

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: P885162

Luminaire Tested: **NAV-SB6B-827-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885162  
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-SB6B-827-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

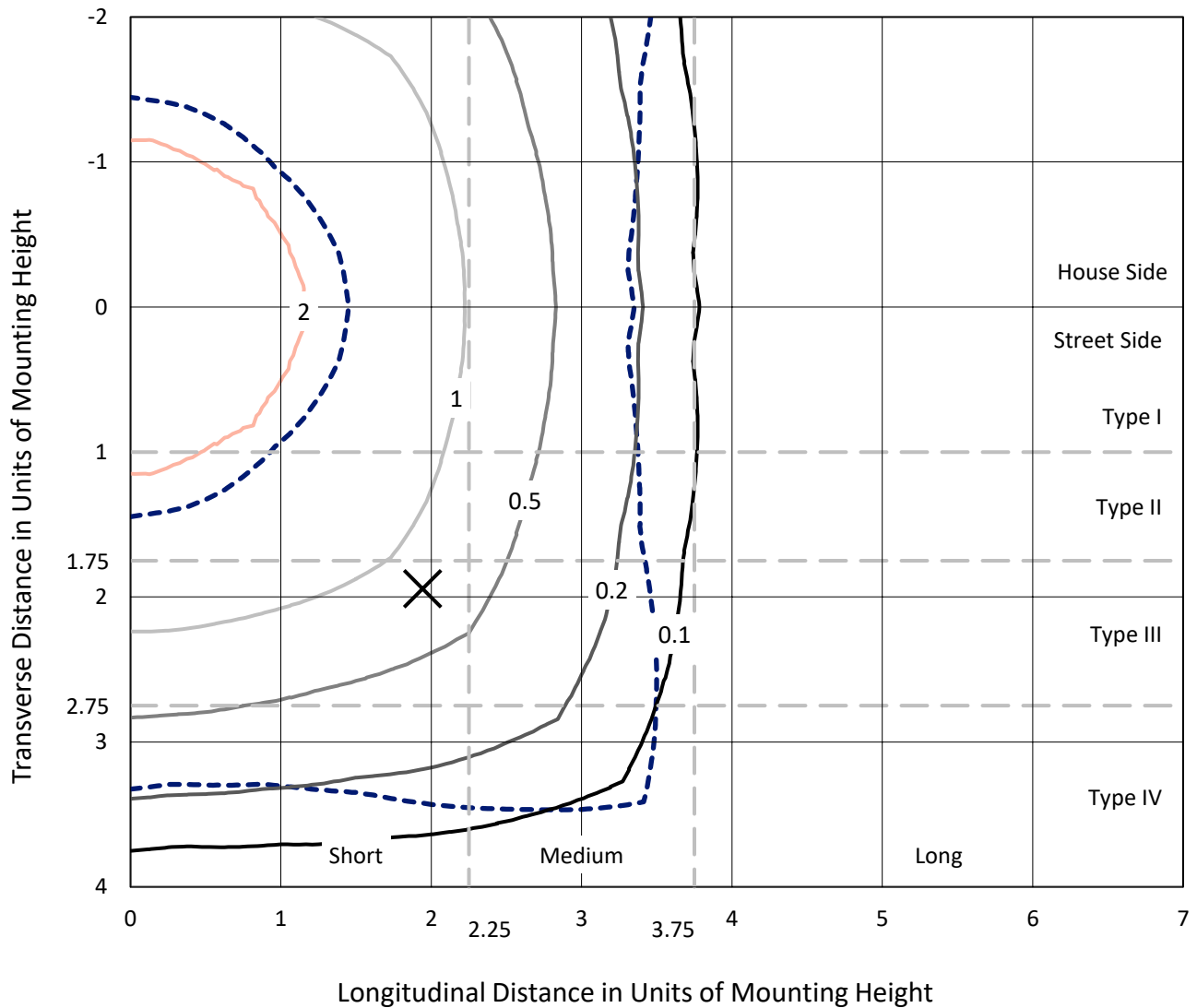
Lumens per Lamp: N/A  
Luminaire Lumens: 28090 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 1.838  
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



REPORT NUMBER: P885162  
 CATALOG NUMBER: NAV-SB6B-827-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

