

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: P884582

Luminaire Tested: **NAV-SB5C-722-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884582
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-SB5C-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 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: 30632 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

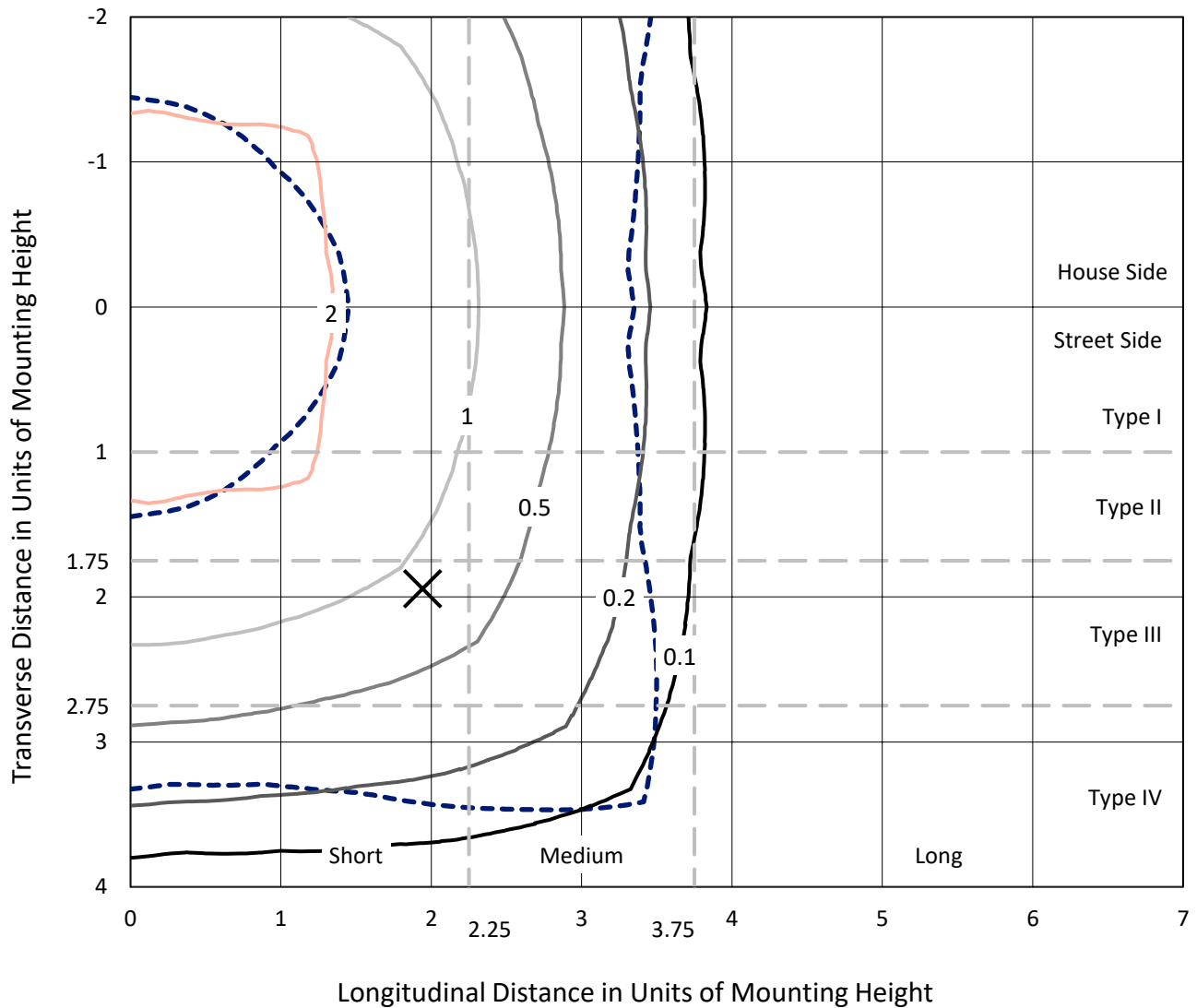
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

