

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: P883065

Luminaire Tested: **NAV-SB3B-727-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3B-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

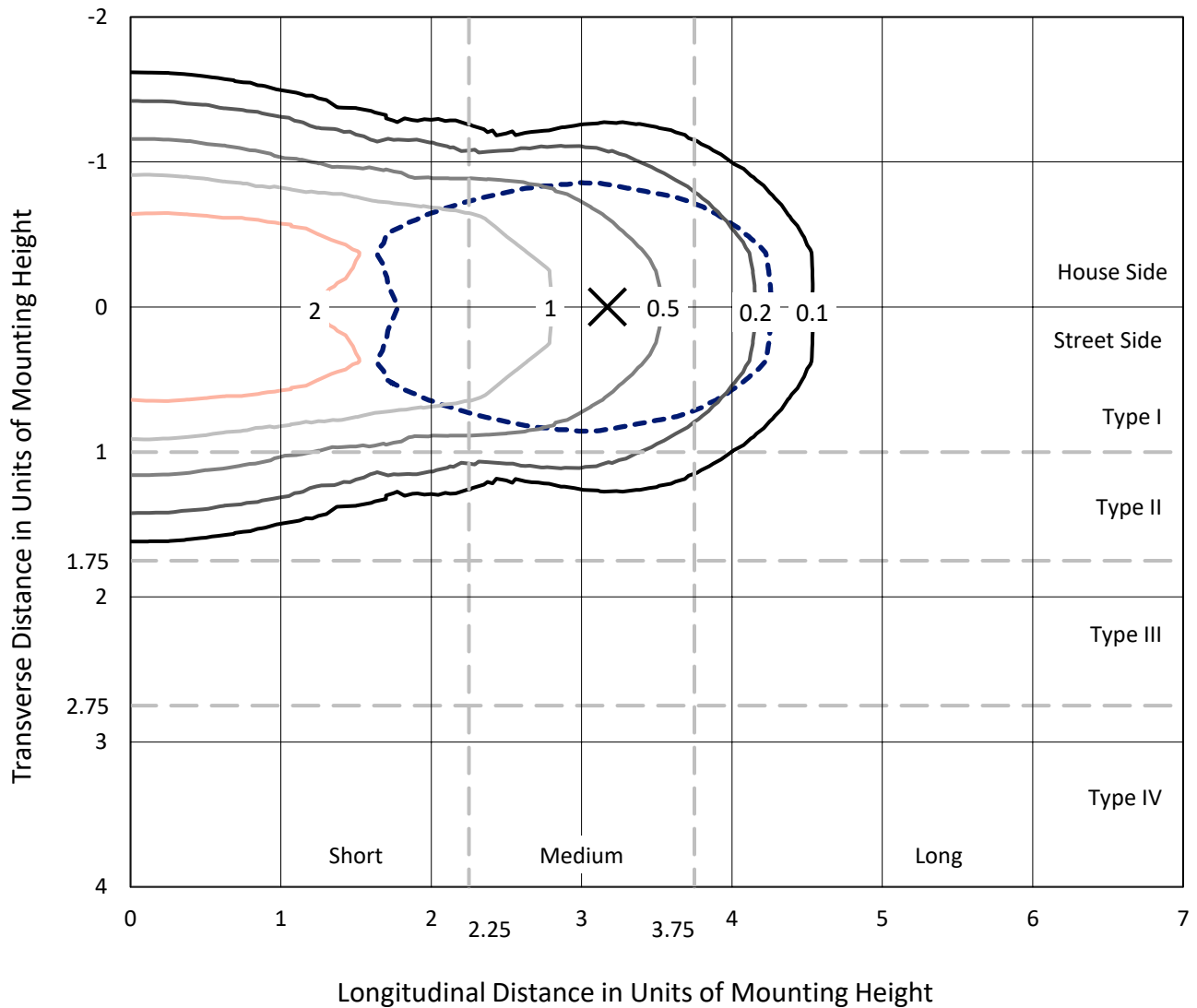
Lumens per Lamp: N/A  
Luminaire Lumens: 15142 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 109.2  
Input Voltage (V): 120.0  
Input Current (Ain): 0.919  
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

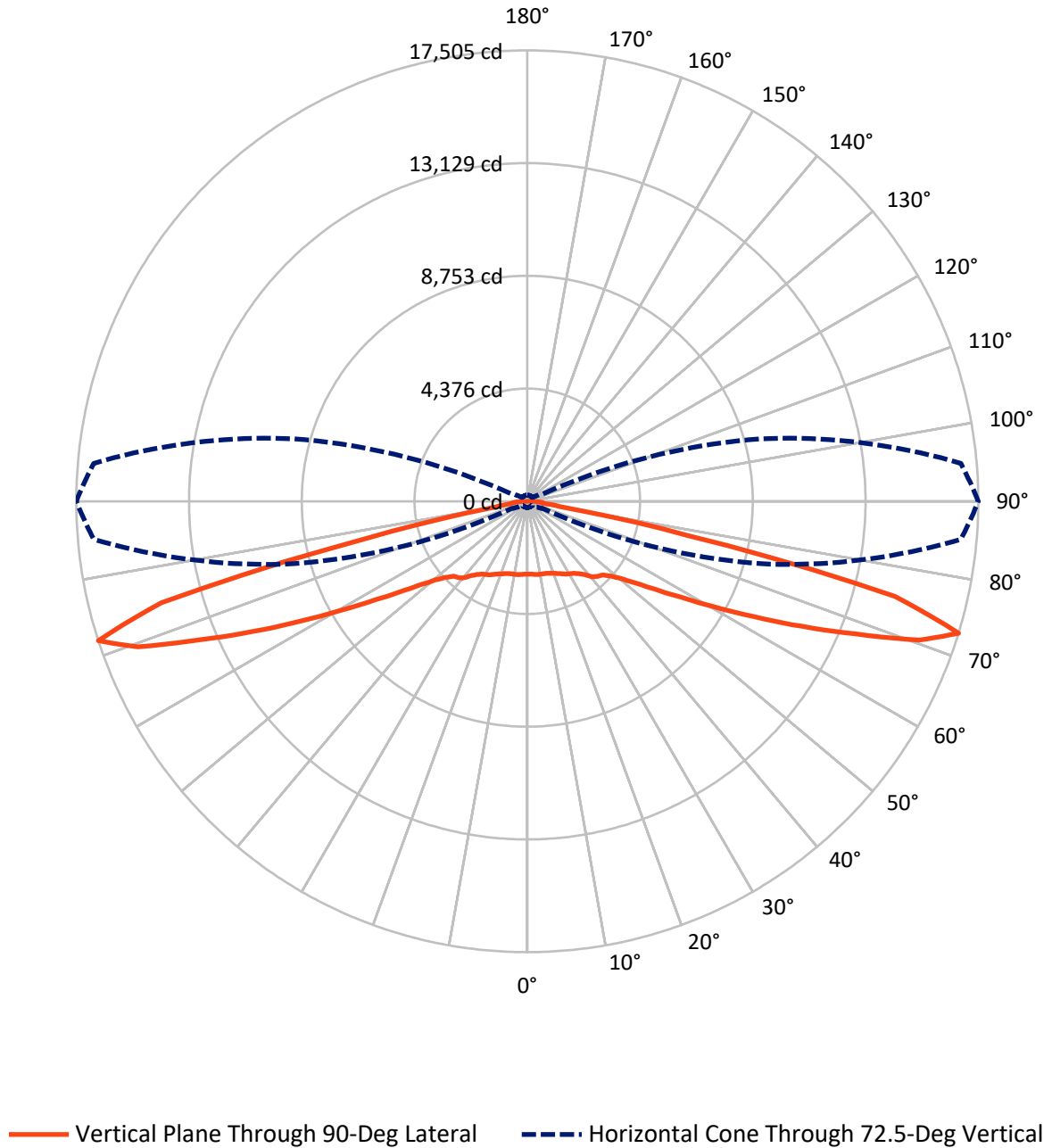
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7571.0	0.0	7571.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7571.0	0.0	7571.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15142.0	0.0	15142.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.3	1.8
10°-20°	838.8	5.5
20°-30°	1398.7	9.2
30°-40°	1923.7	12.7
40°-50°	2349.3	15.5
50°-60°	2717.2	17.9
60°-70°	3239.8	21.4
70°-80°	2261.2	14.9
80°-90°	138.9	0.9
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°	15142.0	100.0
0°-180°	15142.0	100.0

