

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: P883912

Luminaire Tested: **NAV-SB4C-727-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883912  
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-SB4C-727-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

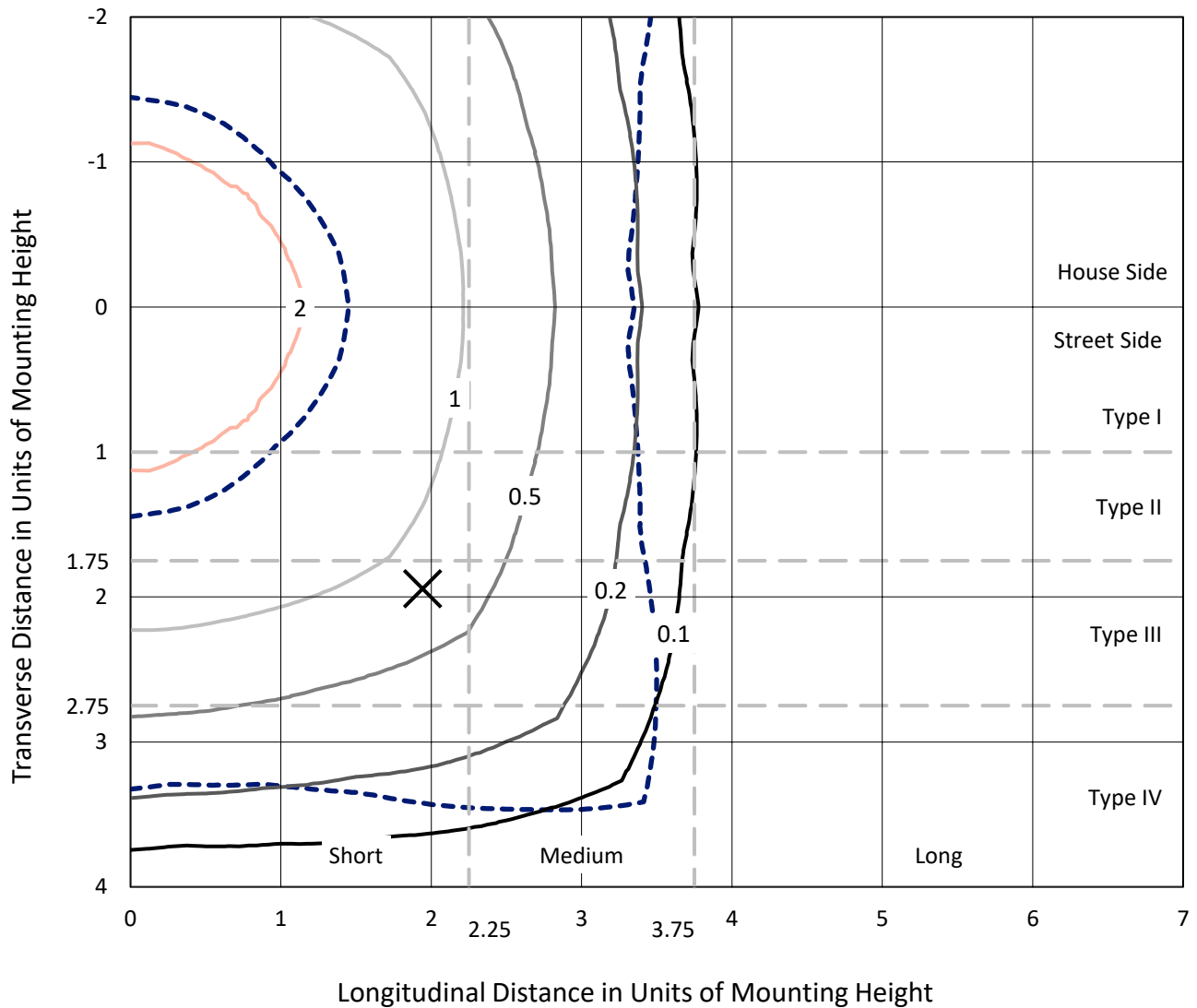
Lumens per Lamp: N/A  
Luminaire Lumens: 27822 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): 120.0  
Input Current (Ain): 1.714  
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

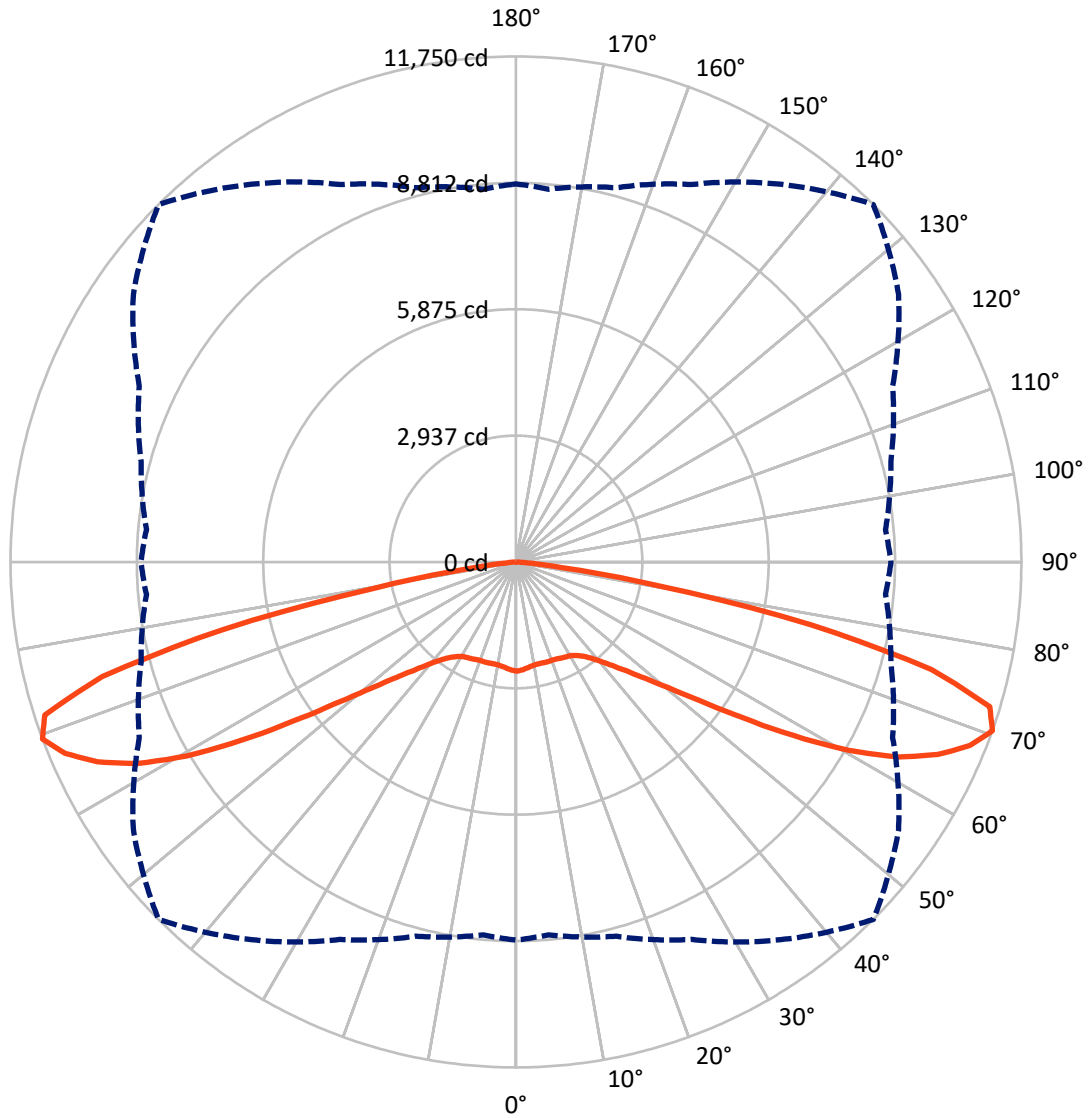
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type 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	13911.0	0.0	13911.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13911.0	0.0	13911.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27822.0	0.0	27822.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.1	0.8
10°-20°	693.2	2.5
20°-30°	1153.6	4.1
30°-40°	1744.6	6.3
40°-50°	2899.1	10.4
50°-60°	5470.5	19.7
60°-70°	9237.1	33.2
70°-80°	6069.8	21.8
80°-90°	318.0	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°	27822.0	100.0
0°-180°	27822.0	100.0

