

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: P884492

Luminaire Tested: **NAV-SB5B-830-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884492  
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-SB5B-830-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

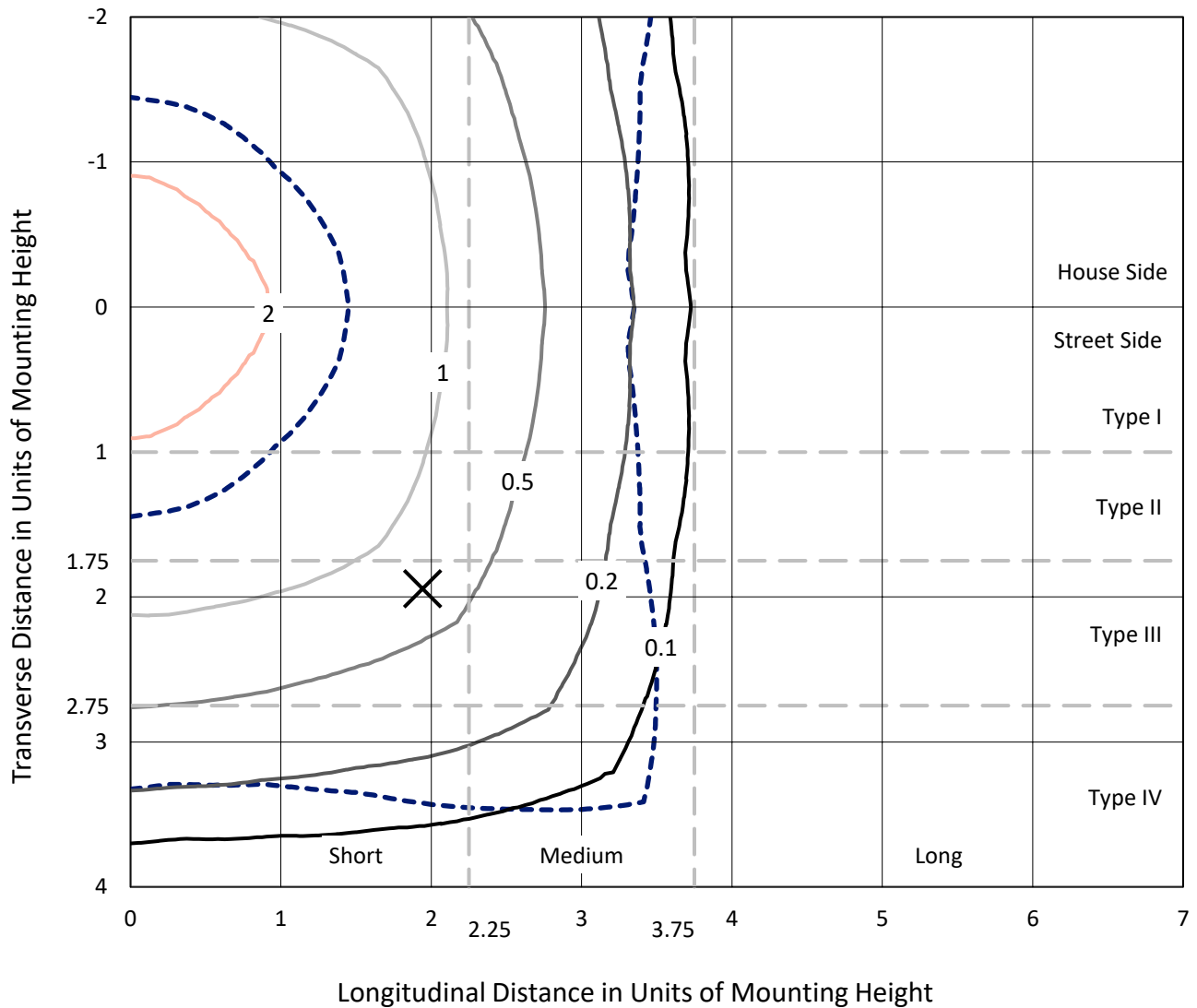
Lumens per Lamp: N/A  
Luminaire Lumens: 25290 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): 120.0  
Input Current (Ain): 1.547  
Voltage Rise (V): NR  
Power Factor: 0.992  
Total Harmonic Distortion (THDi): 11.125  
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

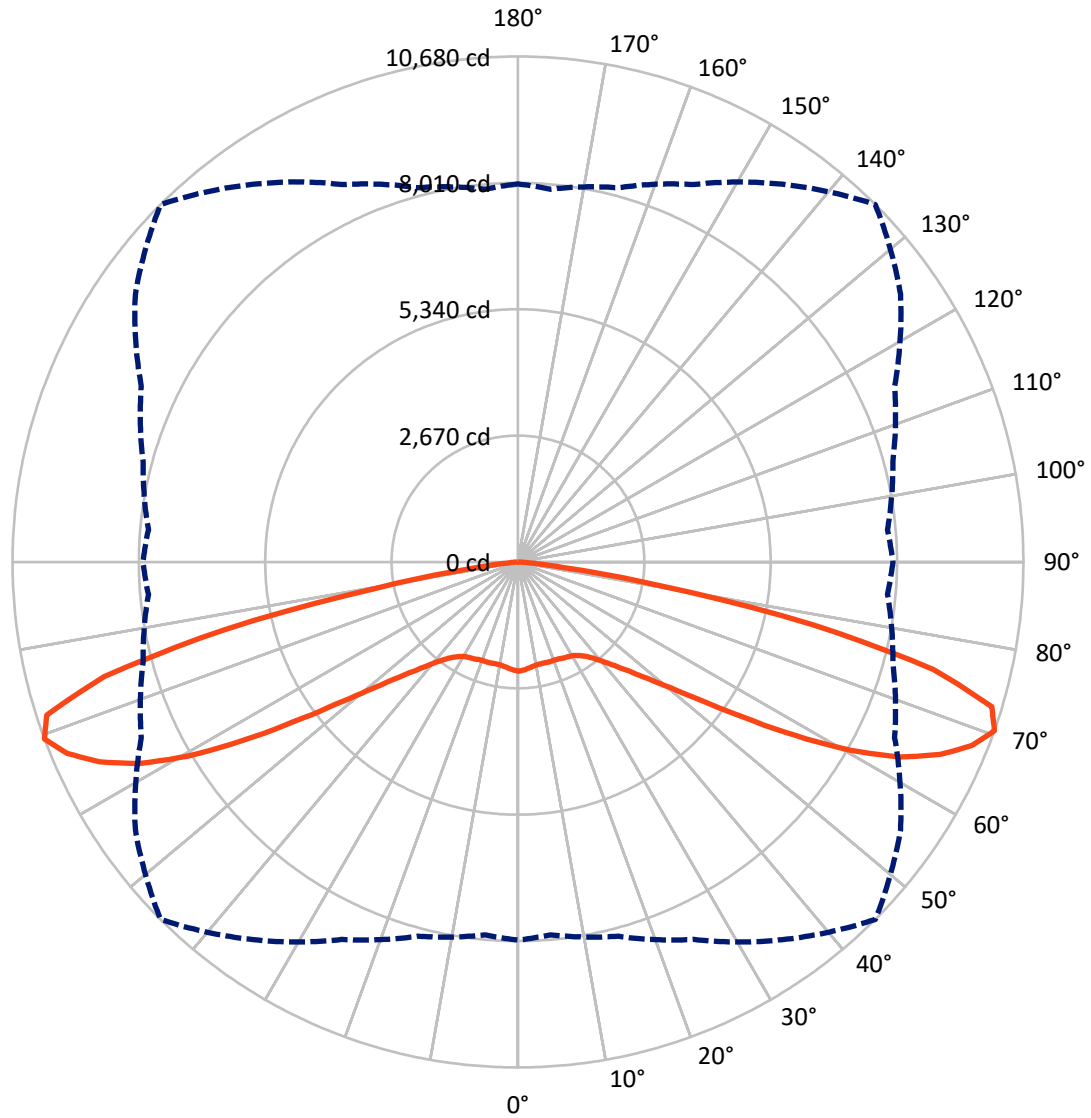
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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CATALOG NUMBER: NAV-SB5B-830-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: NAV-SB5B-830-U-5WQ

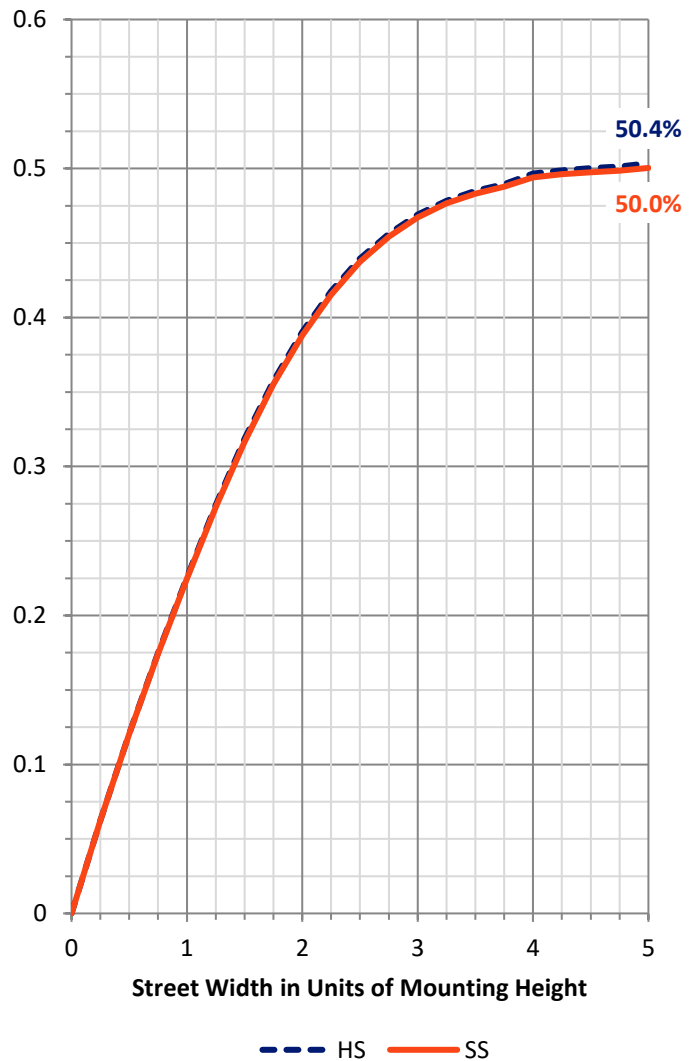
