

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: P884932

Luminaire Tested: **NAV-SB6A-727-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884932  
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-SB6A-727-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

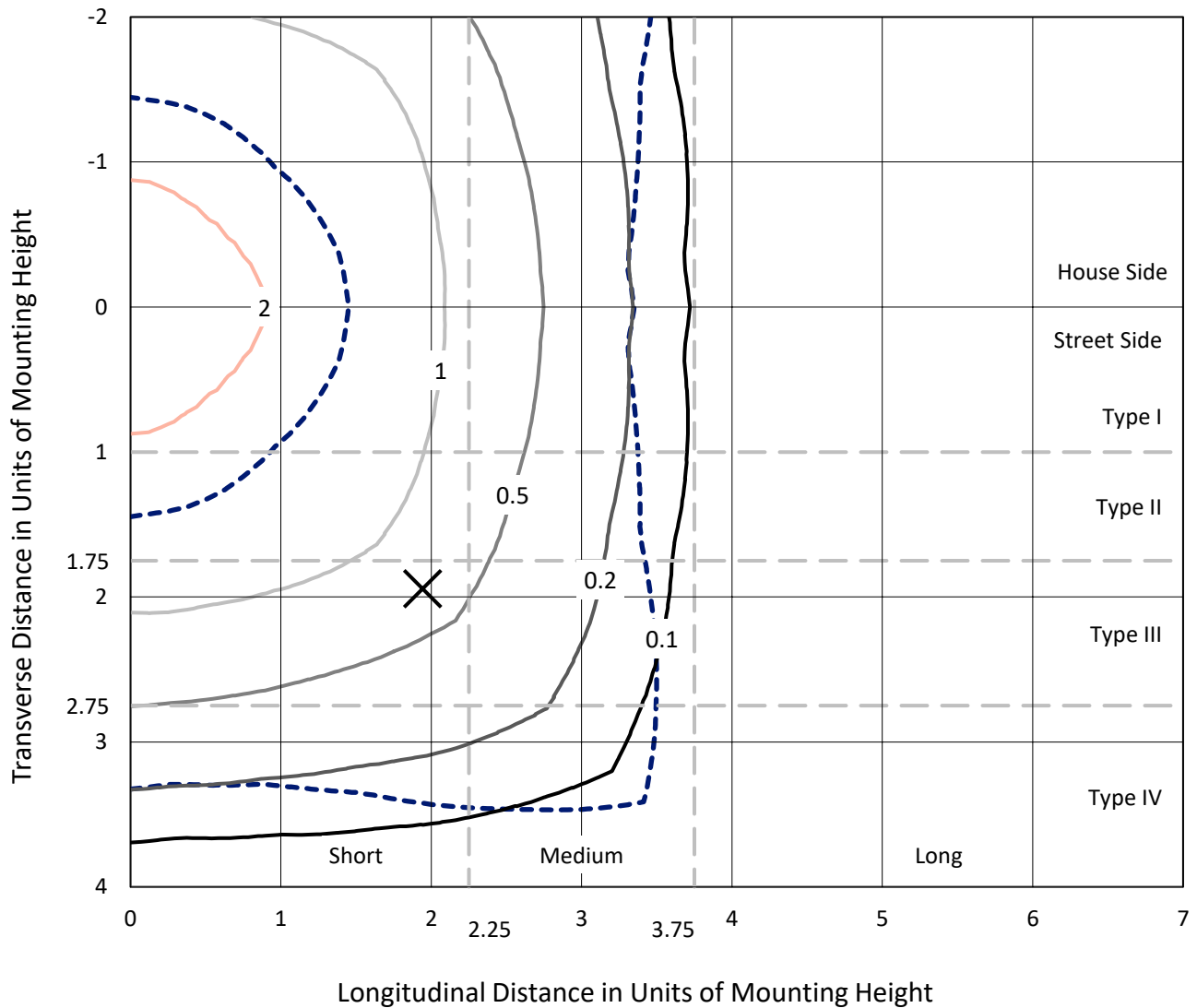
Lumens per Lamp: N/A  
Luminaire Lumens: 24958 lumens  
Efficiency: N/A  
Efficacy: 146.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

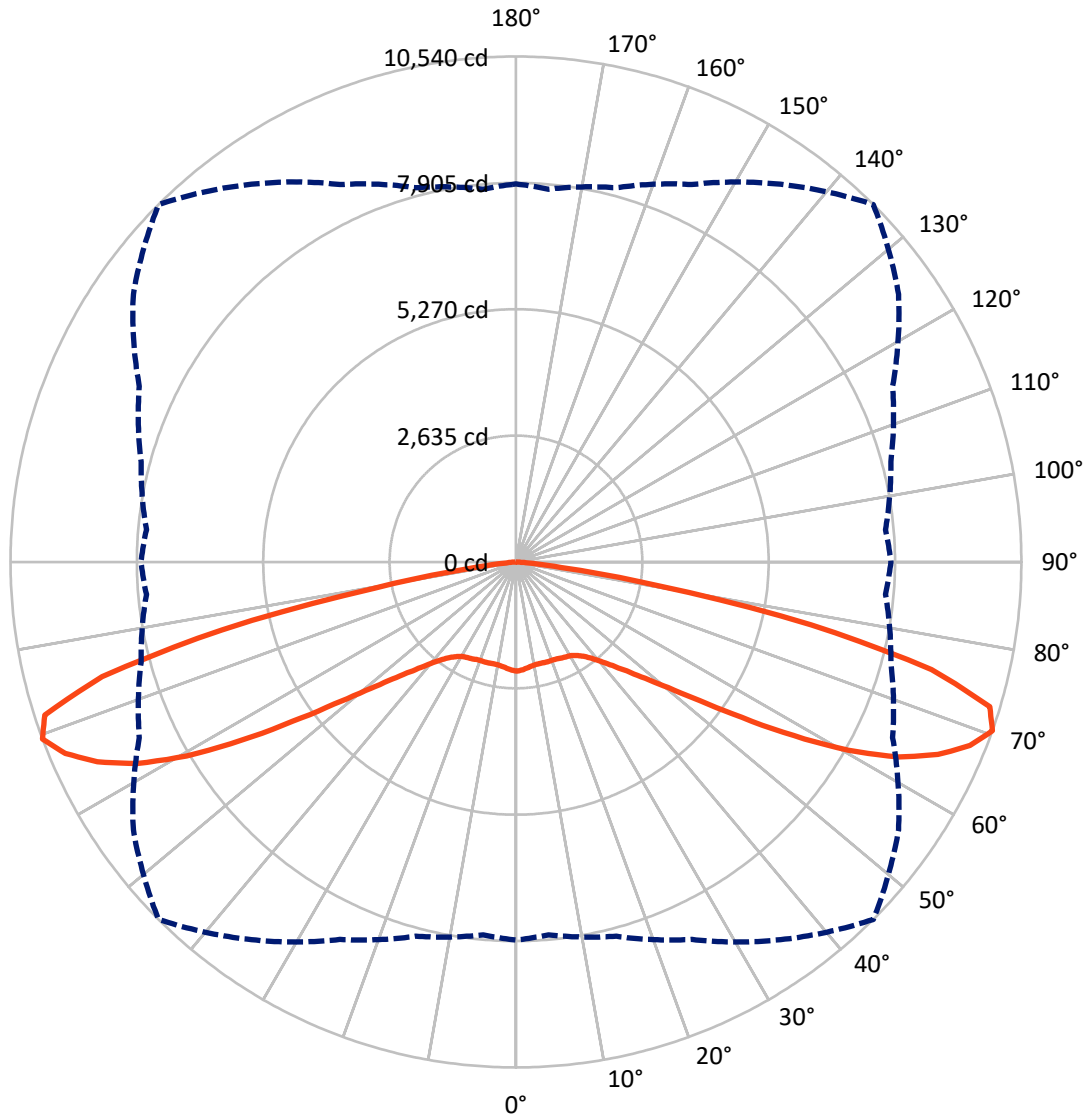
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	12479.0	0.0	12479.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12479.0	0.0	12479.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24958.0	0.0	24958.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.8	0.8
10°-20°	621.9	2.5
20°-30°	1034.8	4.1
30°-40°	1565.0	6.3
40°-50°	2600.7	10.4
50°-60°	4907.4	19.7
60°-70°	8286.3	33.2
70°-80°	5444.9	21.8
80°-90°	285.3	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°	24958.0	100.0
0°-180°	24958.0	100.0

**Coefficient of Utilization**



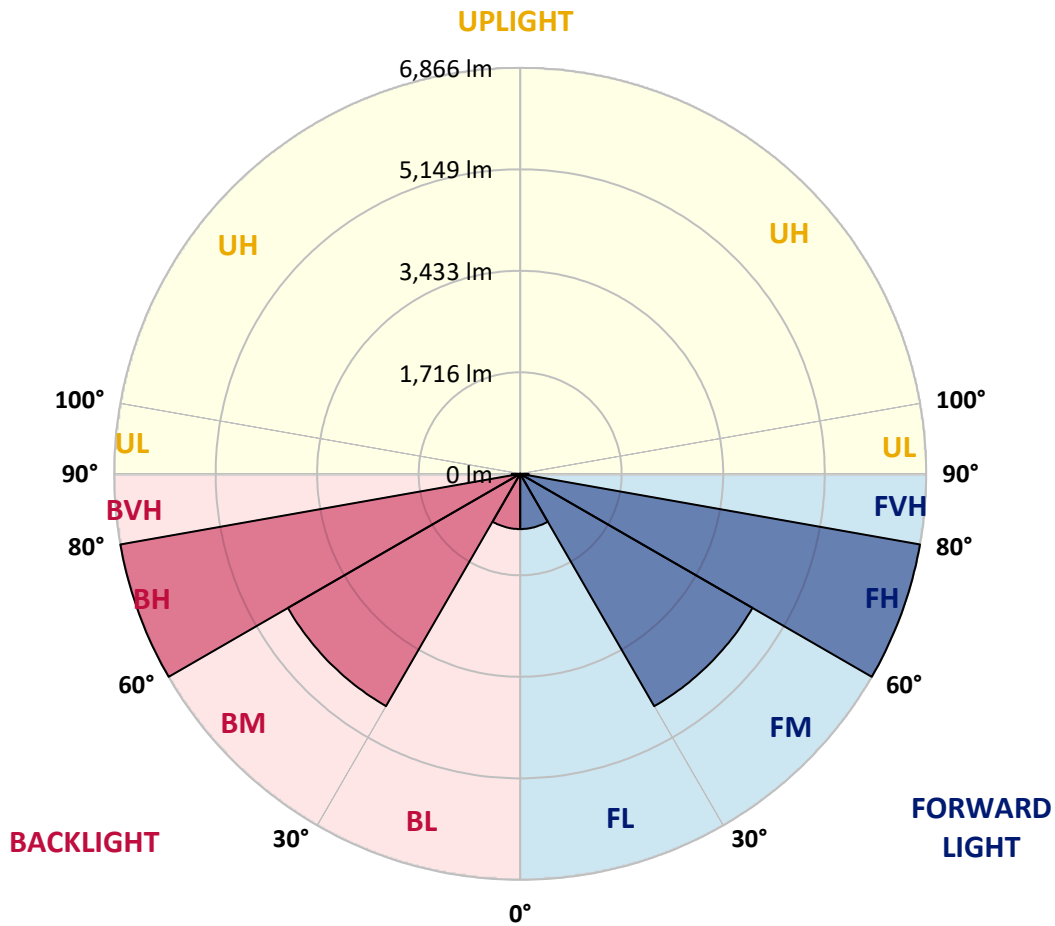