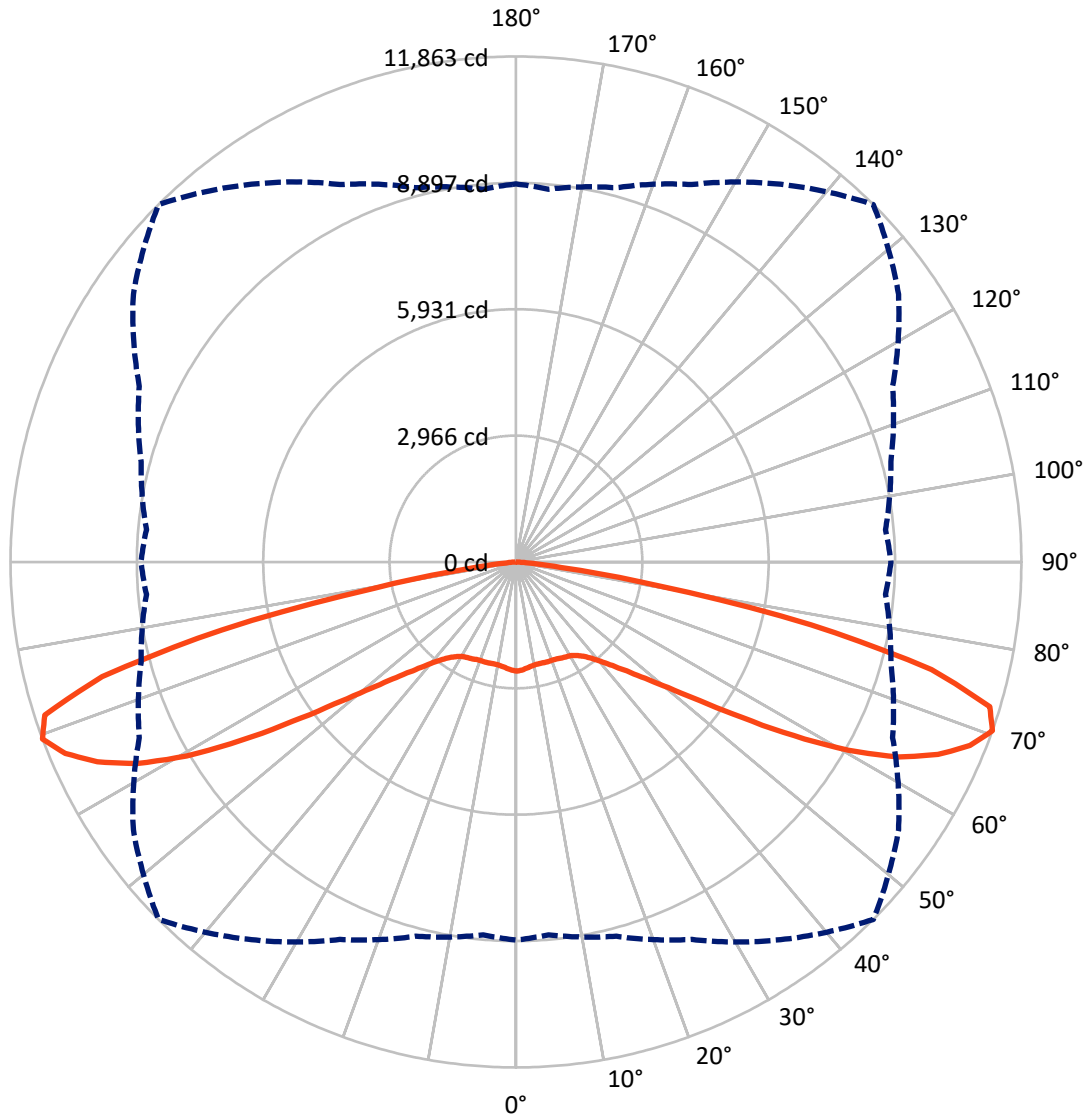
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P885162  
CATALOG NUMBER: NAV-SB6B-827-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P885162  
 CATALOG NUMBER: NAV-SB6B-827-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14045.0	0.0	14045.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14045.0	0.0	14045.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28090.0	0.0	28090.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.4	0.8
10°-20°	699.9	2.5
20°-30°	1164.7	4.1
30°-40°	1761.4	6.3
40°-50°	2927.0	10.4
50°-60°	5523.2	19.7
60°-70°	9326.1	33.2
70°-80°	6128.2	21.8
80°-90°	321.1	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°	28090.0	100.0
0°-180°	28090.0	100.0



