

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: P882555

Luminaire Tested: **NAV-SB2C-727-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882555  
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-SB2C-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

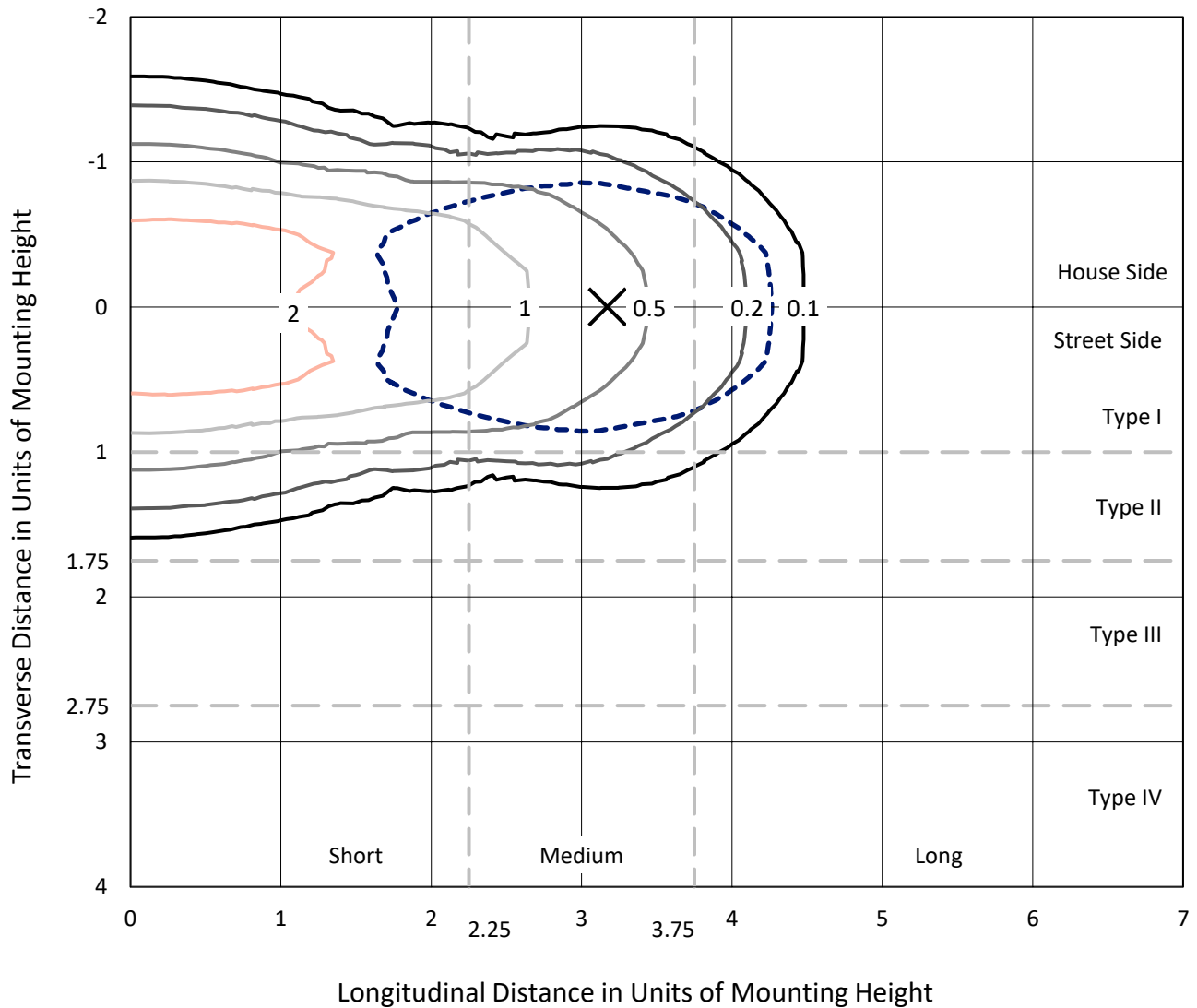
Lumens per Lamp: N/A  
Luminaire Lumens: 13684 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.857  
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

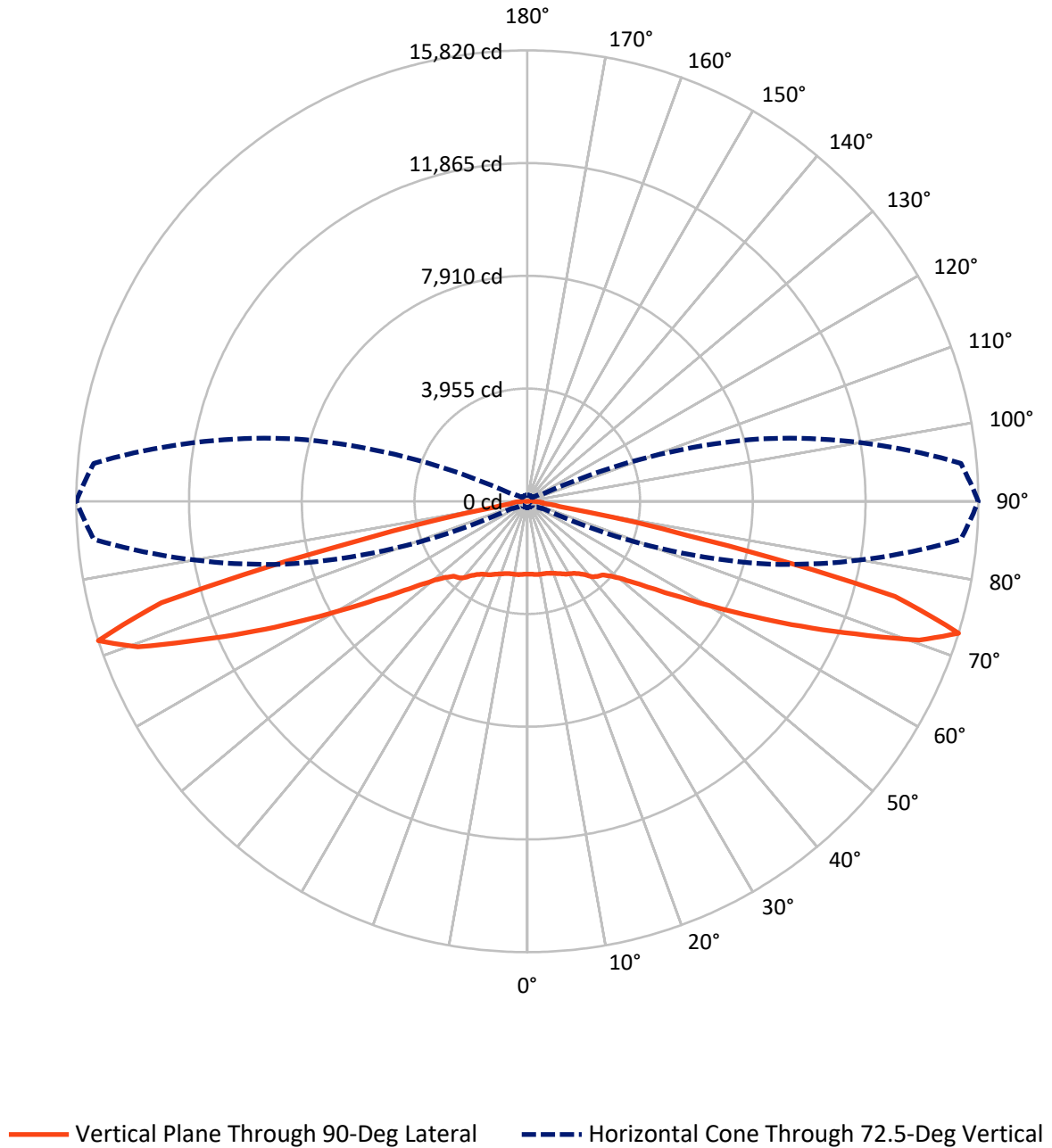
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	6842.0	0.0	6842.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6842.0	0.0	6842.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13684.0	0.0	13684.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.9	1.8
10°-20°	758.1	5.5
20°-30°	1264.0	9.2
30°-40°	1738.4	12.7
40°-50°	2123.1	15.5
50°-60°	2455.6	17.9
60°-70°	2927.9	21.4
70°-80°	2043.5	14.9
80°-90°	125.5	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°	13684.0	100.0
0°-180°	13684.0	100.0

**Coefficient of Utilization**



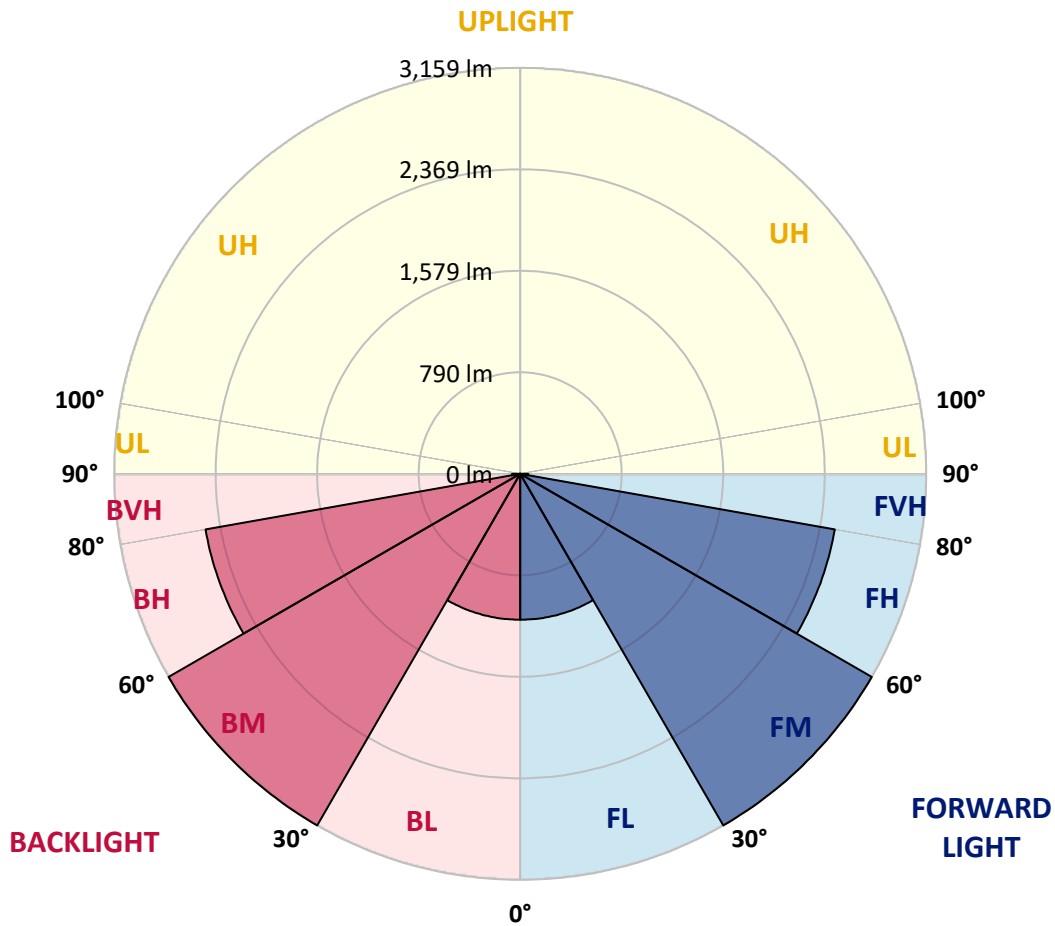
