

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: P884652

Luminaire Tested: **NAV-SB5C-827-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884652  
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-827-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

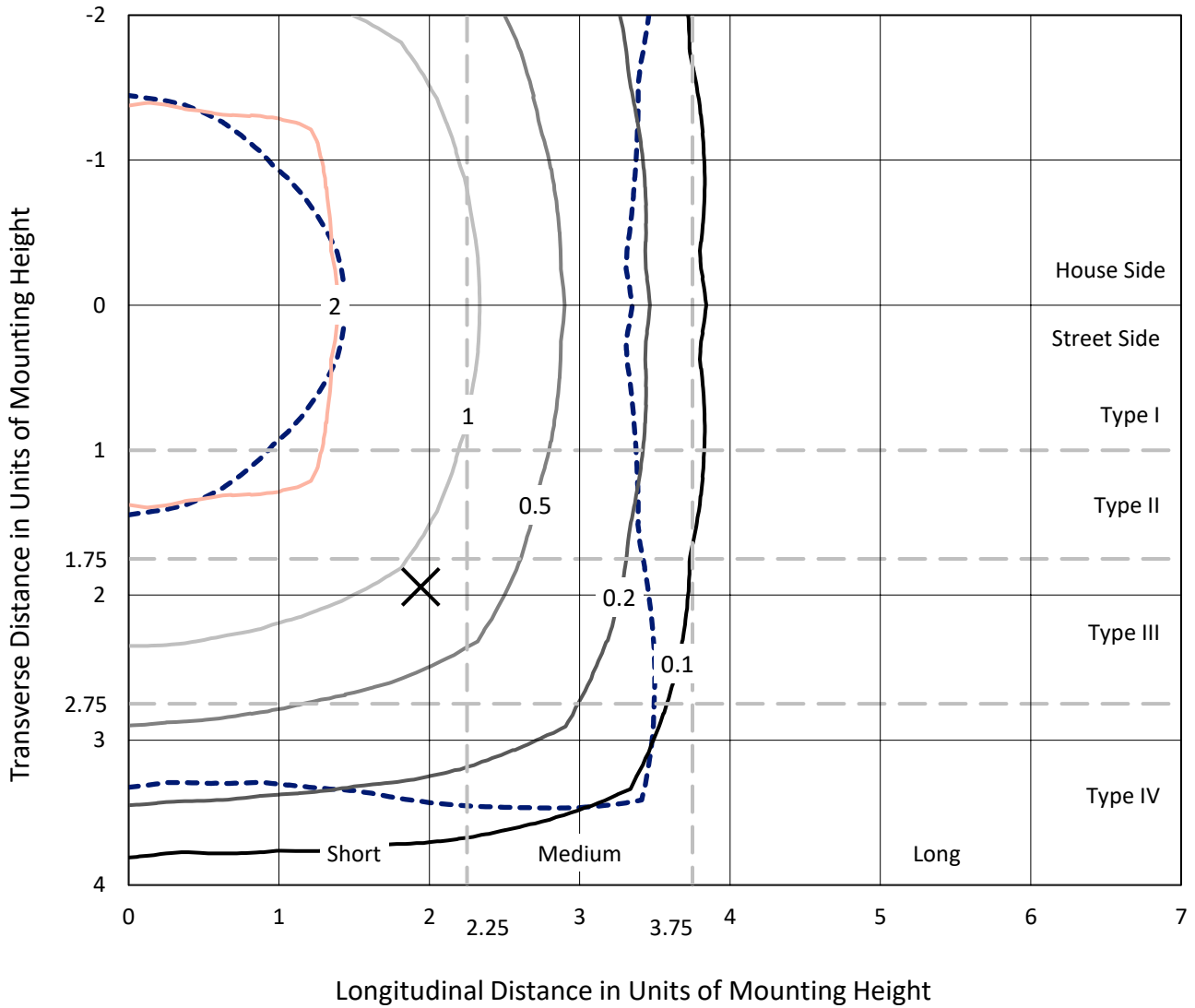
Lumens per Lamp: N/A  
Luminaire Lumens: 31232 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): 120.0  
Input Current (Ain): 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

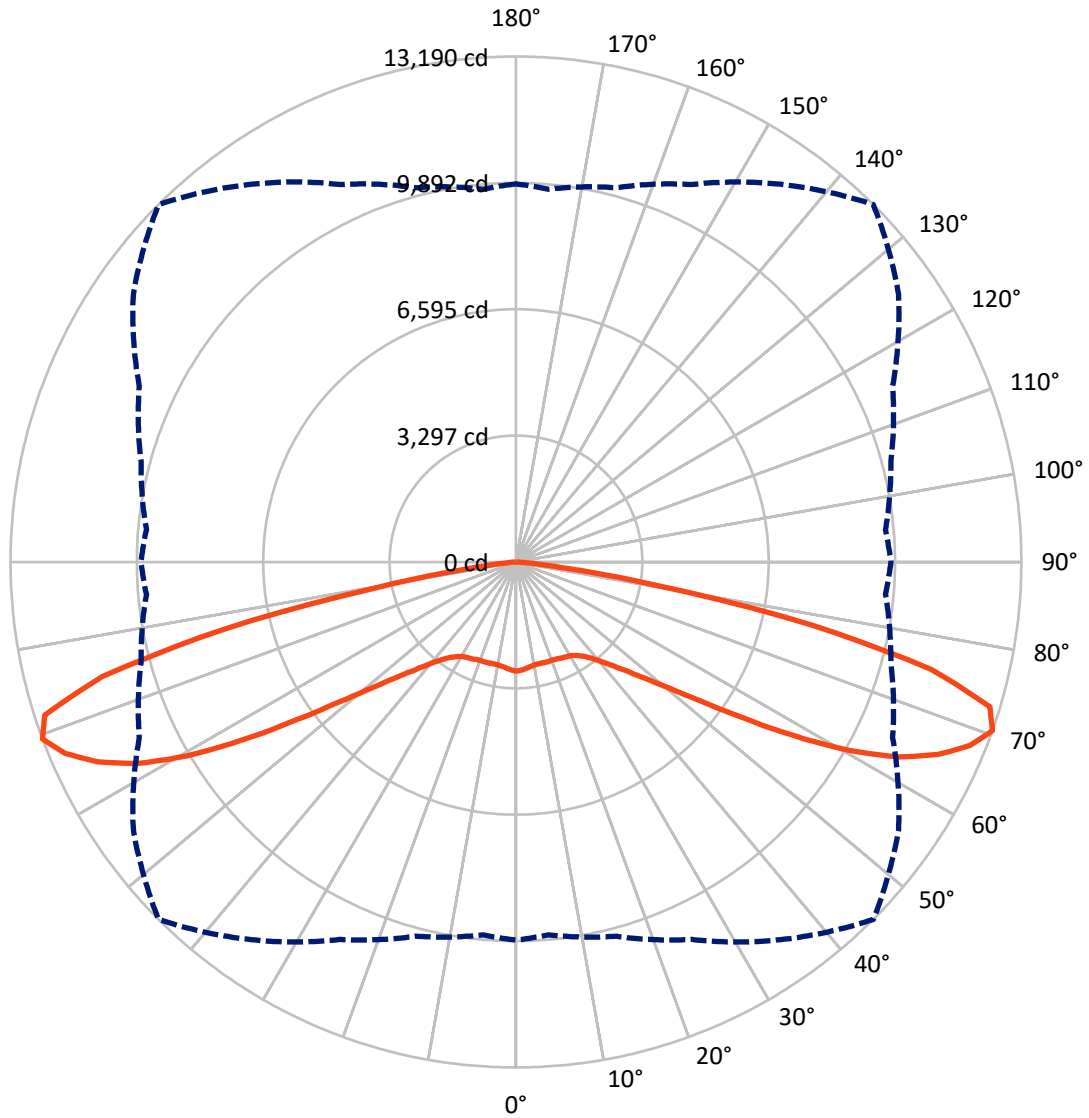
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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
<b>House Side</b>	Lumens	15616.0	0.0	15616.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15616.0	0.0	15616.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31232.0	0.0	31232.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.0	0.8
10°-20°	778.2	2.5
20°-30°	1295.0	4.1
30°-40°	1958.4	6.3
40°-50°	3254.4	10.4
50°-60°	6141.0	19.7
60°-70°	10369.3	33.2
70°-80°	6813.7	21.8
80°-90°	357.0	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°	31232.0	100.0
0°-180°	31232.0	100.0