REPORT NUMBER: P885162

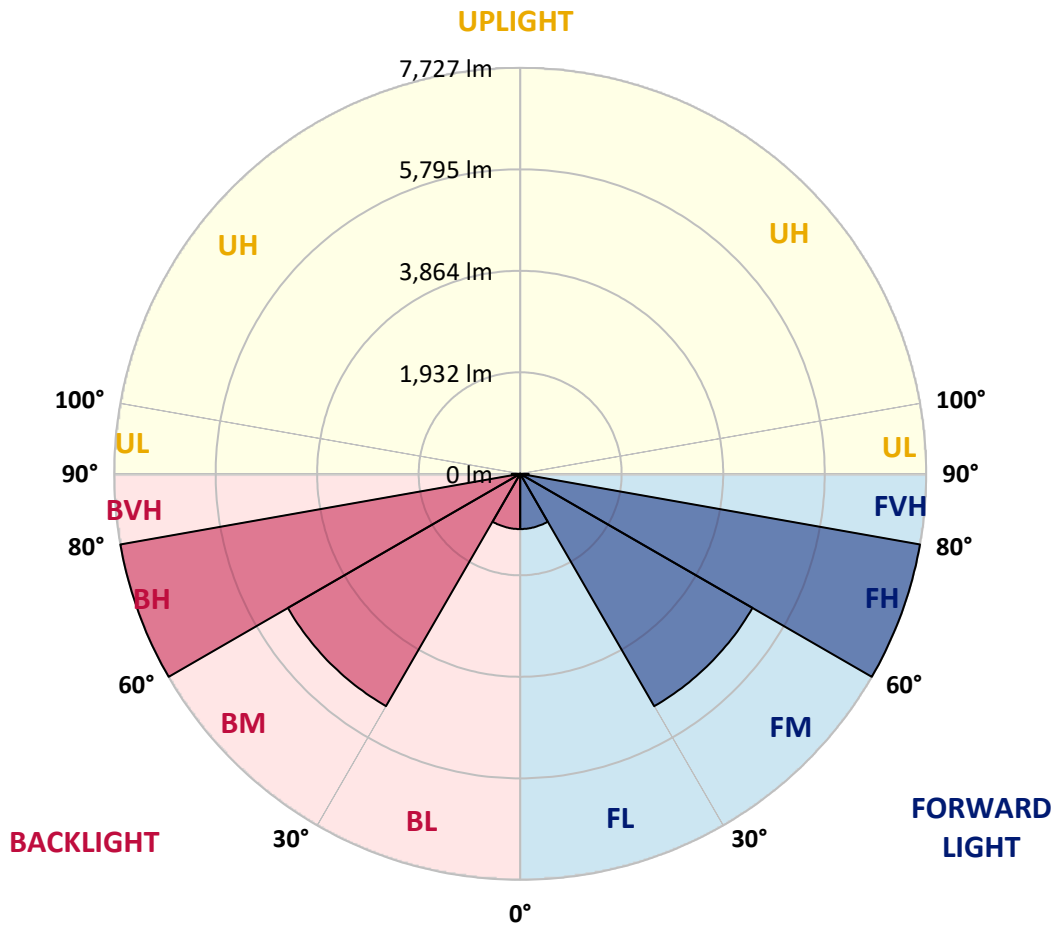
CATALOG NUMBER: NAV-SB6B-827-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1051.5	3.7			
FM (30°-60°)	5105.8	18.2			
FH (60°-80°)	7727.2	27.5			G4/12000
FVH (80°-90°)	160.5	0.6			G2/225
BL (0°-30°)	1051.5	3.7	B3/2500		
BM (30°-60°)	5105.8	18.2	B4/8500		
BH (60°-80°)	7727.2	27.5	B5		G4/12000
BVH (80°-90°)	160.5	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-G4**