**Coefficient of Utilization**



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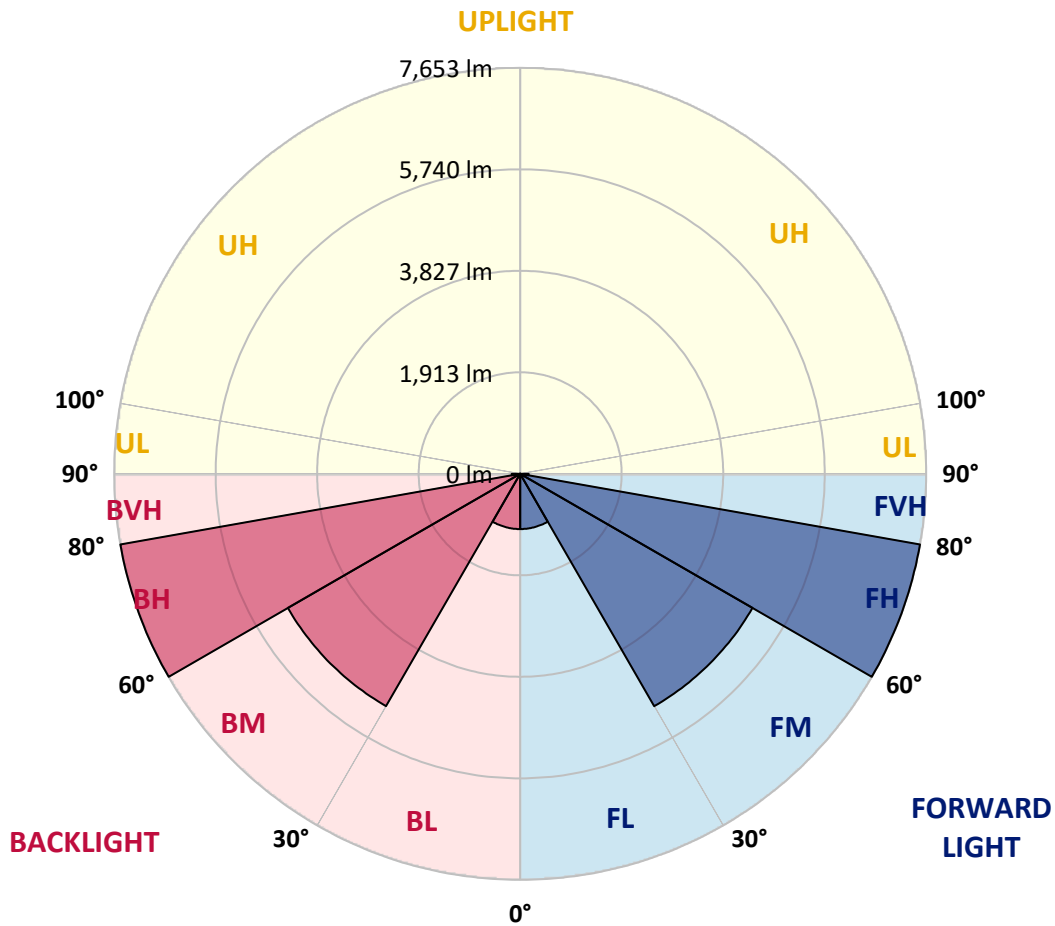
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.4	3.7			
FM (30°-60°)	5057.1	18.2			
FH (60°-80°)	7653.5	27.5			G4/12000
FVH (80°-90°)	159.0	0.6			G2/225
BL (0°-30°)	1041.4	3.7	B3/2500		
BM (30°-60°)	5057.1	18.2	B4/8500		
BH (60°-80°)	7653.5	27.5	B5		G4/12000
BVH (80°-90°)	159.0	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°	2537.9	2537.9	2537.9	2537.9	2537.9	2537.9	2537.9	2537.9	2537.9	2537.9	2537.9
2.5°	2522.0	2529.2	2526.4	2520.6	2520.6	2516.2	2520.6	2523.5	2527.8	2530.7	2529.2
5°	2488.8	2494.5	2493.1	2488.8	2490.2	2485.9	2488.8	2493.1	2496.0	2497.4	2497.4
7.5°	2459.8	2465.6	2462.7	2455.5	2455.5	2451.2	2452.6	2456.9	2461.3	2462.7	2462.7
10°	2452.6	2458.4	2449.7	2438.1	2433.8	2428.0	2429.5	2433.8	2442.5	2446.8	2446.8
12.5°	2455.5	2459.8	2451.2	2433.8	2429.5	2423.7	2423.7	2428.0	2439.6	2445.4	2446.8
15°	2464.2	2468.5	2455.5	2436.7	2432.4	2428.0	2426.6	2432.4	2445.4	2455.5	2456.9
17.5°	2480.1	2484.4	2464.2	2438.1	2432.4	2433.8	2432.4	2436.7	2456.9	2475.7	2475.7