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12645.0	0.0	12645.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12645.0	0.0	12645.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25290.0	0.0	25290.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.6	0.8
10°-20°	630.1	2.5
20°-30°	1048.6	4.1
30°-40°	1585.8	6.3
40°-50°	2635.3	10.4
50°-60°	4972.6	19.7
60°-70°	8396.5	33.2
70°-80°	5517.4	21.8
80°-90°	289.1	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°	25290.0	100.0
0°-180°	25290.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P884492

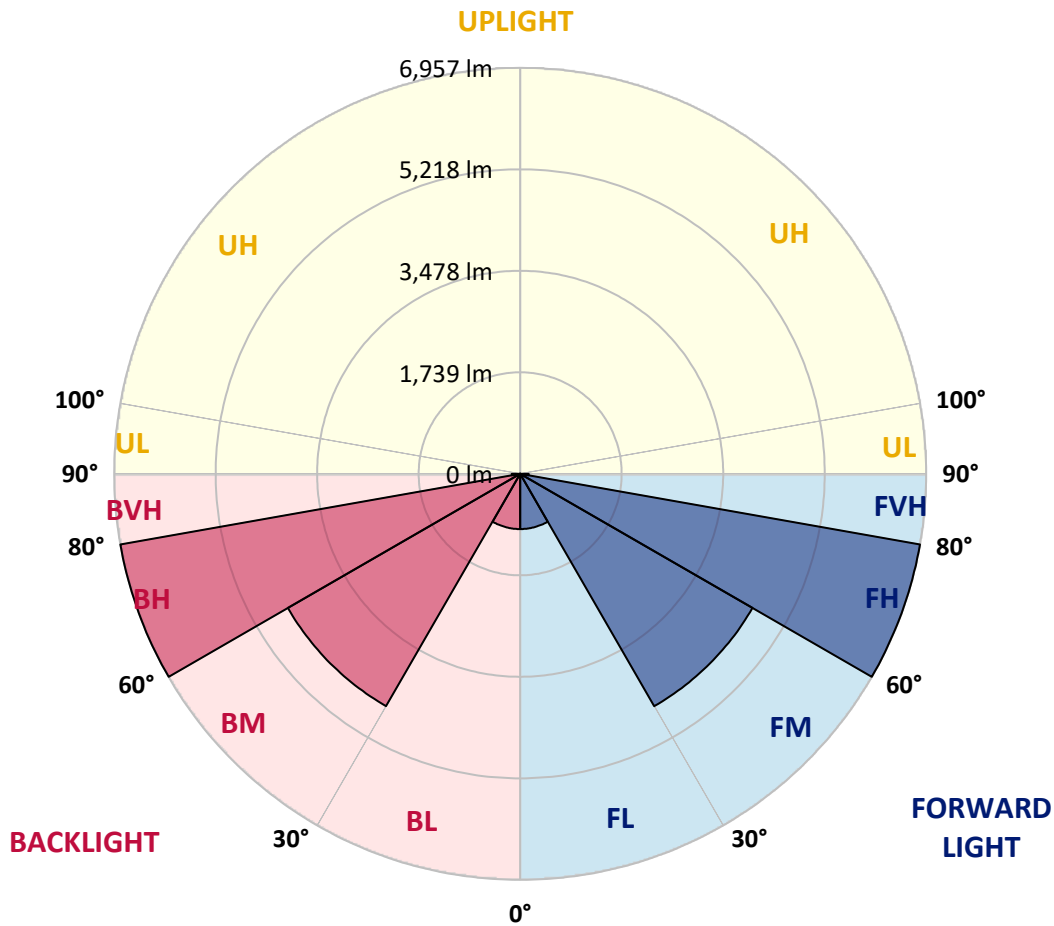
CATALOG NUMBER: NAV-SB5B-830-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.7	3.7			
FM (30°-60°)	4596.9	18.2			
FH (60°-80°)	6956.9	27.5			G3/7500
FVH (80°-90°)	144.5	0.6			G2/225
BL (0°-30°)	946.7	3.7	B2/1000		
BM (30°-60°)	4596.9	18.2	B3/5000		
BH (60°-80°)	6956.9	27.5	B5		G3/7500
BVH (80°-90°)	144.5	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°	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0	2307.0