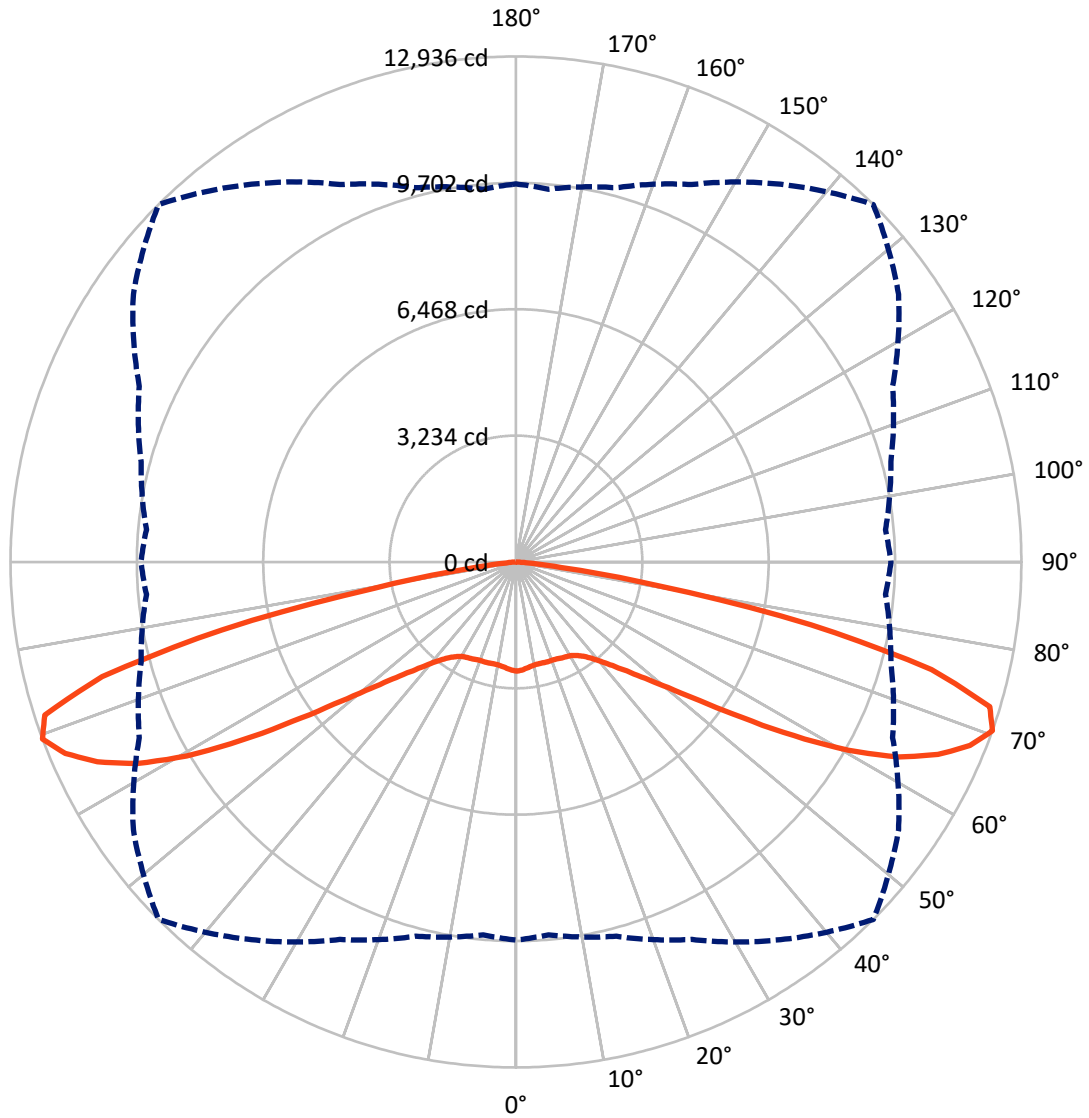
✕ Max cd
 - - - 1/2 Max cd



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	15316.0	0.0	15316.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15316.0	0.0	15316.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30632.0	0.0	30632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	0.8
10°-20°	763.2	2.5
20°-30°	1270.1	4.1
30°-40°	1920.8	6.3
40°-50°	3191.9	10.4
50°-60°	6023.0	19.7
60°-70°	10170.1	33.2
70°-80°	6682.8	21.8
80°-90°	350.1	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°	30632.0	100.0
0°-180°	30632.0	100.0