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.0	8.3			
FM (30°-60°)	3158.6	23.1			
FH (60°-80°)	2485.7	18.2			G2/5000
FVH (80°-90°)	62.8	0.5			G1/100
BL (0°-30°)	1135.0	8.3	B3/2500		
BM (30°-60°)	3158.6	23.1	B3/5000		
BH (60°-80°)	2485.7	18.2	B3/2500		G3/2500
BVH (80°-90°)	62.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2557.0	2557.0	2557.0	2557.0	2557.0	2557.0	2557.0	2557.0	2557.0	2557.0	2557.0
2.5°	2559.2	2562.1	2562.1	2559.9	2565.0	2560.6	2560.6	2558.5	2560.6	2558.5	2558.5
5°	2572.3	2575.9	2577.4	2576.6	2583.2	2579.5	2579.5	2576.6	2577.4	2575.2	2575.2
7.5°	2597.0	2602.1	2605.0	2608.6	2618.1	2613.7	2610.8	2602.1	2598.5	2592.6	2592.6
10°	2605.0	2610.8	2620.3	2639.2	2661.0	2661.7	2653.0	2631.2	2614.5	2601.4	2599.2
12.5°	2580.3	2588.3	2607.9	2646.5	2695.2	2714.8	2701.0	2664.6	2631.9	2608.6	2605.0
15°	2549.0	2557.7	2587.5	2645.7	2717.7	2763.5	2762.1	2714.1	2661.7	2625.4	2619.5
17.5°	2500.3	2509.0	2551.9	2633.4	2735.2	2810.8	2831.2	2781.7	2708.3	2659.5	2651.5
20°	2412.3	2420.3	2479.9	2594.1	2741.0	2861.0	2914.1	2870.4	2778.8	2712.6	2700.3
