

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: P885185

Luminaire Tested: **NAV-SB6B-835-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885185  
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-SB6B-835-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

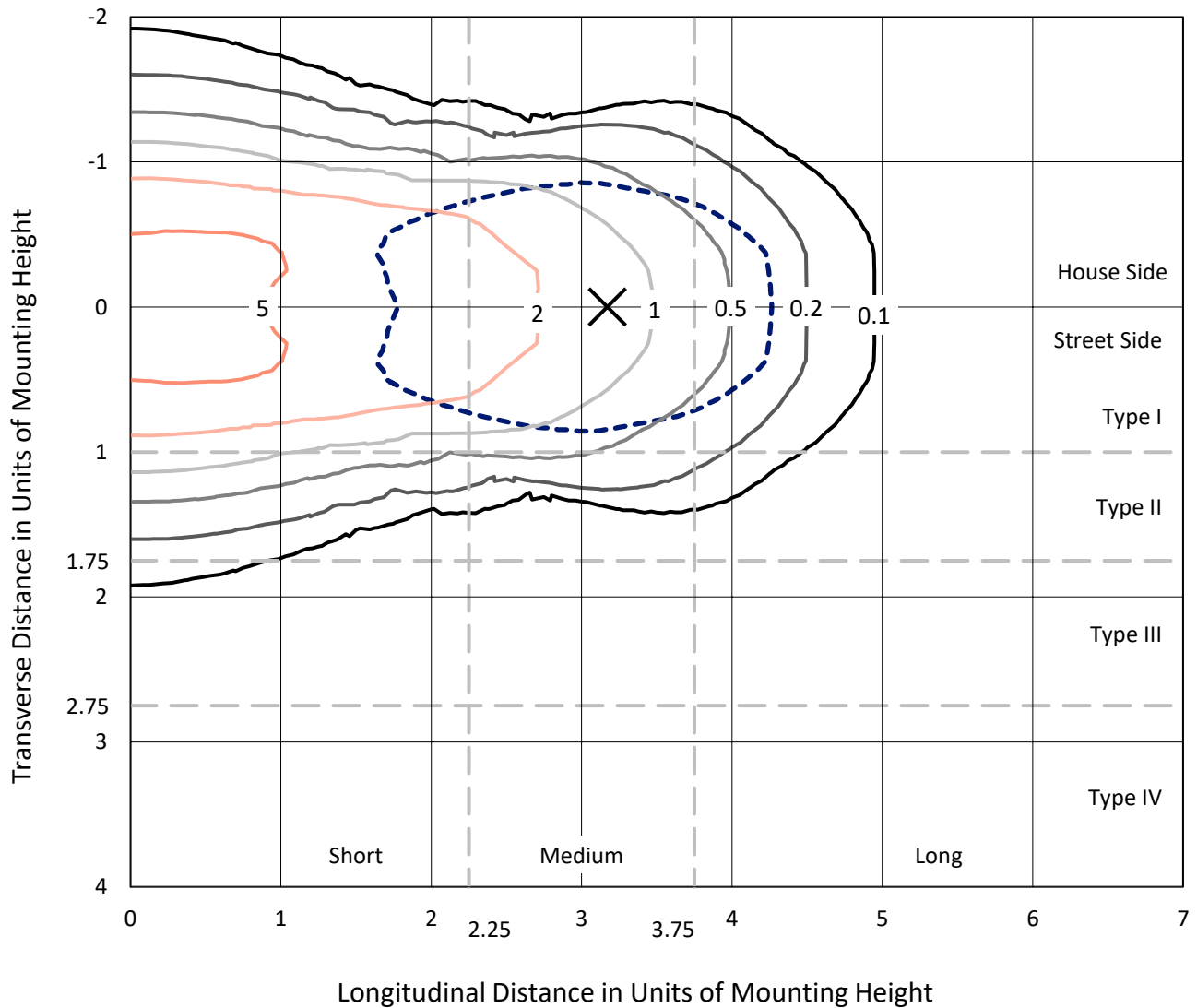
Lumens per Lamp: N/A  
Luminaire Lumens: 28529 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

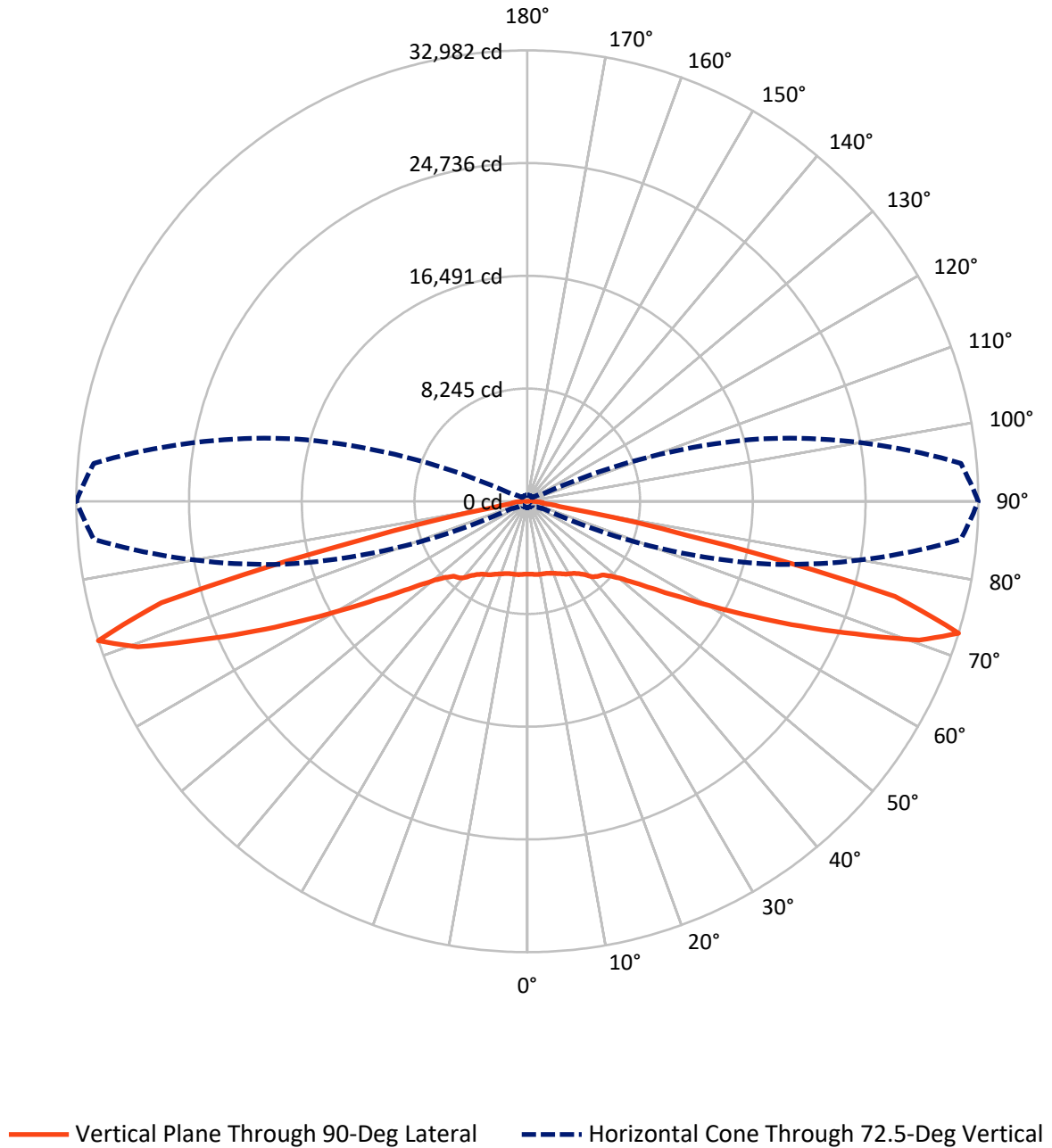
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14264.5	0.0	14264.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14264.5	0.0	14264.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28529.0	0.0	28529.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.9	1.8
10°-20°	1580.5	5.5
20°-30°	2635.3	9.2
30°-40°	3624.3	12.7
40°-50°	4426.3	15.5
50°-60°	5119.5	17.9
60°-70°	6104.2	21.4
70°-80°	4260.3	14.9
80°-90°	261.7	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°	28529.0	100.0
0°-180°	28529.0	100.0

**Coefficient of Utilization**



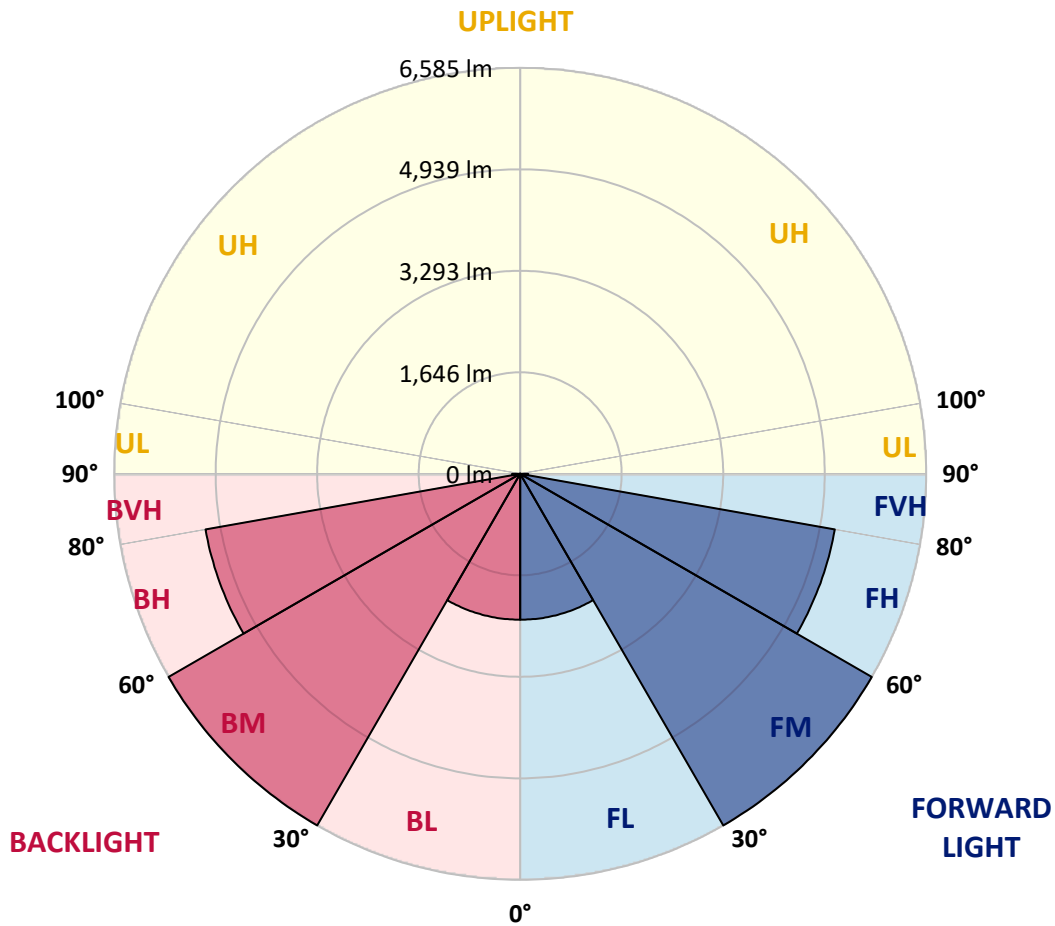