Coefficient of Utilization



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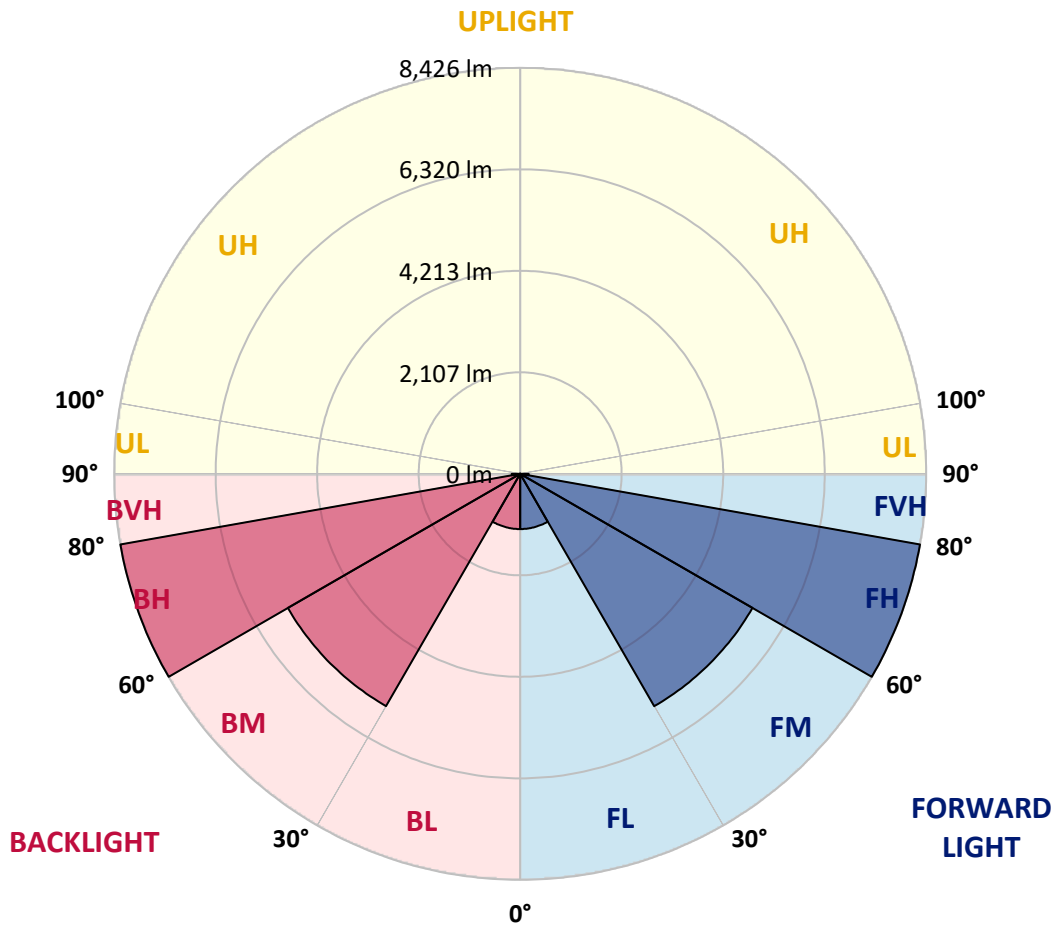
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.6	3.7			
FM (30°-60°)	5567.9	18.2			
FH (60°-80°)	8426.4	27.5			G4/12000
FVH (80°-90°)	175.1	0.6			G2/225
BL (0°-30°)	1146.6	3.7	B3/2500		
BM (30°-60°)	5567.9	18.2	B4/8500		
BH (60°-80°)	8426.4	27.5	B5		G4/12000
BVH (80°-90°)	175.1	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°	2794.3	2794.3	2794.3	2794.3	2794.3	2794.3	2794.3	2794.3	2794.3	2794.3	2794.3
2.5°	2776.7	2784.7	2781.5	2775.1	2775.1	2770.4	2775.1	2778.3	2783.1	2786.3	2784.7
5°	2740.1	2746.5	2744.9	2740.1	2741.7	2736.9	2740.1	2744.9	2748.1	2749.7	2749.7
7.5°	2708.3	2714.6	2711.5	2703.5	2703.5	2698.7	2700.3	2705.1	2709.9	2711.5	2711.5
10°	2700.3	2706.7	2697.1	2684.4	2679.6	2673.3	2674.8	2679.6	2689.2	2693.9	2693.9
12.5°	2703.5	2708.3	2698.7	2679.6	2674.8	2668.5	2668.5	2673.3	2686.0	2692.4	2693.9
15°	2713.1	2717.8	2703.5	2682.8	2678.0	2673.3	2671.7	2678.0	2692.4	2703.5	2705.1
17.5°	2730.6	2735.3	2713.1	2684.4	2678.0	2679.6	2678.0	2682.8	2705.1	2725.8	2725.8
20°	2746.5	2749.7	2719.4	2684.4	2678.0	2679.6	2678.0	2687.6	2716.2	2744.9	2746.5
22.5°	2751.3	2754.5	2725.8	2695.5	2690.8	2692.4	2690.8	2700.3	2727.4	2756.0	2756.0
25°	2752.9	2757.6	2735.3	2711.5	2719.4	2722.6	2719.4	2721.0	2741.7	2767.2	2765.6
27.5°	2776.7	2783.1	2762.4	2741.7	2746.5	2744.9	2749.7	2754.5	2770.4	2795.8	2789.5
30°	2826.1	2830.9	2813.4	2792.7	2789.5	2778.3	2792.7	2808.6	2826.1	2848.4	2843.6
32.5°	2907.3	2916.9	2894.6	2872.3	2857.9	2851.6	2862.7	2889.8	2913.7	2937.6	2928.0
35°	3042.6	3049.0	3028.3	2986.9	2961.4	2961.4	2971.0	3006.0	3044.2	3074.5	3063.3
