

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: P883825

Luminaire Tested: **NAV-SB4B-835-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883825  
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-SB4B-835-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19048 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

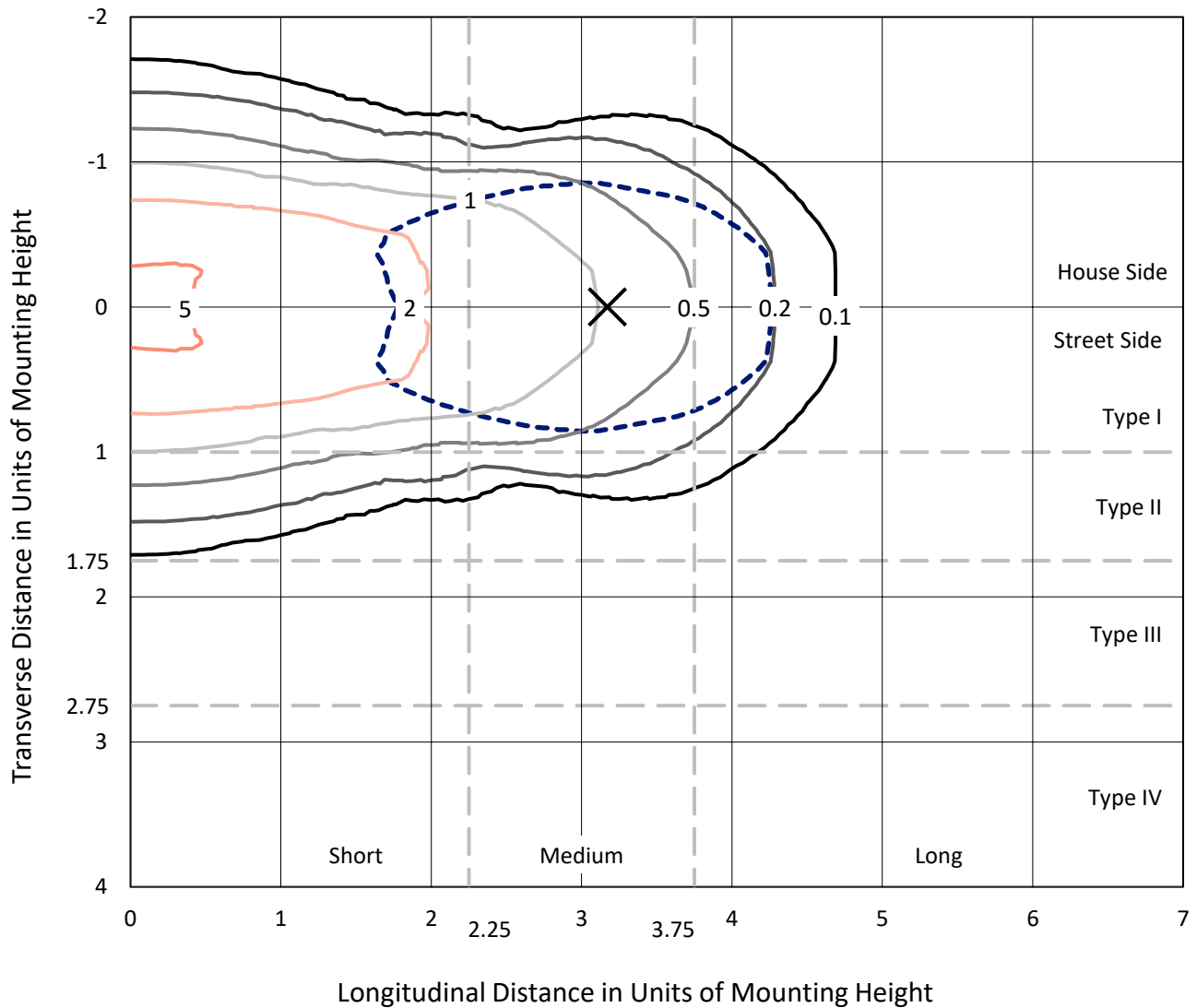
Input Watts (W): 147  
Input Voltage (V): 120.0  
Input Current (Ain): 1.255  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P883825  
 CATALOG NUMBER: NAV-SB4B-835-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

