

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: P885102

Luminaire Tested: **NAV-SB6B-727-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885102  
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-727-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

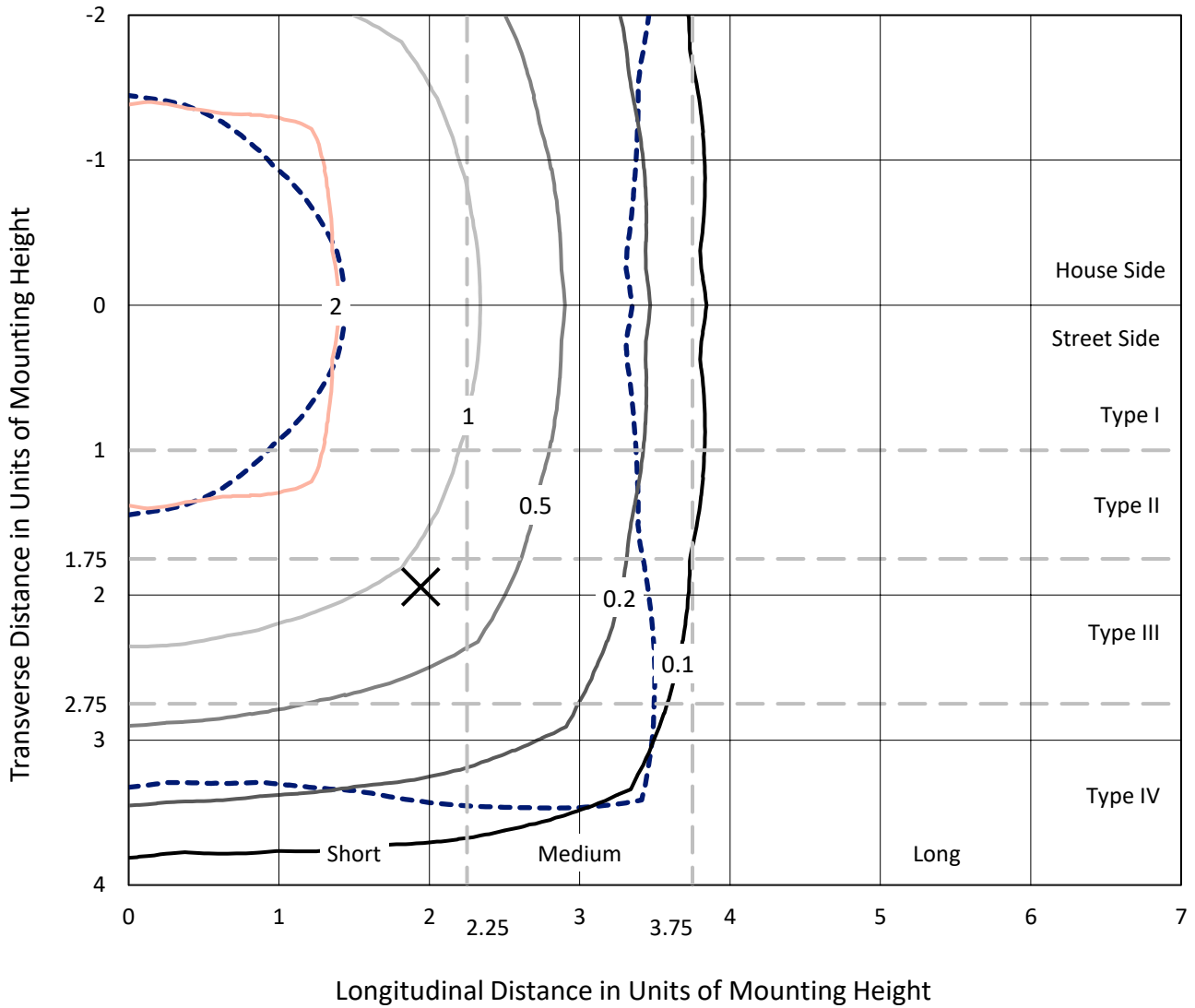
Lumens per Lamp: N/A  
Luminaire Lumens: 31331 lumens  
Efficiency: N/A  
Efficacy: 142.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 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

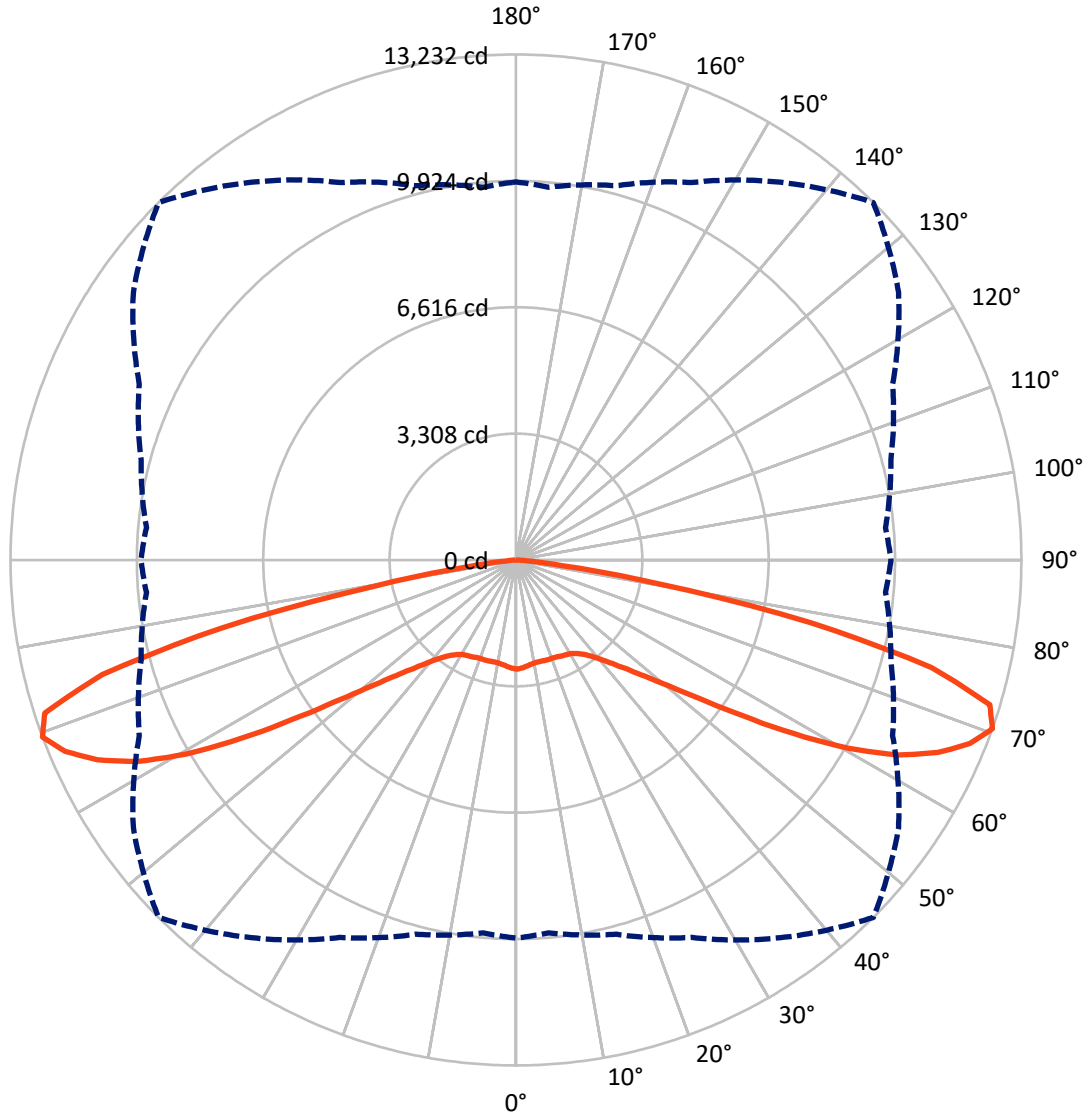
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	15665.5	0.0	15665.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15665.5	0.0	15665.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31331.0	0.0	31331.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.9	0.8
10°-20°	780.6	2.5
20°-30°	1299.1	4.1
30°-40°	1964.6	6.3
40°-50°	3264.7	10.4
50°-60°	6160.4	19.7
60°-70°	10402.2	33.2
70°-80°	6835.3	21.8
80°-90°	358.1	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°	31331.0	100.0
0°-180°	31331.0	100.0

**Coefficient of Utilization**



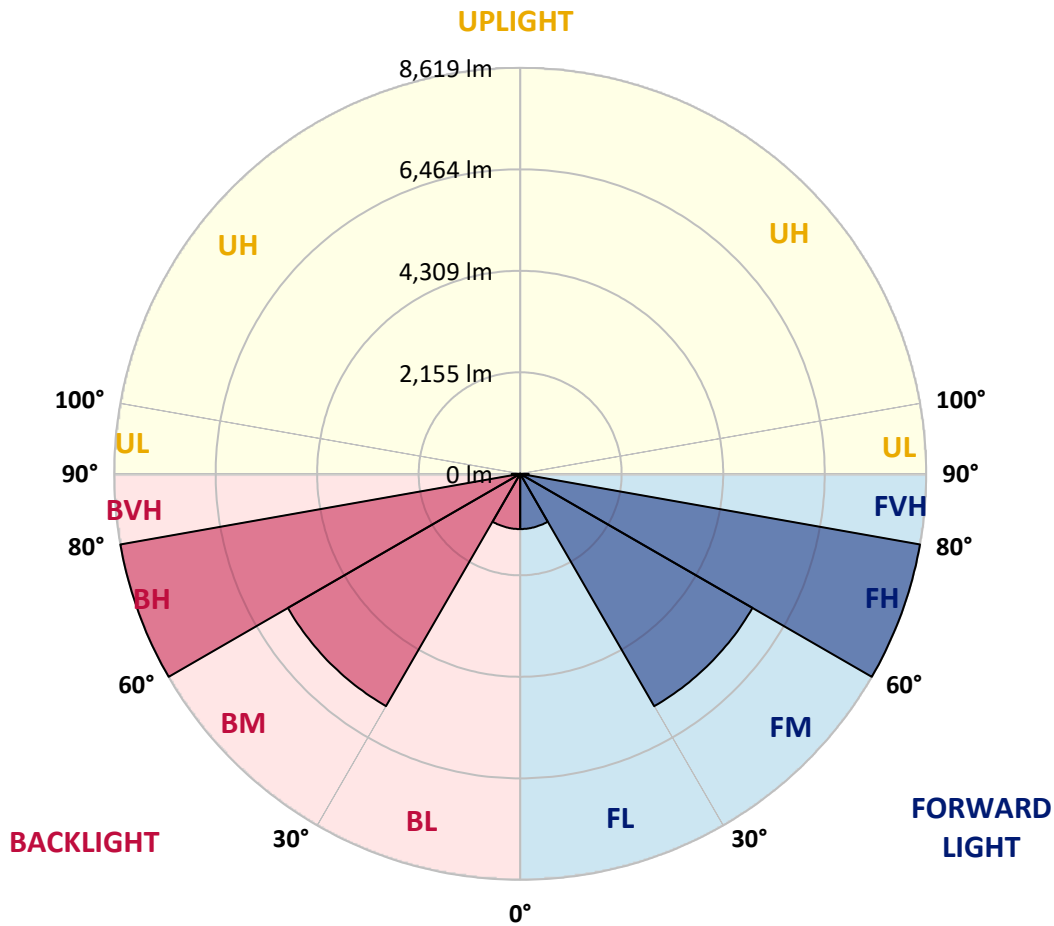