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2366.3	8.3			
FM (30°-60°)	6585.1	23.1			
FH (60°-80°)	5182.2	18.2			G3/7500
FVH (80°-90°)	130.8	0.5			G2/225
BL (0°-30°)	2366.3	8.3	B3/2500		
BM (30°-60°)	6585.1	23.1	B4/8500		
BH (60°-80°)	5182.2	18.2	B5		G5
BVH (80°-90°)	130.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9
2.5°	5335.5	5341.6	5341.6	5337.0	5347.6	5338.5	5338.5	5334.0	5338.5	5334.0	5334.0
5°	5362.8	5370.4	5373.4	5371.9	5385.5	5377.9	5377.9	5371.9	5373.4	5368.8	5368.8
7.5°	5414.3	5424.9	5431.0	5438.6	5458.3	5449.2	5443.1	5424.9	5417.4	5405.2	5405.2
10°	5431.0	5443.1	5462.9	5502.3	5547.8	5549.3	5531.1	5485.6	5450.7	5423.4	5418.9
12.5°	5379.5	5396.1	5437.1	5517.4	5619.0	5660.0	5631.2	5555.3	5487.1	5438.6	5431.0
15°	5314.3	5332.5	5394.6	5515.9	5666.0	5761.5	5758.5	5658.4	5549.3	5473.5	5461.3
17.5°	5212.7	5230.9	5320.3	5490.1	5702.4	5860.1	5902.6	5799.4	5646.3	5544.7	5528.1
20°	5029.2	5045.9	5170.2	5408.3	5714.5	5964.7	6075.4	5984.4	5793.4	5655.4	5629.6
22.5°	4791.2	4817.0	4962.5	5267.3	5685.7	6073.9	6272.5	6210.3	5964.7	5773.7	5738.8