37.5°	3233.7	3241.7	3205.0	3155.7	3117.5	3117.5	3130.2	3166.8	3224.1	3267.1	3251.2
40°	3466.2	3477.3	3431.1	3380.2	3343.6	3337.2	3353.1	3394.5	3448.6	3502.8	3485.3
42.5°	3746.4	3759.1	3698.6	3654.0	3625.4	3625.4	3633.3	3671.5	3720.9	3787.8	3783.0
45°	4104.6	4126.9	4044.1	3999.5	3972.5	3978.8	3983.6	4017.0	4061.6	4138.0	4134.9
47.5°	4531.3	4553.6	4466.0	4419.9	4415.1	4445.3	4426.2	4450.1	4474.0	4561.6	4536.1
50°	5015.3	5053.5	4993.0	4989.9	4999.4	5055.1	5010.6	5023.3	4996.2	5051.9	5018.5
52.5°	5607.6	5663.3	5652.2	5671.3	5778.0	5892.6	5790.7	5746.1	5644.2	5661.8	5602.8
55°	6325.7	6410.1	6426.0	6540.6	6782.6	7016.7	6800.2	6620.2	6403.7	6363.9	6301.8
57.5°	7142.5	7209.3	7285.8	7519.8	7972.0	8387.5	7972.0	7573.9	7233.2	7152.0	7094.7
60°	8021.3	8104.1	8177.4	8522.9	9194.8	9779.1	9182.0	8549.9	8099.4	7989.5	7894.0
62.5°	8965.5	9072.2	9123.1	9506.8	10290.2	10987.6	10301.3	9535.5	9035.6	8917.7	8822.2
65°	9871.4	9959.0	10016.3	10425.5	11173.8	11872.8	11224.8	10470.1	9955.8	9801.4	9725.0
67.5°	10293.4	10341.1	10481.2	10944.6	11734.3	12532.0	11868.0	10993.9	10419.1	10148.5	10151.7
70°	9675.6	9578.5	9916.0	10658.0	11801.2	12936.4	11954.0	10635.7	9931.9	9492.5	9597.6
72.5°	7476.8	7309.6	7895.6	9164.5	11036.9	12678.4	11113.3	9236.2	8260.2	7368.6	7589.9
75°	4068.0	3878.5	4687.3	6292.2	8801.5	10989.1	9003.7	6472.2	5219.1	4037.7	4300.4
77.5°	1148.0	1076.3	1729.1	3044.2	5294.0	7715.6	5497.8	3111.1	2050.7	1216.4	1351.8
80°	351.9	340.7	461.7	917.1	2248.1	3695.4	2160.6	928.2	587.5	371.0	391.7
82.5°	208.6	191.1	229.3	334.4	573.2	1160.7	557.3	348.7	280.2	187.9	203.8
85°	119.4	111.5	135.3	162.4	192.7	246.8	160.8	165.6	149.7	100.3	105.1
87.5°	49.4	44.6	52.5	50.9	44.6	57.3	43.0	50.9	60.5	39.8	36.6
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)