

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: P885125

Luminaire Tested: **NAV-SB6B-735-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885125  
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-735-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

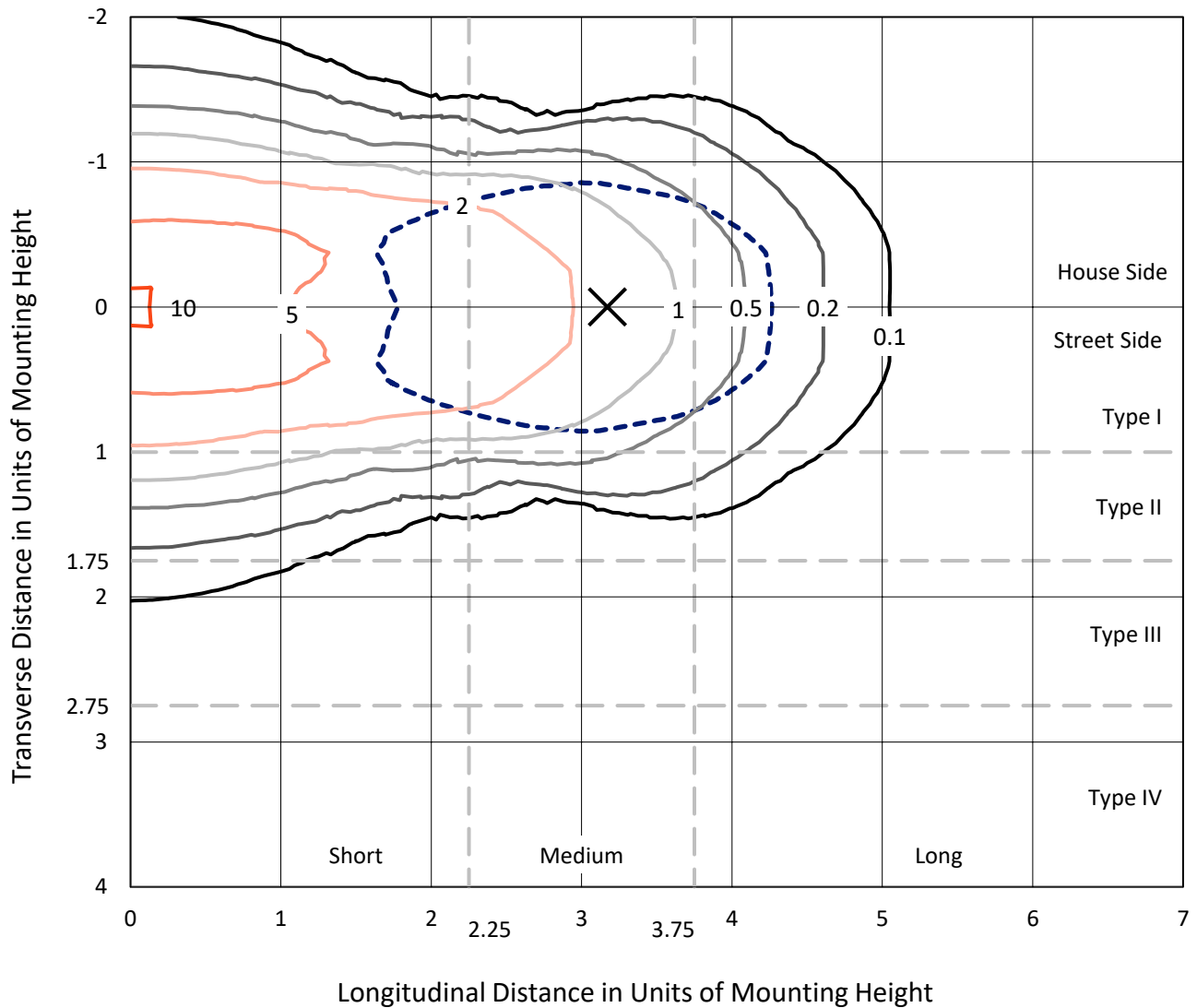
Lumens per Lamp: N/A  
Luminaire Lumens: 33812 lumens  
Efficiency: N/A  
Efficacy: 153.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 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

