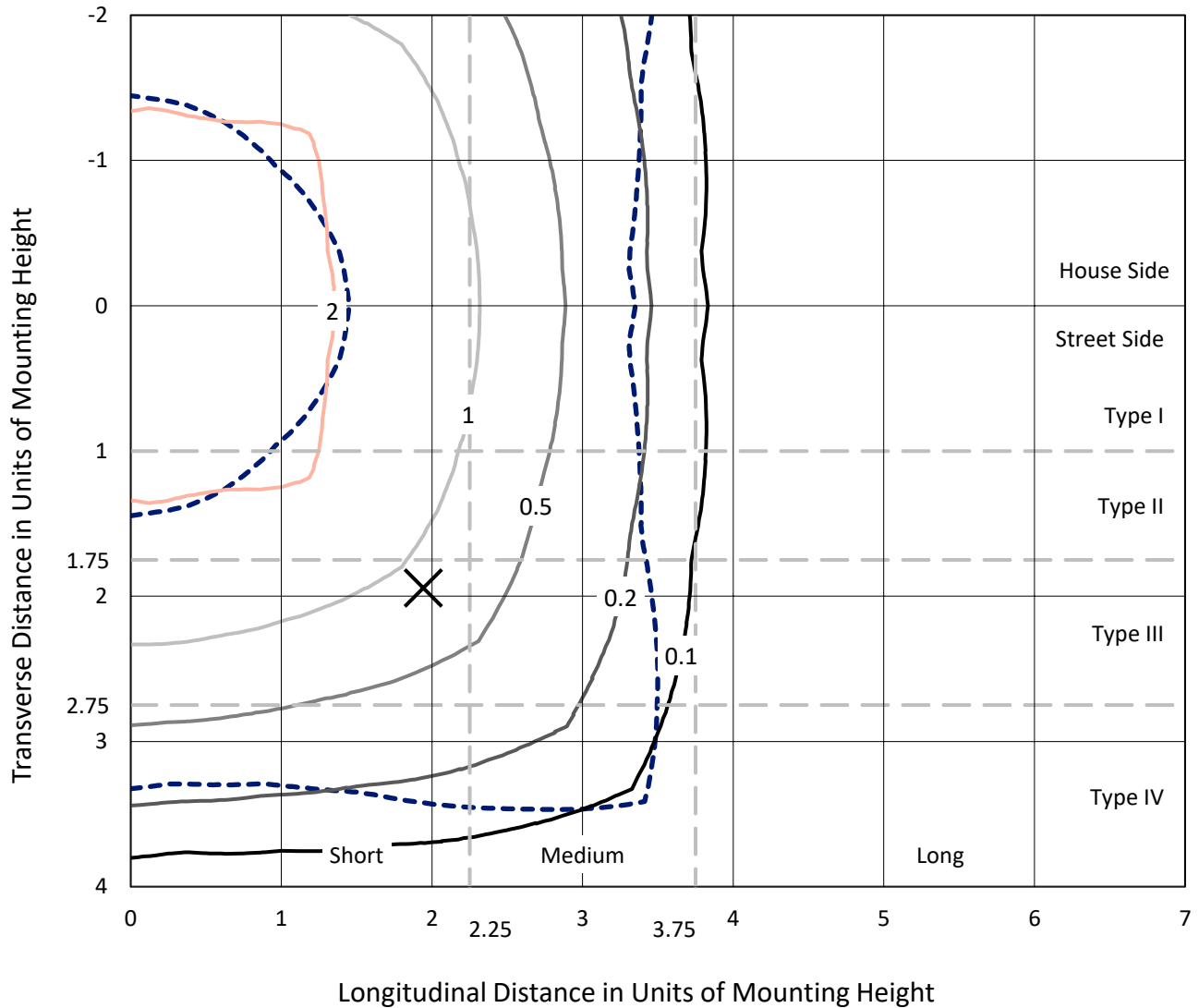
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

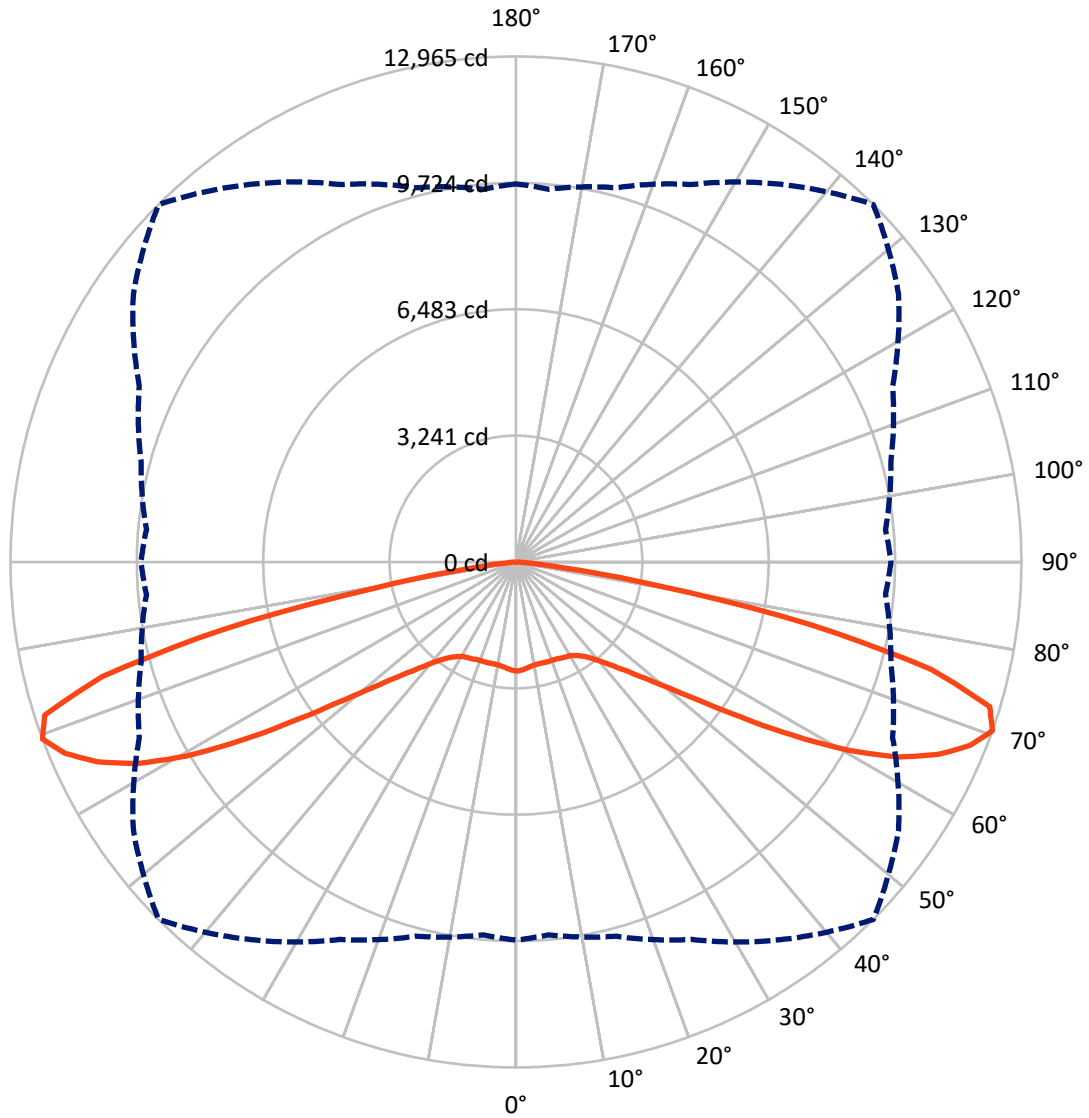
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	15350.0	0.0	15350.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15350.0	0.0	15350.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30700.0	0.0	30700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	0.8
10°-20°	764.9	2.5
20°-30°	1272.9	4.1
30°-40°	1925.1	6.3
40°-50°	3199.0	10.4
50°-60°	6036.4	19.7
60°-70°	10192.7	33.2
70°-80°	6697.6	21.8
80°-90°	350.9	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°	30700.0	100.0
0°-180°	30700.0	100.0

Coefficient of Utilization



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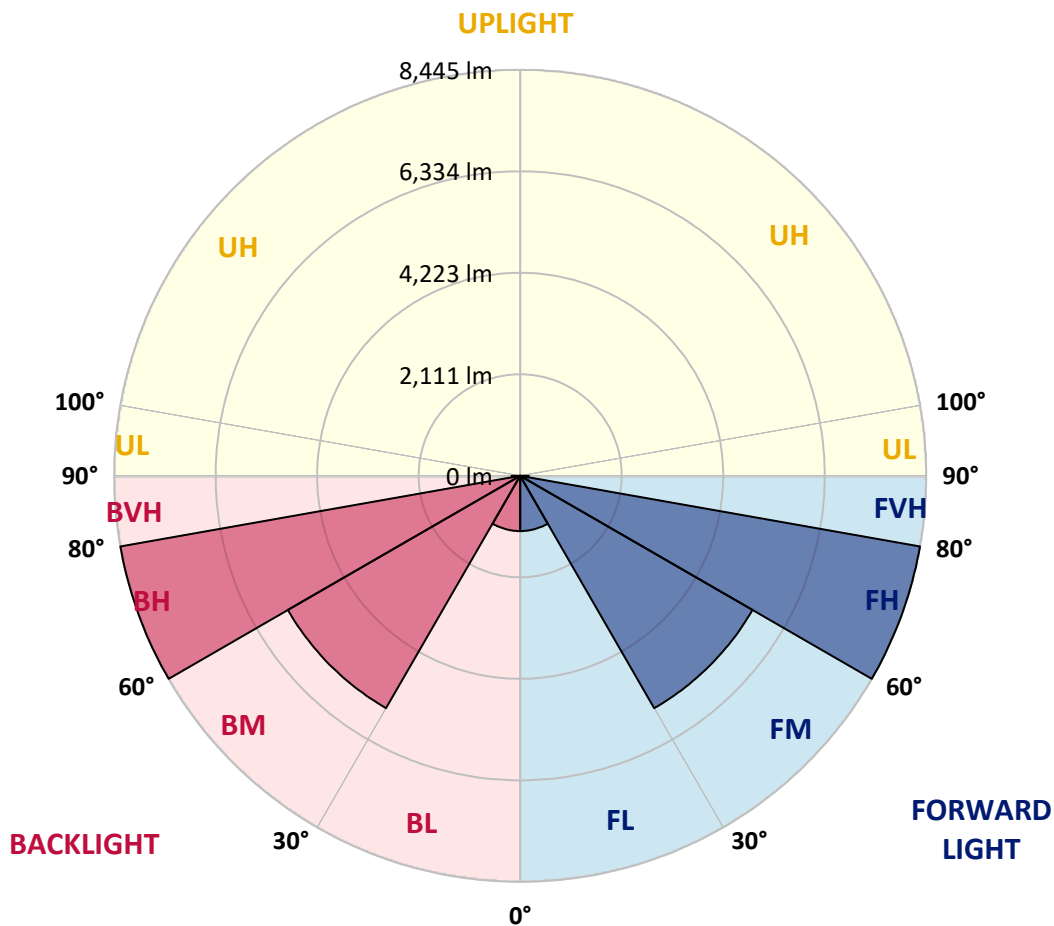
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.2	3.7			
FM (30°-60°)	5580.2	18.2			
FH (60°-80°)	8445.2	27.5			G4/12000
FVH (80°-90°)	175.4	0.6			G2/225
BL (0°-30°)	1149.2	3.7	B3/2500		
BM (30°-60°)	5580.2	18.2	B4/8500		