Type V Short



REPORT NUMBER: P885162  
 CATALOG NUMBER: NAV-SB6B-827-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4
2.5°	2546.3	2553.6	2550.7	2544.9	2544.9	2540.5	2544.9	2547.8	2552.2	2555.1	2553.6
5°	2512.7	2518.6	2517.1	2512.7	2514.2	2509.8	2512.7	2517.1	2520.0	2521.5	2521.5
7.5°	2483.5	2489.4	2486.5	2479.2	2479.2	2474.8	2476.2	2480.6	2485.0	2486.5	2486.5
10°	2476.2	2482.1	2473.3	2461.6	2457.3	2451.4	2452.9	2457.3	2466.0	2470.4	2470.4
12.5°	2479.2	2483.5	2474.8	2457.3	2452.9	2447.0	2447.0	2451.4	2463.1	2468.9	2470.4
15°	2487.9	2492.3	2479.2	2460.2	2455.8	2451.4	2450.0	2455.8	2468.9	2479.2	2480.6
17.5°	2504.0	2508.4	2487.9	2461.6	2455.8	2457.3	2455.8	2460.2	2480.6	2499.6	2499.6
20°	2518.6	2521.5	2493.8	2461.6	2455.8	2457.3	2455.8	2464.6	2490.8	2517.1	2518.6
22.5°	2523.0	2525.9	2499.6	2471.9	2467.5	2468.9	2467.5	2476.2	2501.1	2527.3	2527.3
25°	2524.4	2528.8	2508.4	2486.5	2493.8	2496.7	2493.8	2495.2	2514.2	2537.6	2536.1
27.5°	2546.3	2552.2	2533.2	2514.2	2518.6	2517.1	2521.5	2525.9	2540.5	2563.8	2558.0
30°	2591.6	2596.0	2579.9	2560.9	2558.0	2547.8	2560.9	2575.5	2591.6	2612.0	2607.6
32.5°	2666.0	2674.8	2654.4	2633.9	2620.8	2614.9	2625.2	2650.0	2671.9	2693.8	2685.0
35°	2790.1	2796.0	2777.0	2739.0	2715.7	2715.7	2724.4	2756.6	2791.6	2819.3	2809.1
37.5°	2965.3	2972.6	2939.1	2893.8	2858.8	2858.8	2870.4	2904.0	2956.6	2996.0	2981.4
40°	3178.5	3188.7	3146.4	3099.7	3066.1	3060.2	3074.8	3112.8	3162.5	3212.1	3196.0
42.5°	3435.5	3447.2	3391.7	3350.8	3324.5	3324.5	3331.8	3366.9	3412.1	3473.4	3469.1
45°	3764.0	3784.4	3708.5	3667.6	3642.8	3648.6	3653.0	3683.7	3724.6	3794.6	3791.7
47.5°	4155.3	4175.7	4095.4	4053.1	4048.7	4076.4	4058.9	4080.8	4102.7	4183.0	4159.7
50°	4599.1	4634.2	4578.7	4575.8	4584.5	4635.6	4594.8	4606.4	4581.6	4632.7	4602.1
52.5°	5142.3	5193.4	5183.1	5200.7	5298.5	5403.6	5310.2	5269.3	5175.8	5191.9	5137.9
55°	5800.7	5878.1	5892.7	5997.9	6219.8	6434.4	6235.8	6070.9	5872.3	5835.8	5778.8
57.5°	6549.7	6611.1	6681.2	6895.8	7310.4	7691.5	7310.4	6945.4	6633.0	6558.5	6505.9
60°	7355.7	7431.6	7498.8	7815.6	8431.7	8967.6	8420.1	7840.4	7427.2	7326.5	7238.9
62.5°	8221.5	8319.3	8366.0	8717.9	9436.3	10075.7	9446.5	8744.2	8285.7	8177.7	8090.1
65°	9052.3	9132.6	9185.1	9560.4	10246.6	10887.5	10293.3	9601.2	9129.6	8988.0	8917.9
67.5°	9439.2	9483.0	9611.5	10036.3	10760.5	11492.0	10883.2	10081.6	9554.5	9306.3	9309.2
70°	8872.7	8783.6	9093.1	9773.5	10821.8	11862.8	10962.0	9753.1	9107.7	8704.8	8801.1
72.5°	6856.4	6703.1	7240.3	8404.0	10121.0	11626.3	10191.1	8469.7	7574.7	6757.1	6960.0
75°	3730.4	3556.7	4298.4	5770.1	8071.1	10077.2	8256.5	5935.1	4786.0	3702.7	3943.6
77.5°	1052.7	987.0	1585.6	2791.6	4854.6	7075.4	5041.5	2852.9	1880.5	1115.5	1239.6
80°	322.7	312.4	423.4	841.0	2061.6	3388.8	1981.3	851.2	538.8	340.2	359.2
82.5°	191.3	175.2	210.2	306.6	525.6	1064.4	511.0	319.7	257.0	172.3	186.9
85°	109.5	102.2	124.1	148.9	176.7	226.3	147.5	151.8	137.2	92.0	96.4
87.5°	45.3	40.9	48.2	46.7	40.9	52.6	39.4	46.7	55.5	36.5	33.6
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)