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	934.2	3.7			
FM (30°-60°)	4536.5	18.2			
FH (60°-80°)	6865.6	27.5			G3/7500
FVH (80°-90°)	142.6	0.6			G2/225
BL (0°-30°)	934.2	3.7	B2/1000		
BM (30°-60°)	4536.5	18.2	B3/5000		
BH (60°-80°)	6865.6	27.5	B5		G3/7500
BVH (80°-90°)	142.6	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-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2276.7	2276.7	2276.7	2276.7	2276.7	2276.7	2276.7	2276.7	2276.7	2276.7	2276.7
2.5°	2262.4	2268.9	2266.3	2261.1	2261.1	2257.2	2261.1	2263.7	2267.6	2270.2	2268.9
5°	2232.6	2237.8	2236.5	2232.6	2233.9	2230.0	2232.6	2236.5	2239.1	2240.3	2240.3
7.5°	2206.6	2211.8	2209.2	2202.7	2202.7	2198.8	2200.1	2204.0	2207.9	2209.2	2209.2
10°	2200.1	2205.3	2197.5	2187.2	2183.3	2178.1	2179.4	2183.3	2191.1	2194.9	2194.9
12.5°	2202.7	2206.6	2198.8	2183.3	2179.4	2174.2	2174.2	2178.1	2188.5	2193.6	2194.9
15°	2210.5	2214.4	2202.7	2185.9	2182.0	2178.1	2176.8	2182.0	2193.6	2202.7	2204.0
17.5°	2224.8	2228.7	2210.5	2187.2	2182.0	2183.3	2182.0	2185.9	2204.0	2220.9	2220.9
20°	2237.8	2240.3	2215.7	2187.2	2182.0	2183.3	2182.0	2189.8	2213.1	2236.5	2237.8