BH (60°-80°)	8445.2	27.5	B5		G4/12000
BVH (80°-90°)	175.4	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°	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5	2800.5
2.5°	2782.9	2790.9	2787.7	2781.3	2781.3	2776.5	2781.3	2784.5	2789.3	2792.5	2790.9
5°	2746.2	2752.6	2751.0	2746.2	2747.8	2743.0	2746.2	2751.0	2754.2	2755.8	2755.8
7.5°	2714.3	2720.7	2717.5	2709.5	2709.5	2704.7	2706.3	2711.1	2715.9	2717.5	2717.5
10°	2706.3	2712.7	2703.1	2690.4	2685.6	2679.2	2680.8	2685.6	2695.1	2699.9	2699.9
12.5°	2709.5	2714.3	2704.7	2685.6	2680.8	2674.4	2674.4	2679.2	2692.0	2698.3	2699.9
15°	2719.1	2723.9	2709.5	2688.8	2684.0	2679.2	2677.6	2684.0	2698.3	2709.5	2711.1
17.5°	2736.6	2741.4	2719.1	2690.4	2684.0	2685.6	2684.0	2688.8	2711.1	2731.8	2731.8
20°	2752.6	2755.8	2725.5	2690.4	2684.0	2685.6	2684.0	2693.5	2722.3	2751.0	2752.6
22.5°	2757.4	2760.6	2731.8	2701.5	2696.7	2698.3	2696.7	2706.3	2733.4	2762.2	2762.2
25°	2759.0	2763.8	2741.4	2717.5	2725.5	2728.7	2725.5	2727.1	2747.8	2773.3	2771.7
27.5°	2782.9	2789.3	2768.5	2747.8	2752.6	2751.0	2755.8	2760.6	2776.5	2802.1	2795.7