2.5°	2292.5	2299.1	2296.4	2291.2	2291.2	2287.2	2291.2	2293.8	2297.8	2300.4	2299.1
5°	2262.3	2267.5	2266.2	2262.3	2263.6	2259.6	2262.3	2266.2	2268.8	2270.2	2270.2
7.5°	2236.0	2241.2	2238.6	2232.0	2232.0	2228.1	2229.4	2233.3	2237.3	2238.6	2238.6
10°	2229.4	2234.7	2226.8	2216.3	2212.3	2207.1	2208.4	2212.3	2220.2	2224.1	2224.1
12.5°	2232.0	2236.0	2228.1	2212.3	2208.4	2203.1	2203.1	2207.1	2217.6	2222.8	2224.1
15°	2239.9	2243.9	2232.0	2214.9	2211.0	2207.1	2205.7	2211.0	2222.8	2232.0	2233.3
17.5°	2254.4	2258.3	2239.9	2216.3	2211.0	2212.3	2211.0	2214.9	2233.3	2250.4	2250.4
20°	2267.5	2270.2	2245.2	2216.3	2211.0	2212.3	2211.0	2218.9	2242.5	2266.2	2267.5
22.5°	2271.5	2274.1	2250.4	2225.5	2221.5	2222.8	2221.5	2229.4	2251.7	2275.4	2275.4
25°	2272.8	2276.7	2258.3	2238.6	2245.2	2247.8	2245.2	2246.5	2263.6	2284.6	2283.3
27.5°	2292.5	2297.8	2280.7	2263.6	2267.5	2266.2	2270.2	2274.1	2287.2	2308.3	2303.0
30°	2333.2	2337.2	2322.7	2305.6	2303.0	2293.8	2305.6	2318.8	2333.2	2351.7	2347.7