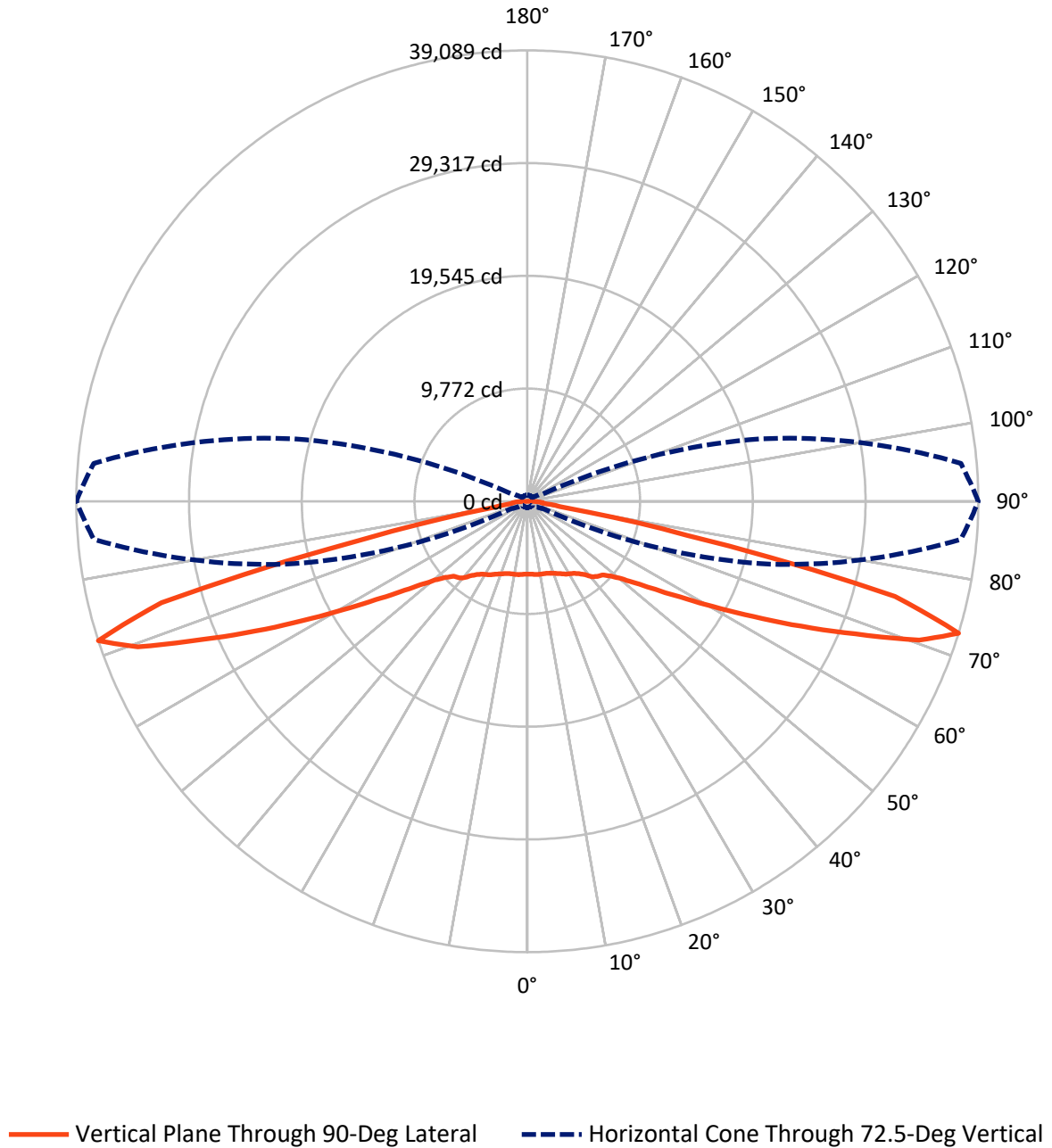
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	16906.0	0.0	16906.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16906.0	0.0	16906.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33812.0	0.0	33812.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	612.6	1.8
10°-20°	1873.1	5.5
20°-30°	3123.3	9.2
30°-40°	4295.5	12.7
40°-50°	5246.0	15.5
50°-60°	6067.5	17.9
60°-70°	7234.5	21.4
70°-80°	5049.2	14.9
80°-90°	310.1	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°	33812.0	100.0
0°-180°	33812.0	100.0