30°	2832.4	2837.2	2819.6	2798.9	2795.7	2784.5	2798.9	2814.8	2832.4	2854.7	2849.9
32.5°	2913.8	2923.3	2901.0	2878.6	2864.3	2857.9	2869.1	2896.2	2920.1	2944.1	2934.5
35°	3049.4	3055.8	3035.0	2993.5	2968.0	2968.0	2977.6	3012.7	3051.0	3081.3	3070.1
37.5°	3240.9	3248.9	3212.1	3162.7	3124.4	3124.4	3137.2	3173.9	3231.3	3274.4	3258.4
40°	3473.8	3485.0	3438.7	3387.7	3351.0	3344.6	3360.5	3402.0	3456.3	3510.5	3493.0
42.5°	3754.7	3767.5	3706.8	3662.1	3633.4	3633.4	3641.4	3679.7	3729.2	3796.2	3791.4
45°	4113.7	4136.1	4053.1	4008.4	3981.3	3987.7	3992.4	4026.0	4070.6	4147.2	4144.0
47.5°	4541.4	4563.7	4475.9	4429.7	4424.9	4455.2	4436.1	4460.0	4483.9	4571.7	4546.2
50°	5026.5	5064.8	5004.1	5000.9	5010.5	5066.4	5021.7	5034.4	5007.3	5063.2	5029.7
52.5°	5620.1	5675.9	5664.7	5683.9	5790.8	5905.7	5803.6	5758.9	5656.8	5674.3	5615.3
55°	6339.7	6424.3	6440.3	6555.1	6797.7	7032.3	6815.2	6634.9	6417.9	6378.0	6315.8
57.5°	7158.3	7225.3	7301.9	7536.5	7989.7	8406.2	7989.7	7590.8	7249.3	7167.9	7110.5