22.5°	2298.1	2310.5	2380.3	2526.5	2727.2	2913.4	3008.6	2978.8	2861.0	2769.4	2752.6
25°	2175.9	2189.0	2270.5	2443.5	2691.5	2951.2	3120.6	3101.7	2954.1	2839.9	2816.6
27.5°	2070.5	2084.3	2173.0	2361.4	2636.3	2965.7	3231.2	3240.6	3066.8	2917.7	2893.0
30°	1987.6	2000.7	2095.2	2295.2	2565.0	2951.2	3327.9	3393.3	3181.7	2985.3	2949.7
32.5°	1896.7	1913.4	2013.0	2214.5	2480.6	2916.3	3412.2	3558.4	3314.8	3058.1	3013.0
35°	1781.8	1797.0	1901.8	2103.9	2370.1	2860.3	3482.8	3741.7	3505.3	3168.6	3118.4
37.5°	1642.1	1656.7	1760.7	1965.7	2260.3	2781.7	3536.6	3948.2	3732.2	3327.9	3261.0
40°	1501.8	1515.6	1613.0	1811.6	2128.7	2681.4	3555.5	4150.4	3992.6	3546.8	3475.5
42.5°	1373.0	1385.4	1474.9	1659.6	1981.0	2553.4	3530.8	4326.4	4226.0	3699.5	3607.9
45°	1254.5	1265.4	1344.7	1517.0	1827.6	2397.7	3456.6	4515.5	4503.8	3808.6	3685.0
47.5°	1119.2	1130.1	1212.3	1378.9	1674.1	2215.2	3330.8	4701.7	4890.0	4055.9	3913.3
50°	954.1	963.6	1048.0	1219.6	1514.9	2021.0	3156.3	4847.8	5377.3	4430.4	4251.5
52.5°	758.5	768.7	850.9	1022.5	1325.8	1812.3	2926.4	4943.1	5940.2	4977.3	4756.9