25°	4536.5	4563.7	4733.6	5094.4	5611.4	6152.7	6506.0	6466.6	6158.8	5920.7	5872.2
27.5°	4316.6	4345.4	4530.4	4923.1	5496.2	6183.0	6736.5	6756.2	6393.8	6083.0	6031.4
30°	4143.8	4171.1	4368.2	4785.1	5347.6	6152.7	6938.1	7074.6	6633.4	6224.0	6149.7
32.5°	3954.2	3989.1	4196.8	4616.8	5171.7	6079.9	7114.0	7418.7	6910.8	6375.6	6281.6
35°	3714.7	3746.5	3964.9	4386.4	4941.3	5963.2	7261.1	7800.8	7308.1	6606.1	6501.4
37.5°	3423.6	3453.9	3670.7	4098.3	4712.3	5799.4	7373.3	8231.4	7781.1	6938.1	6798.6
40°	3130.9	3159.8	3362.9	3776.8	4437.9	5590.2	7412.7	8652.9	8323.9	7394.5	7245.9
42.5°	2862.6	2888.4	3074.8	3460.0	4130.1	5323.4	7361.1	9019.8	8810.6	7712.9	7521.8
45°	2615.4	2638.2	2803.4	3162.8	3810.2	4998.9	7206.5	9414.1	9389.8	7940.3	7682.6
47.5°	2333.4	2356.2	2527.5	2874.7	3490.3	4618.3	6944.2	9802.2	10194.9	8455.8	8158.7
50°	1989.2	2009.0	2184.8	2542.7	3158.2	4213.5	6580.3	10107.0	11210.8	9236.7	8863.7
52.5°	1581.4	1602.6	1773.9	2131.8	2764.0	3778.4	6101.2	10305.6	12384.3	10376.8	9917.4
55°	1176.6	1191.7	1340.3	1661.8	2275.8	3282.6	5500.8	10361.7	13715.5	11935.5	11360.9