22.5°	2241.6	2244.2	2220.9	2196.2	2192.4	2193.6	2192.4	2200.1	2222.2	2245.5	2245.5
25°	2242.9	2246.8	2228.7	2209.2	2215.7	2218.3	2215.7	2217.0	2233.9	2254.6	2253.3
27.5°	2262.4	2267.6	2250.7	2233.9	2237.8	2236.5	2240.3	2244.2	2257.2	2278.0	2272.8
30°	2302.6	2306.5	2292.2	2275.4	2272.8	2263.7	2275.4	2288.3	2302.6	2320.8	2316.9
32.5°	2368.8	2376.6	2358.4	2340.2	2328.6	2323.4	2332.5	2354.5	2374.0	2393.4	2385.6
35°	2479.0	2484.2	2467.4	2433.6	2412.9	2412.9	2420.7	2449.2	2480.3	2505.0	2495.9
37.5°	2634.7	2641.2	2611.4	2571.1	2540.0	2540.0	2550.4	2580.2	2626.9	2662.0	2649.0
40°	2824.1	2833.2	2795.6	2754.1	2724.2	2719.0	2732.0	2765.7	2809.8	2853.9	2839.7
42.5°	3052.4	3062.8	3013.5	2977.2	2953.8	2953.8	2960.3	2991.5	3031.7	3086.2	3082.3
45°	3344.3	3362.5	3295.0	3258.7	3236.6	3241.8	3245.7	3273.0	3309.3	3371.6	3369.0
47.5°	3692.0	3710.1	3638.8	3601.2	3597.3	3621.9	3606.4	3625.8	3645.3	3716.6	3695.9
50°	4086.3	4117.5	4068.2	4065.6	4073.4	4118.8	4082.4	4092.8	4070.8	4116.2	4088.9
52.5°	4568.9	4614.3	4605.2	4620.8	4707.7	4801.1	4718.1	4681.8	4598.7	4613.0	4565.0