**Coefficient of Utilization**



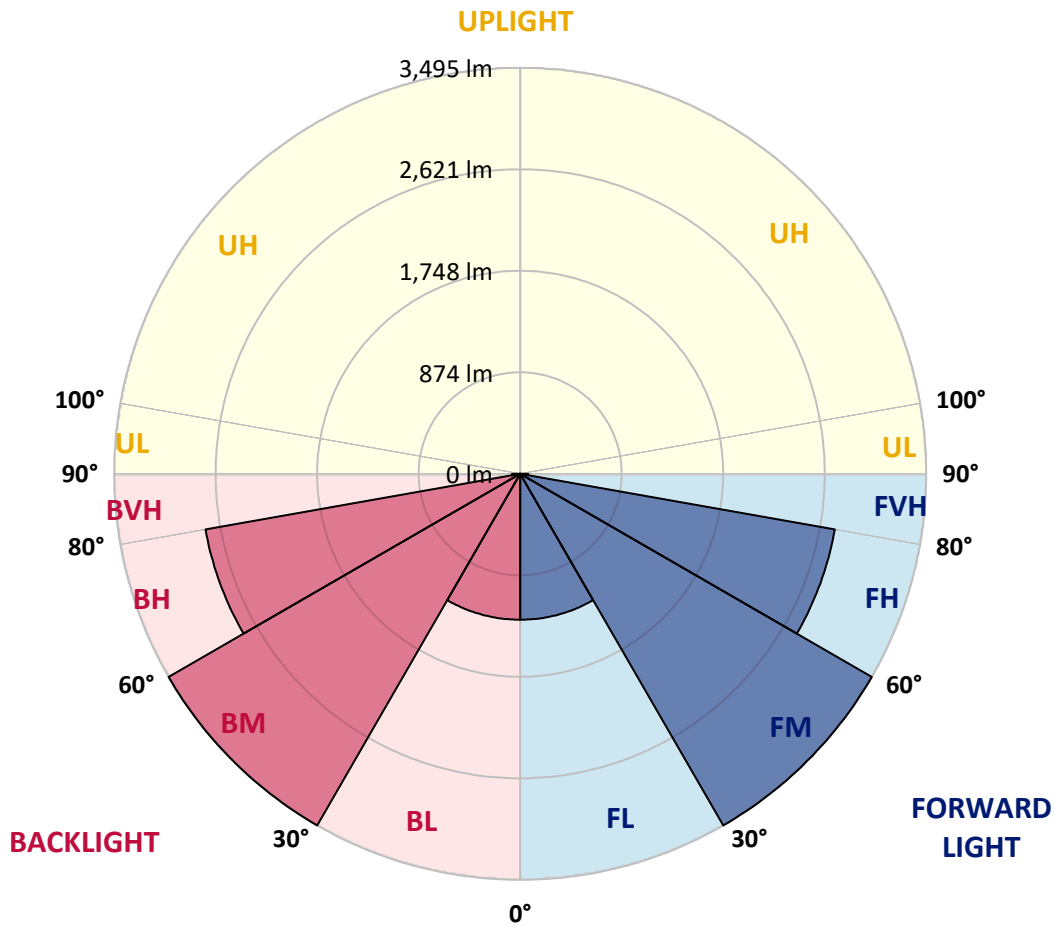
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1256.0	8.3			
FM (30°-60°)	3495.1	23.1			
FH (60°-80°)	2750.5	18.2			G2/5000
FVH (80°-90°)	69.4	0.5			G1/100
BL (0°-30°)	1256.0	8.3	B3/2500		
BM (30°-60°)	3495.1	23.1	B3/5000		
BH (60°-80°)	2750.5	18.2	B4/5000		G4/5000
BVH (80°-90°)	69.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4	2829.4
2.5°	2831.9	2835.1	2835.1	2832.7	2838.3	2833.5	2833.5	2831.1	2833.5	2831.1	2831.1
5°	2846.3	2850.4	2852.0	2851.2	2858.4	2854.4	2854.4	2851.2	2852.0	2849.6	2849.6
7.5°	2873.7	2879.3	2882.6	2886.6	2897.0	2892.2	2889.0	2879.3	2875.3	2868.9	2868.9
10°	2882.6	2889.0	2899.5	2920.4	2944.5	2945.3	2935.7	2911.5	2893.0	2878.5	2876.1
12.5°	2855.2	2864.0	2885.8	2928.4	2982.3	3004.1	2988.8	2948.5	2912.3	2886.6	2882.6
15°	2820.6	2830.2	2863.2	2927.6	3007.3	3058.0	3056.4	3003.3	2945.3	2905.1	2898.6
17.5°	2766.7	2776.3	2823.8	2913.9	3026.6	3110.3	3132.8	3078.1	2996.8	2942.9	2934.1
20°	2669.3	2678.2	2744.1	2870.5	3033.0	3165.8	3224.6	3176.3	3074.9	3001.7	2988.0