57.5°	853.6	862.7	958.2	1197.8	1725.4	2662.4	4771.5	10216.1	15299.9	13933.8	13210.6
60°	691.4	694.4	723.2	829.4	1199.3	1962.0	3890.6	9715.8	17019.3	16509.9	15598.6
62.5°	627.7	627.7	635.3	664.1	811.2	1294.8	2824.7	8678.7	18863.0	19765.1	18544.6
65°	583.7	583.7	586.8	600.4	639.8	824.8	1783.0	6989.7	20417.1	23578.4	22034.9
67.5°	544.3	545.8	544.3	548.9	571.6	609.5	1034.0	4827.6	21254.0	27529.6	25863.3
70°	503.4	506.4	498.8	498.8	517.0	518.5	647.4	2647.3	20559.6	30840.9	30402.8
72.5°	454.9	459.4	447.3	444.2	457.9	451.8	486.7	1270.6	17651.6	31829.5	32981.8
75°	412.4	418.5	391.2	383.6	383.6	379.0	395.7	652.0	11456.4	25964.9	27772.2
77.5°	374.5	386.6	342.7	318.4	312.3	298.7	322.9	398.8	5011.0	12190.2	11937.0
80°	309.3	326.0	282.0	253.2	242.6	227.4	254.7	279.0	1490.4	2830.7	2711.0
82.5°	230.5	238.0	200.1	180.4	171.3	160.7	191.0	194.1	485.2	1002.2	1132.6
85°	147.1	150.1	122.8	106.1	101.6	97.0	121.3	106.1	185.0	736.9	1070.4
87.5°	51.6	59.1	47.0	42.5	45.5	37.9	56.1	31.8	51.6	520.1	644.4
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)