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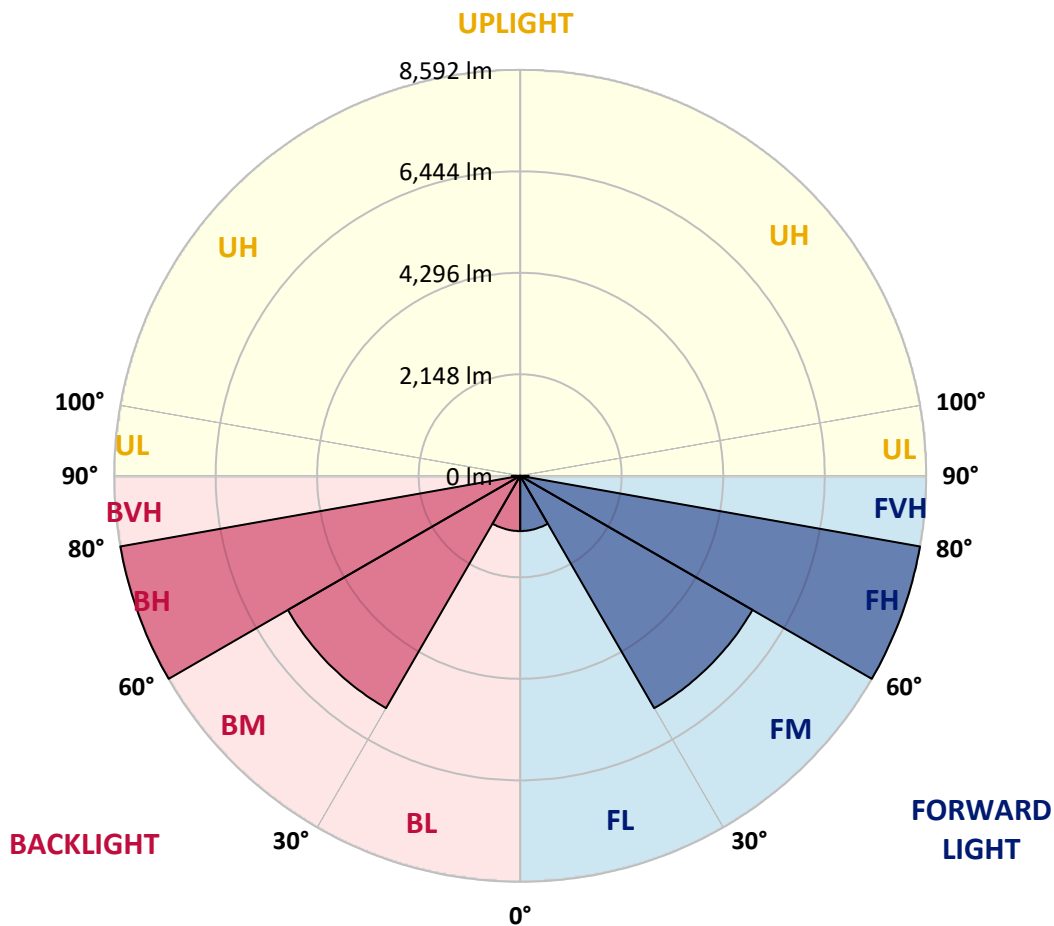
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.1	3.7			
FM (30°-60°)	5676.9	18.2			
FH (60°-80°)	8591.5	27.5			G4/12000
FVH (80°-90°)	178.5	0.6			G2/225
BL (0°-30°)	1169.1	3.7	B3/2500		
BM (30°-60°)	5676.9	18.2	B4/8500		
BH (60°-80°)	8591.5	27.5	B5		G4/12000
BVH (80°-90°)	178.5	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°	2849.0	2849.0	2849.0	2849.0	2849.0	2849.0	2849.0	2849.0	2849.0	2849.0	2849.0
2.5°	2831.1	2839.2	2836.0	2829.5	2829.5	2824.6	2829.5	2832.8	2837.6	2840.9	2839.2
5°	2793.8	2800.3	2798.7	2793.8	2795.4	2790.5	2793.8	2798.7	2801.9	2803.5	2803.5
7.5°	2761.3	2767.8	2764.6	2756.5	2756.5	2751.6	2753.2	2758.1	2762.9	2764.6	2764.6
10°	2753.2	2759.7	2750.0	2737.0	2732.1	2725.6	2727.2	2732.1	2741.8	2746.7	2746.7
12.5°	2756.5	2761.3	2751.6	2732.1	2727.2	2720.7	2720.7	2725.6	2738.6	2745.1	2746.7
15°	2766.2	2771.1	2756.5	2735.4	2730.5	2725.6	2724.0	2730.5	2745.1	2756.5	2758.1
17.5°	2784.1	2788.9	2766.2	2737.0	2730.5	2732.1	2730.5	2735.4	2758.1	2779.2	2779.2
20°	2800.3	2803.5	2772.7	2737.0	2730.5	2732.1	2730.5	2740.2	2769.4	2798.7	2800.3