32.5°	2400.3	2408.2	2389.8	2371.4	2359.5	2354.3	2363.5	2385.8	2405.5	2425.3	2417.4
35°	2512.0	2517.3	2500.2	2466.0	2445.0	2445.0	2452.9	2481.8	2513.3	2538.3	2529.1
37.5°	2669.8	2676.3	2646.1	2605.3	2573.8	2573.8	2584.3	2614.6	2661.9	2697.4	2684.2
40°	2861.7	2870.9	2832.8	2790.7	2760.5	2755.2	2768.3	2802.5	2847.2	2891.9	2877.5
42.5°	3093.0	3103.5	3053.6	3016.8	2993.1	2993.1	2999.7	3031.2	3072.0	3127.2	3123.3
45°	3388.8	3407.2	3338.8	3302.0	3279.7	3284.9	3288.9	3316.5	3353.3	3416.4	3413.8
47.5°	3741.1	3759.5	3687.2	3649.1	3645.1	3670.1	3654.3	3674.0	3693.8	3766.1	3745.0
50°	4140.7	4172.2	4122.3	4119.7	4127.5	4173.6	4136.7	4147.3	4124.9	4170.9	4143.3
52.5°	4629.7	4675.7	4666.5	4682.3	4770.3	4865.0	4780.9	4744.1	4659.9	4674.4	4625.7
55°	5222.5	5292.2	5305.3	5400.0	5599.8	5793.0	5614.3	5465.7	5286.9	5254.1	5202.8
57.5°	5896.9	5952.1	6015.2	6208.4	6581.7	6924.8	6581.7	6253.1	5971.8	5904.8	5857.4