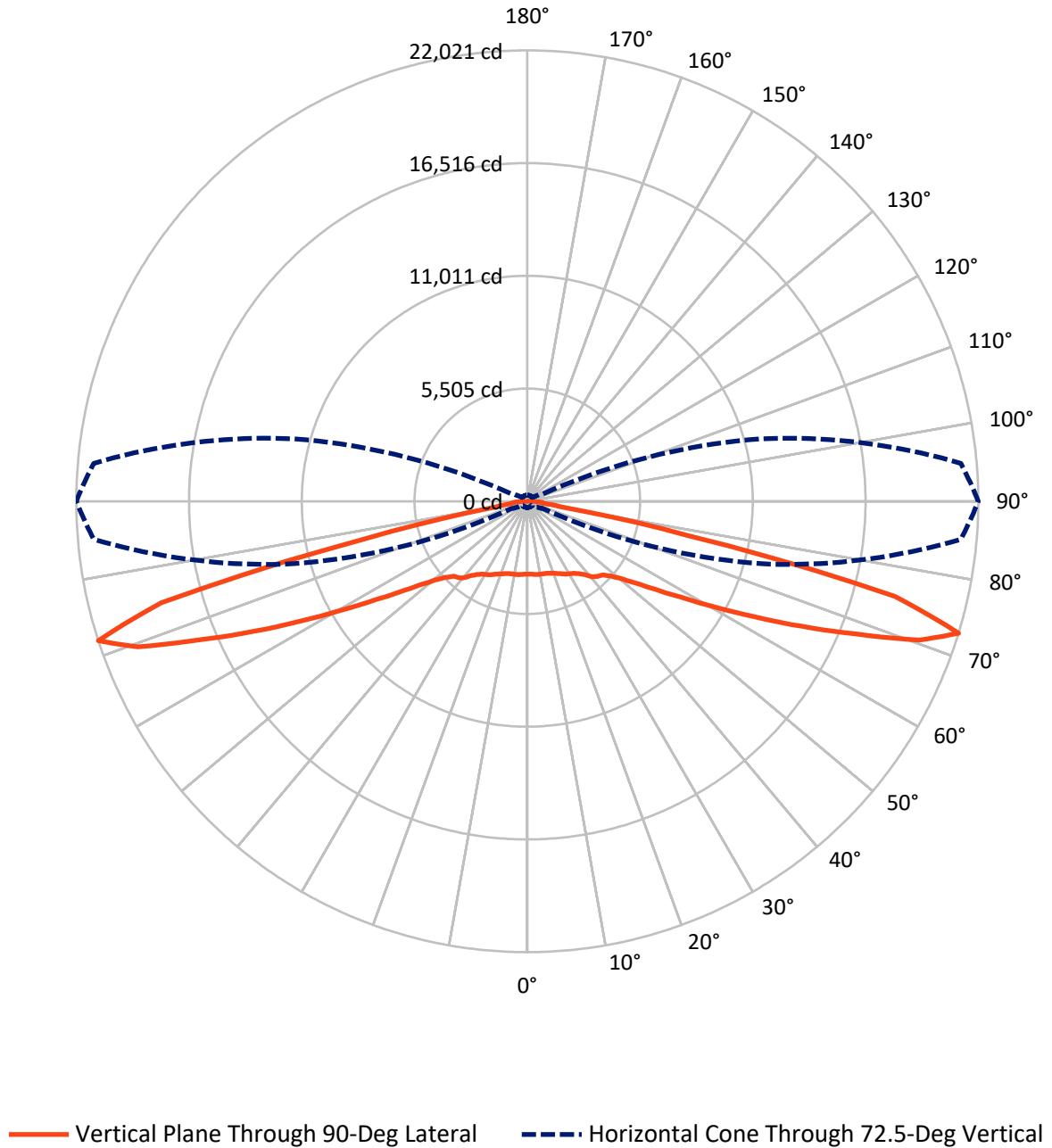
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type I - Short - N/A

REPORT NUMBER: P883825  
CATALOG NUMBER: NAV-SB4B-835-U-T1

### Luminous Intensity Polar Plot



REPORT NUMBER: P883825  
 CATALOG NUMBER: NAV-SB4B-835-U-T1

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9524.0	0.0	9524.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9524.0	0.0	9524.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19048.0	0.0	19048.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.1	1.8
10°-20°	1055.2	5.5
20°-30°	1759.5	9.2
30°-40°	2419.9	12.7
40°-50°	2955.3	15.5
50°-60°	3418.1	17.9
60°-70°	4075.6	21.4
70°-80°	2844.5	14.9
80°-90°	174.7	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°	19048.0	100.0
0°-180°	19048.0	100.0