20°	2494.5	2497.4	2470.0	2438.1	2432.4	2433.8	2432.4	2441.0	2467.1	2493.1	2494.5
22.5°	2498.9	2501.8	2475.7	2448.3	2443.9	2445.4	2443.9	2452.6	2477.2	2503.2	2503.2
25°	2500.3	2504.7	2484.4	2462.7	2470.0	2472.9	2470.0	2471.4	2490.2	2513.3	2511.9
27.5°	2522.0	2527.8	2509.0	2490.2	2494.5	2493.1	2497.4	2501.8	2516.2	2539.4	2533.6
30°	2566.8	2571.2	2555.3	2536.5	2533.6	2523.5	2536.5	2550.9	2566.8	2587.1	2582.8
32.5°	2640.6	2649.3	2629.0	2608.8	2595.8	2590.0	2600.1	2624.7	2646.4	2668.1	2659.4
35°	2763.5	2769.3	2750.5	2712.9	2689.8	2689.8	2698.4	2730.3	2765.0	2792.4	2782.3
37.5°	2937.1	2944.3	2911.0	2866.2	2831.5	2831.5	2843.1	2876.3	2928.4	2967.4	2953.0
40°	3148.2	3158.3	3116.4	3070.1	3036.8	3031.1	3045.5	3083.1	3132.3	3181.4	3165.5
42.5°	3402.7	3414.3	3359.3	3318.8	3292.8	3292.8	3300.0	3334.7	3379.6	3440.3	3436.0
45°	3728.1	3748.3	3673.1	3632.6	3608.0	3613.8	3618.2	3648.5	3689.0	3758.4	3755.6
47.5°	4115.6	4135.9	4056.3	4014.4	4010.1	4037.5	4020.2	4041.9	4063.6	4143.1	4120.0
50°	4555.3	4590.0	4535.0	4532.1	4540.8	4591.4	4550.9	4562.5	4537.9	4588.5	4558.1
52.5°	5093.2	5143.8	5133.7	5151.1	5247.9	5352.1	5259.5	5219.0	5126.5	5142.4	5088.9