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1172.8	3.7			
FM (30°-60°)	5694.9	18.2			
FH (60°-80°)	8618.7	27.5			G4/12000
FVH (80°-90°)	179.0	0.6			G2/225
BL (0°-30°)	1172.8	3.7	B3/2500		
BM (30°-60°)	5694.9	18.2	B4/8500		
BH (60°-80°)	8618.7	27.5	B5		G4/12000
BVH (80°-90°)	179.0	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°	2858.0	2858.0	2858.0	2858.0	2858.0	2858.0	2858.0	2858.0	2858.0	2858.0	2858.0
2.5°	2840.1	2848.2	2845.0	2838.5	2838.5	2833.6	2838.5	2841.7	2846.6	2849.9	2848.2
5°	2802.6	2809.2	2807.5	2802.6	2804.3	2799.4	2802.6	2807.5	2810.8	2812.4	2812.4
7.5°	2770.1	2776.6	2773.3	2765.2	2765.2	2760.3	2761.9	2766.8	2771.7	2773.3	2773.3
10°	2761.9	2768.5	2758.7	2745.7	2740.8	2734.3	2735.9	2740.8	2750.5	2755.4	2755.4
12.5°	2765.2	2770.1	2760.3	2740.8	2735.9	2729.4	2729.4	2734.3	2747.3	2753.8	2755.4
15°	2775.0	2779.8	2765.2	2744.0	2739.1	2734.3	2732.6	2739.1	2753.8	2765.2	2766.8
17.5°	2792.9	2797.8	2775.0	2745.7	2739.1	2740.8	2739.1	2744.0	2766.8	2788.0	2788.0
20°	2809.2	2812.4	2781.5	2745.7	2739.1	2740.8	2739.1	2748.9	2778.2	2807.5	2809.2