22.5°	2805.2	2808.4	2779.2	2748.3	2743.5	2745.1	2743.5	2753.2	2780.8	2810.0	2810.0
25°	2806.8	2811.7	2788.9	2764.6	2772.7	2775.9	2772.7	2774.3	2795.4	2821.4	2819.8
27.5°	2831.1	2837.6	2816.5	2795.4	2800.3	2798.7	2803.5	2808.4	2824.6	2850.6	2844.1
30°	2881.5	2886.3	2868.5	2847.4	2844.1	2832.8	2847.4	2863.6	2881.5	2904.2	2899.3
32.5°	2964.2	2974.0	2951.3	2928.5	2913.9	2907.4	2918.8	2946.4	2970.7	2995.1	2985.3
35°	3102.2	3108.7	3087.6	3045.4	3019.4	3019.4	3029.2	3064.9	3103.9	3134.7	3123.3
37.5°	3297.0	3305.1	3267.8	3217.5	3178.5	3178.5	3191.5	3228.9	3287.3	3331.1	3314.9
40°	3534.0	3545.4	3498.3	3446.4	3409.0	3402.6	3418.8	3461.0	3516.2	3571.4	3553.5
42.5°	3819.8	3832.7	3771.1	3725.6	3696.4	3696.4	3704.5	3743.5	3793.8	3862.0	3857.1
45°	4185.0	4207.7	4123.3	4077.9	4050.3	4056.8	4061.6	4095.7	4141.2	4219.1	4215.9
47.5°	4620.1	4642.8	4553.5	4506.4	4501.6	4532.4	4512.9	4537.3	4561.6	4650.9	4624.9
50°	5113.6	5152.5	5090.8	5087.6	5097.3	5154.2	5108.7	5121.7	5094.1	5150.9	5116.8
52.5°	5717.5	5774.3	5762.9	5782.4	5891.2	6008.0	5904.1	5858.7	5754.8	5772.6	5712.6
55°	6449.6	6535.6	6551.9	6668.7	6915.5	7154.1	6933.3	6749.9	6529.1	6488.5	6425.2