55°	5745.4	5822.0	5836.5	5940.6	6160.4	6373.0	6176.3	6012.9	5816.3	5780.1	5723.7
57.5°	6487.3	6548.0	6617.4	6830.0	7240.7	7618.1	7240.7	6879.2	6569.7	6495.9	6443.9
60°	7285.5	7360.7	7427.2	7741.0	8351.3	8882.0	8339.7	7765.6	7356.4	7256.6	7169.8
62.5°	8143.1	8239.9	8286.2	8634.7	9346.2	9979.6	9356.3	8660.8	8206.7	8099.7	8012.9
65°	8965.9	9045.4	9097.5	9469.1	10148.8	10783.7	10195.1	9509.6	9042.5	8902.3	8832.9
67.5°	9349.1	9392.5	9519.8	9940.6	10657.8	11382.3	10779.3	9985.4	9463.4	9217.5	9220.4
70°	8788.0	8699.8	9006.4	9680.3	10718.6	11749.7	10857.4	9660.0	9020.8	8621.7	8717.2
72.5°	6790.9	6639.1	7171.3	8323.8	10024.4	11515.4	10093.9	8388.9	7502.4	6692.6	6893.6
75°	3694.8	3522.7	4257.4	5715.0	7994.1	9981.1	8177.8	5878.4	4740.4	3667.3	3905.9
77.5°	1042.6	977.6	1570.5	2765.0	4808.3	7007.9	4993.4	2825.7	1862.6	1104.8	1227.7
80°	319.6	309.5	419.4	833.0	2041.9	3356.4	1962.4	843.1	533.6	336.9	355.7
82.5°	189.4	173.5	208.2	303.7	520.6	1054.2	506.1	316.7	254.5	170.6	185.1
85°	108.5	101.2	122.9	147.5	175.0	224.1	146.1	150.4	135.9	91.1	95.4
87.5°	44.8	40.5	47.7	46.3	40.5	52.1	39.0	46.3	55.0	36.2	33.3
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)