60°	6622.5	6690.8	6751.3	7036.5	7591.3	8073.7	7580.8	7058.9	6686.9	6596.2	6517.3
62.5°	7402.0	7490.1	7532.1	7848.9	8495.6	9071.4	8504.9	7872.6	7459.8	7362.5	7283.7
65°	8149.9	8222.2	8269.6	8607.4	9225.2	9802.3	9267.3	8644.2	8219.6	8092.1	8029.0
67.5°	8498.3	8537.7	8653.4	9035.9	9687.9	10346.5	9798.3	9076.7	8602.1	8378.7	8381.3
70°	7988.3	7908.1	8186.7	8799.3	9743.1	10680.4	9869.3	8780.9	8199.9	7837.1	7923.8
72.5°	6172.9	6034.9	6518.6	7566.3	9112.2	10467.4	9175.2	7625.4	6819.7	6083.5	6266.2
75°	3358.6	3202.1	3869.9	5194.9	7266.6	9072.7	7433.5	5343.5	4308.9	3333.6	3550.5
77.5°	947.8	888.6	1427.6	2513.3	4370.7	6370.1	4539.0	2568.5	1693.1	1004.3	1116.0
80°	290.5	281.3	381.2	757.2	1856.1	3051.0	1783.8	766.4	485.1	306.3	323.4
82.5°	172.2	157.7	189.3	276.0	473.2	958.3	460.1	287.9	231.4	155.1	168.3
85°	98.6	92.0	111.7	134.1	159.1	203.7	132.8	136.7	123.6	82.8	86.8
87.5°	40.7	36.8	43.4	42.1	36.8	47.3	35.5	42.1	50.0	32.9	30.2
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)