22.5°	2814.0	2817.3	2788.0	2757.1	2752.2	2753.8	2752.2	2761.9	2789.6	2818.9	2818.9
25°	2815.7	2820.6	2797.8	2773.3	2781.5	2784.7	2781.5	2783.1	2804.3	2830.3	2828.7
27.5°	2840.1	2846.6	2825.4	2804.3	2809.2	2807.5	2812.4	2817.3	2833.6	2859.6	2853.1
30°	2890.6	2895.5	2877.6	2856.4	2853.1	2841.7	2856.4	2872.7	2890.6	2913.4	2908.5
32.5°	2973.6	2983.4	2960.6	2937.8	2923.2	2916.6	2928.0	2955.7	2980.2	3004.6	2994.8
35°	3112.1	3118.6	3097.4	3055.1	3029.0	3029.0	3038.8	3074.6	3113.7	3144.6	3133.2
37.5°	3307.5	3315.6	3278.2	3227.7	3188.6	3188.6	3201.6	3239.1	3297.7	3341.7	3325.4
40°	3545.2	3556.6	3509.4	3457.3	3419.9	3413.3	3429.6	3472.0	3527.3	3582.7	3564.8
42.5°	3831.9	3844.9	3783.0	3737.4	3708.1	3708.1	3716.2	3755.3	3805.8	3874.2	3869.3
45°	4198.3	4221.1	4136.4	4090.8	4063.1	4069.6	4074.5	4108.7	4154.3	4232.5	4229.2
47.5°	4634.7	4657.5	4567.9	4520.7	4515.8	4546.8	4527.2	4551.7	4576.1	4665.7	4639.6
50°	5129.8	5168.9	5107.0	5103.7	5113.5	5170.5	5124.9	5137.9	5110.2	5167.2	5133.0
52.5°	5735.6	5792.6	5781.2	5800.7	5909.8	6027.1	5922.9	5877.3	5773.0	5790.9	5730.7
55°	6470.0	6556.3	6572.6	6689.9	6937.4	7176.8	6955.3	6771.3	6549.8	6509.1	6445.6