55°	5154.0	5222.7	5235.7	5329.1	5526.3	5717.0	5540.6	5394.0	5217.5	5185.1	5134.5
57.5°	5819.5	5873.9	5936.2	6126.9	6495.3	6833.9	6495.3	6171.0	5893.4	5827.2	5780.5
60°	6535.5	6603.0	6662.7	6944.2	7491.6	7967.7	7481.2	6966.2	6599.1	6509.6	6431.8
62.5°	7304.8	7391.7	7433.2	7745.9	8384.1	8952.3	8393.2	7769.2	7361.9	7265.9	7188.1
65°	8042.9	8114.3	8161.0	8494.4	9104.1	9673.6	9145.6	8530.7	8111.7	7985.9	7923.6
67.5°	8386.7	8425.6	8539.8	8917.3	9560.7	10210.6	9669.7	8957.5	8489.2	8268.7	8271.3
70°	7883.4	7804.3	8079.3	8683.8	9615.2	10540.1	9739.7	8665.6	8092.2	7734.2	7819.8
72.5°	6091.9	5955.7	6433.1	7467.0	8992.5	10330.0	9054.8	7525.3	6730.1	6003.7	6184.0
75°	3314.5	3160.1	3819.1	5126.7	7171.2	8953.6	7335.9	5273.3	4252.4	3289.8	3503.9
77.5°	935.3	876.9	1408.8	2480.3	4313.4	6286.5	4479.4	2534.8	1670.9	991.1	1101.4
80°	286.7	277.6	376.2	747.2	1831.7	3010.9	1760.4	756.3	478.7	302.3	319.1
82.5°	169.9	155.7	186.8	272.4	467.0	945.7	454.0	284.1	228.3	153.1	166.0
85°	97.3	90.8	110.3	132.3	157.0	201.1	131.0	134.9	121.9	81.7	85.6
87.5°	40.2	36.3	42.8	41.5	36.3	46.7	35.0	41.5	49.3	32.4	29.8
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)