57.5°	7282.4	7350.5	7428.5	7667.1	8128.1	8551.8	8128.1	7722.3	7374.9	7292.1	7233.7
60°	8178.5	8262.9	8337.5	8689.8	9374.9	9970.6	9361.9	8717.4	8258.0	8146.0	8048.6
62.5°	9141.1	9249.9	9301.8	9693.0	10491.7	11202.8	10503.1	9722.3	9212.5	9092.4	8995.0
65°	10064.8	10154.1	10212.5	10629.7	11392.7	12105.4	11444.6	10675.2	10150.8	9993.4	9915.4
67.5°	10495.0	10543.7	10686.5	11158.9	11964.1	12777.4	12100.5	11209.3	10623.2	10347.3	10350.5
70°	9865.1	9766.1	10110.3	10866.7	12032.3	13189.8	12188.1	10844.0	10126.5	9678.4	9785.6
72.5°	7623.3	7452.8	8050.2	9344.0	11253.1	12926.8	11331.0	9417.1	8422.0	7512.9	7738.5
75°	4147.7	3954.5	4779.2	6415.5	8973.9	11204.4	9180.1	6598.9	5321.4	4116.8	4384.7
77.5°	1170.4	1097.4	1763.0	3103.9	5397.7	7866.8	5605.4	3172.0	2090.9	1240.2	1378.2
80°	358.8	347.4	470.8	935.1	2292.2	3767.8	2202.9	946.4	599.0	378.2	399.3
82.5°	212.7	194.8	233.8	340.9	584.4	1183.4	568.2	355.5	285.7	191.6	207.8
85°	121.8	113.6	138.0	165.6	196.4	251.6	164.0	168.8	152.6	102.3	107.1
87.5°	50.3	45.5	53.6	51.9	45.5	58.4	43.8	51.9	61.7	40.6	37.3
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)