22.5°	2543.0	2556.6	2633.9	2795.6	3017.8	3223.8	3329.2	3296.2	3165.8	3064.4	3045.9
25°	2407.8	2422.2	2512.4	2703.9	2978.3	3265.6	3453.1	3432.2	3268.8	3142.5	3116.7
27.5°	2291.1	2306.4	2404.5	2613.0	2917.2	3281.7	3575.4	3585.9	3393.6	3228.6	3201.2
30°	2199.3	2213.8	2318.4	2539.7	2838.3	3265.6	3682.5	3754.9	3520.7	3303.4	3264.0
32.5°	2098.7	2117.3	2227.5	2450.4	2744.9	3227.0	3775.8	3937.6	3668.0	3383.9	3334.0
35°	1971.6	1988.5	2104.4	2328.1	2622.6	3165.0	3853.9	4140.4	3878.8	3506.2	3450.7
37.5°	1817.1	1833.2	1948.3	2175.2	2501.1	3078.1	3913.4	4368.9	4129.9	3682.5	3608.4
40°	1661.8	1677.1	1784.9	2004.6	2355.5	2967.1	3934.3	4592.6	4418.0	3924.7	3845.8
42.5°	1519.3	1533.0	1632.0	1836.4	2192.1	2825.4	3907.0	4787.4	4676.3	4093.7	3992.3
45°	1388.2	1400.2	1488.0	1678.7	2022.3	2653.2	3824.9	4996.6	4983.7	4214.4	4077.6
47.5°	1238.5	1250.6	1341.5	1525.8	1852.5	2451.2	3685.7	5202.6	5411.0	4488.0	4330.3
50°	1055.8	1066.3	1159.6	1349.5	1676.3	2236.4	3492.5	5364.4	5950.2	4902.4	4704.5
52.5°	839.3	850.6	941.5	1131.5	1467.0	2005.4	3238.2	5469.8	6573.1	5507.6	5263.8