60°	8039.1	8122.1	8195.5	8541.8	9215.2	9800.8	9202.4	8568.9	8117.3	8007.2	7911.5
62.5°	8985.4	9092.3	9143.4	9527.9	10313.0	11011.9	10324.2	9556.7	9055.6	8937.5	8841.8
65°	9893.4	9981.1	10038.6	10448.7	11198.6	11899.2	11249.7	10493.3	9977.9	9823.1	9746.6
67.5°	10316.2	10364.1	10504.5	10968.9	11760.3	12559.8	11894.4	11018.3	10442.3	10171.0	10174.2
70°	9697.1	9599.7	9938.0	10681.6	11827.3	12965.1	11980.5	10659.3	9954.0	9513.6	9618.9
72.5°	7493.4	7325.9	7913.1	9184.9	11061.4	12706.6	11138.0	9256.7	8278.5	7384.9	7606.7
75°	4077.0	3887.1	4697.7	6306.2	8821.0	11013.5	9023.7	6486.5	5230.7	4046.7	4310.0
77.5°	1150.5	1078.7	1732.9	3051.0	5305.7	7732.8	5510.0	3118.0	2055.3	1219.1	1354.8
80°	352.7	341.5	462.8	919.1	2253.1	3703.6	2165.4	930.3	588.8	371.8	392.5
82.5°	209.0	191.5	229.8	335.1	574.5	1163.3	558.5	349.5	280.8	188.3	204.2
85°	119.7	111.7	135.6	162.8	193.1	247.3	161.2	166.0	150.0	100.5	105.3
87.5°	49.5	44.7	52.7	51.1	44.7	57.4	43.1	51.1	60.6	39.9	36.7
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)