55°	564.3	571.6	642.9	797.1	1091.6	1574.5	2638.5	4970.0	6578.7	5724.9	5449.3
57.5°	409.4	413.8	459.6	574.5	827.6	1277.0	2288.6	4900.2	7338.6	6683.4	6336.5
60°	331.6	333.1	346.9	397.8	575.3	941.1	1866.1	4660.2	8163.3	7919.0	7481.9
62.5°	301.1	301.1	304.7	318.5	389.1	621.1	1354.9	4162.8	9047.7	9480.4	8895.0
65°	280.0	280.0	281.4	288.0	306.9	395.6	855.2	3352.6	9793.1	11309.4	10569.1
67.5°	261.1	261.8	261.1	263.3	274.2	292.4	496.0	2315.6	10194.5	13204.6	12405.4
70°	241.4	242.9	239.3	239.3	248.0	248.7	310.5	1269.8	9861.5	14792.9	14582.8
72.5°	218.2	220.4	214.5	213.1	219.6	216.7	233.4	609.4	8466.6	15267.1	15819.8
75°	197.8	200.7	187.6	184.0	184.0	181.8	189.8	312.7	5495.1	12454.1	13321.0
77.5°	179.6	185.4	164.4	152.7	149.8	143.3	154.9	191.3	2403.6	5847.1	5725.6
80°	148.4	156.4	135.3	121.5	116.4	109.1	122.2	133.8	714.9	1357.8	1300.3
82.5°	110.5	114.2	96.0	86.5	82.2	77.1	91.6	93.1	232.7	480.7	543.3
85°	70.5	72.0	58.9	50.9	48.7	46.5	58.2	50.9	88.7	353.4	513.4
87.5°	24.7	28.4	22.5	20.4	21.8	18.2	26.9	15.3	24.7	249.4	309.1
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)