55°	624.5	632.5	711.4	882.0	1207.9	1742.2	2919.6	5499.5	7279.6	6334.9	6029.9
57.5°	453.1	457.9	508.6	635.7	915.8	1413.1	2532.5	5422.3	8120.6	7395.5	7011.6
60°	367.0	368.6	383.9	440.2	636.5	1041.3	2064.9	5156.7	9033.1	8762.7	8279.1
62.5°	333.2	333.2	337.2	352.5	430.5	687.2	1499.2	4606.3	10011.7	10490.5	9842.7
65°	309.8	309.8	311.4	318.7	339.6	437.8	946.4	3709.8	10836.5	12514.4	11695.2
67.5°	288.9	289.7	288.9	291.3	303.4	323.5	548.8	2562.3	11280.8	14611.5	13727.1
70°	267.2	268.8	264.8	264.8	274.4	275.2	343.6	1405.1	10912.2	16369.1	16136.5
72.5°	241.4	243.8	237.4	235.8	243.0	239.8	258.3	674.4	9368.7	16893.8	17505.4
75°	218.9	222.1	207.6	203.6	203.6	201.2	210.0	346.0	6080.6	13781.1	14740.3
77.5°	198.8	205.2	181.9	169.0	165.8	158.5	171.4	211.6	2659.6	6470.1	6335.7
80°	164.2	173.0	149.7	134.4	128.8	120.7	135.2	148.1	791.1	1502.4	1438.9
82.5°	122.3	126.3	106.2	95.8	90.9	85.3	101.4	103.0	257.5	531.9	601.1
85°	78.1	79.7	65.2	56.3	53.9	51.5	64.4	56.3	98.2	391.1	568.1
87.5°	27.4	31.4	24.9	22.5	24.1	20.1	29.8	16.9	27.4	276.0	342.0
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)