**Coefficient of Utilization**



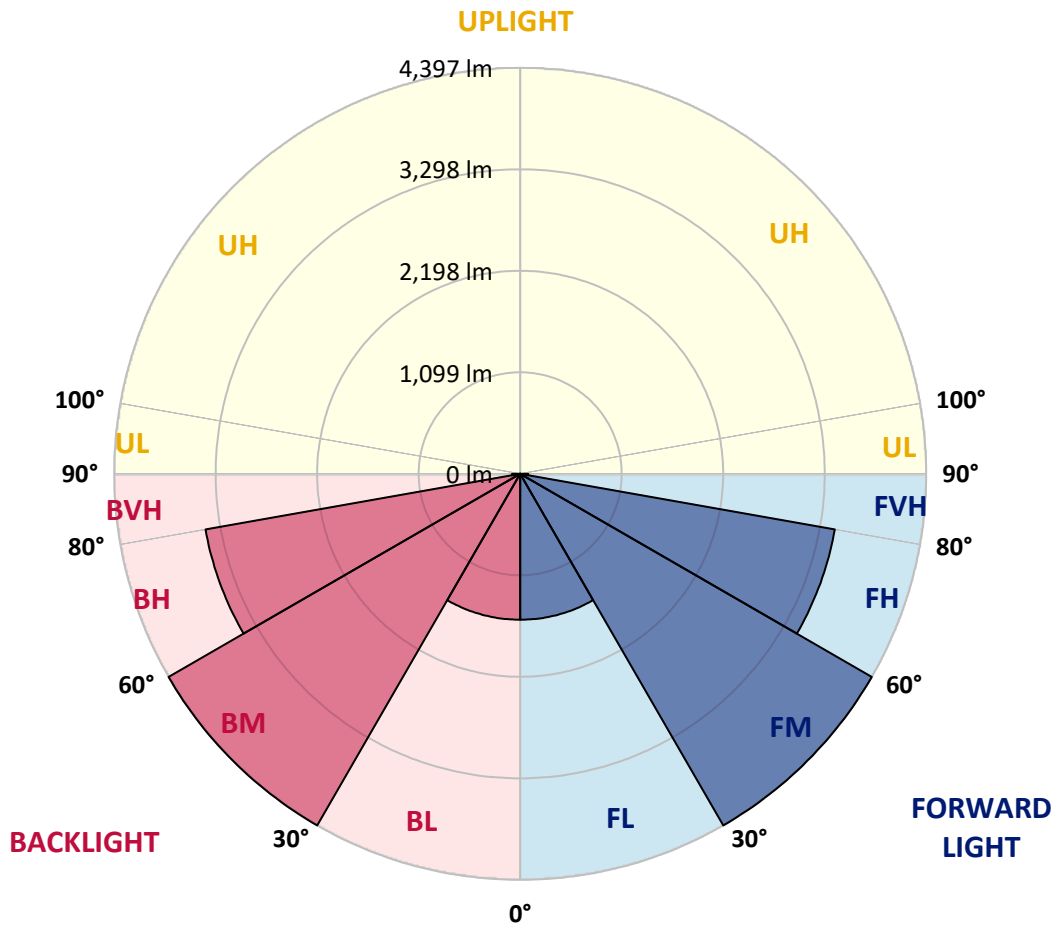
REPORT NUMBER: P883825  
 CATALOG NUMBER: NAV-SB4B-835-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.9	8.3			
FM (30°-60°)	4396.7	23.1			
FH (60°-80°)	3460.0	18.2			G2/5000
FVH (80°-90°)	87.4	0.5			G1/100
BL (0°-30°)	1579.9	8.3	B3/2500		
BM (30°-60°)	4396.7	23.1	B3/5000		
BH (60°-80°)	3460.0	18.2	B4/5000		G4/5000
BVH (80°-90°)	87.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short