57.5°	7305.5	7373.8	7452.0	7691.4	8153.9	8578.9	8153.9	7746.8	7398.3	7315.2	7256.6
60°	8204.4	8289.1	8364.0	8717.4	9404.6	10002.2	9391.6	8745.0	8284.2	8171.8	8074.1
62.5°	9170.1	9279.2	9331.3	9723.8	10525.0	11238.3	10536.4	9753.1	9241.7	9121.2	9023.5
65°	10096.7	10186.3	10244.9	10663.4	11428.8	12143.7	11480.9	10709.0	10183.0	10025.0	9946.9
67.5°	10528.3	10577.1	10720.4	11194.3	12002.0	12817.9	12138.8	11244.8	10656.9	10380.1	10383.3
70°	9896.4	9797.1	10142.3	10901.2	12070.4	13231.6	12226.8	10878.4	10158.6	9709.1	9816.6
72.5°	7647.4	7476.4	8075.7	9373.6	11288.8	12967.7	11366.9	9446.9	8448.7	7536.7	7763.1
75°	4160.8	3967.0	4794.3	6435.8	9002.3	11239.9	9209.2	6619.9	5338.2	4129.9	4398.6
77.5°	1174.1	1100.9	1768.6	3113.7	5414.8	7891.7	5623.2	3182.1	2097.5	1244.2	1382.6
80°	359.9	348.5	472.3	938.0	2299.4	3779.7	2209.9	949.4	600.9	379.4	400.6
82.5°	213.3	195.4	234.5	342.0	586.3	1187.2	570.0	356.6	286.6	192.2	208.4
85°	122.1	114.0	138.4	166.1	197.0	252.4	164.5	169.4	153.1	102.6	107.5
87.5°	50.5	45.6	53.7	52.1	45.6	58.6	44.0	52.1	61.9	40.7	37.5
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)