REPORT NUMBER: P883825  
 CATALOG NUMBER: NAV-SB4B-835-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3559.3	3559.3	3559.3	3559.3	3559.3	3559.3	3559.3	3559.3	3559.3	3559.3	3559.3
2.5°	3562.4	3566.4	3566.4	3563.4	3570.5	3564.4	3564.4	3561.3	3564.4	3561.3	3561.3
5°	3580.6	3585.6	3587.7	3586.7	3595.8	3590.7	3590.7	3586.7	3587.7	3584.6	3584.6
7.5°	3615.0	3622.1	3626.1	3631.2	3644.4	3638.3	3634.2	3622.1	3617.0	3608.9	3608.9
10°	3626.1	3634.2	3647.4	3673.7	3704.1	3705.1	3692.9	3662.6	3639.3	3621.1	3618.0
12.5°	3591.7	3602.8	3630.2	3683.8	3751.7	3779.0	3759.8	3709.1	3663.6	3631.2	3626.1
15°	3548.2	3560.3	3601.8	3682.8	3783.0	3846.8	3844.8	3778.0	3705.1	3654.5	3646.4
17.5°	3480.4	3492.5	3552.2	3665.6	3807.3	3912.6	3941.0	3872.1	3769.9	3702.1	3690.9
20°	3357.9	3369.0	3452.0	3610.9	3815.4	3982.5	4056.4	3995.6	3868.1	3776.0	3758.7
22.5°	3198.9	3216.1	3313.3	3516.8	3796.2	4055.4	4188.0	4146.5	3982.5	3854.9	3831.6
25°	3028.9	3047.1	3160.5	3401.4	3746.6	4108.0	4343.9	4317.5	4112.0	3953.1	3920.7
27.5°	2882.1	2901.3	3024.8	3287.0	3669.7	4128.2	4497.7	4510.9	4269.0	4061.4	4027.0
30°	2766.7	2784.9	2916.5	3194.9	3570.5	4108.0	4632.4	4723.5	4428.9	4155.6	4106.0
32.5°	2640.1	2663.4	2802.1	3082.5	3453.0	4059.4	4749.8	4953.3	4614.2	4256.8	4194.0
35°	2480.2	2501.4	2647.2	2928.6	3299.2	3981.5	4848.0	5208.4	4879.4	4410.7	4340.8
37.5°	2285.8	2306.1	2450.8	2736.3	3146.3	3872.1	4922.9	5495.9	5195.2	4632.4	4539.2
40°	2090.4	2109.7	2245.3	2521.7	2963.1	3732.4	4949.2	5777.3	5557.6	4937.1	4837.9
42.5°	1911.3	1928.5	2053.0	2310.1	2757.6	3554.3	4914.8	6022.3	5882.6	5149.7	5022.1
45°	1746.3	1761.4	1871.8	2111.7	2544.0	3337.6	4811.6	6285.5	6269.3	5301.5	5129.4
47.5°	1558.0	1573.1	1687.5	1919.4	2330.4	3083.5	4636.4	6544.7	6806.8	5645.7	5447.3
50°	1328.2	1341.3	1458.8	1697.7	2108.7	2813.2	4393.5	6748.1	7485.1	6167.1	5918.0
52.5°	1055.9	1070.0	1184.4	1423.3	1845.5	2522.7	4073.6	6880.7	8268.6	6928.3	6621.6
55°	785.6	795.7	894.9	1109.5	1519.5	2191.7	3672.7	6918.2	9157.5	7969.0	7585.3
57.5°	569.9	576.0	639.8	799.7	1152.0	1777.6	3185.8	6821.0	10215.3	9303.2	8820.4
60°	461.6	463.6	482.9	553.7	800.7	1309.9	2597.6	6487.0	11363.3	11023.2	10414.8
62.5°	419.1	419.1	424.2	443.4	541.6	864.5	1886.0	5794.5	12594.3	13196.6	12381.7
65°	389.7	389.7	391.8	400.9	427.2	550.7	1190.5	4666.8	13631.9	15742.6	14712.1
67.5°	363.4	364.4	363.4	366.5	381.6	407.0	690.4	3223.2	14190.7	18380.7	17268.2
70°	336.1	338.1	333.1	333.1	345.2	346.2	432.3	1767.5	13727.1	20591.6	20299.1
72.5°	303.7	306.7	298.6	296.6	305.7	301.7	325.0	848.3	11785.4	21251.7	22021.0
75°	275.4	279.4	261.2	256.1	256.1	253.1	264.2	435.3	7649.1	17336.0	18542.7
77.5°	250.0	258.1	228.8	212.6	208.5	199.4	215.6	266.2	3345.7	8139.1	7970.0
80°	206.5	217.6	188.3	169.1	162.0	151.8	170.1	186.3	995.1	1890.0	1810.0
82.5°	153.9	158.9	133.6	120.5	114.4	107.3	127.6	129.6	323.9	669.1	756.2
85°	98.2	100.2	82.0	70.9	67.8	64.8	81.0	70.9	123.5	492.0	714.7
87.5°	34.4	39.5	31.4	28.3	30.4	25.3	37.5	21.3	34.4	347.2	430.2
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)