**Coefficient of Utilization**



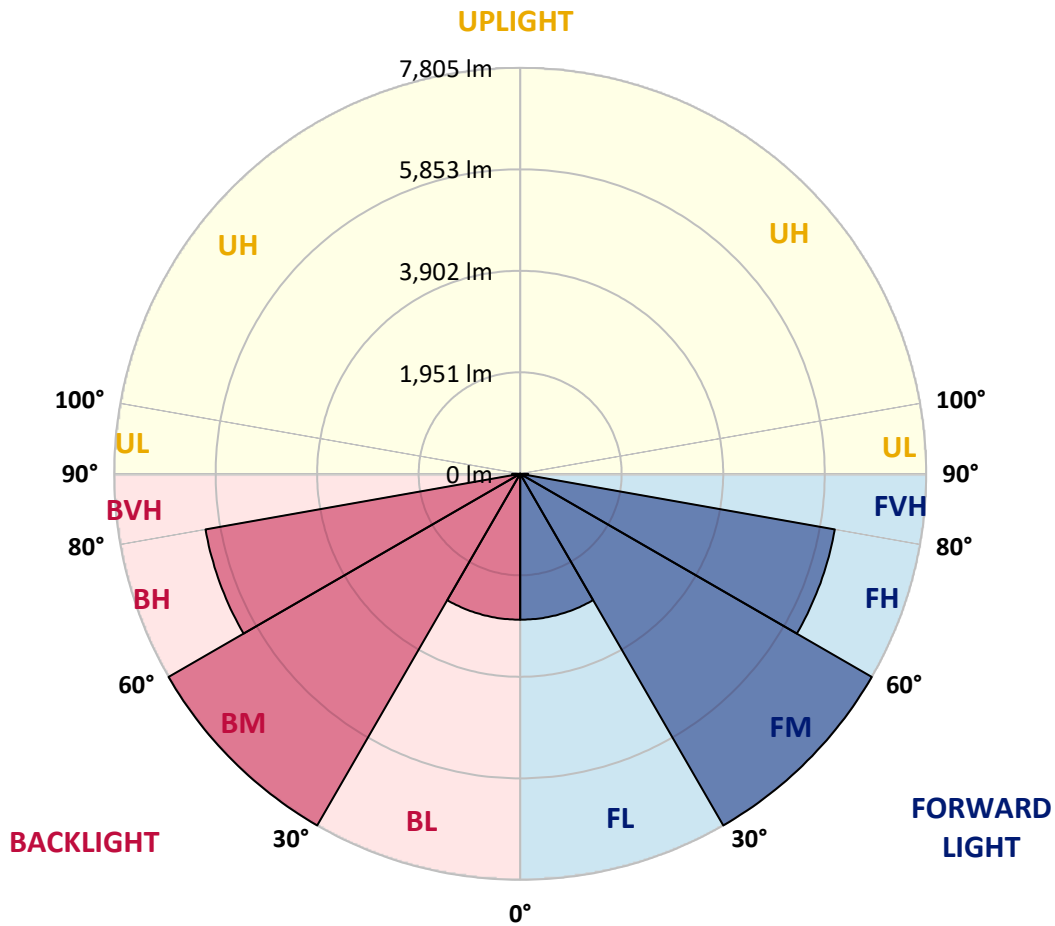
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2804.5	8.3			
FM (30°-60°)	7804.5	23.1			
FH (60°-80°)	6141.9	18.2			G3/7500
FVH (80°-90°)	155.1	0.5			G2/225
BL (0°-30°)	2804.5	8.3	B4/5000		
BM (30°-60°)	7804.5	23.1	B4/8500		
BH (60°-80°)	6141.9	18.2	B5		G5
BVH (80°-90°)	155.1	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°	6318.1	6318.1	6318.1	6318.1	6318.1	6318.1	6318.1	6318.1	6318.1	6318.1	6318.1
2.5°	6323.5	6330.7	6330.7	6325.3	6337.9	6327.1	6327.1	6321.7	6327.1	6321.7	6321.7
5°	6355.9	6364.9	6368.4	6366.6	6382.8	6373.8	6373.8	6366.6	6368.4	6363.1	6363.1
7.5°	6417.0	6429.5	6436.7	6445.7	6469.1	6458.3	6451.1	6429.5	6420.6	6406.2	6406.2
10°	6436.7	6451.1	6474.5	6521.2	6575.1	6576.9	6555.3	6501.4	6460.1	6427.7	6422.4
12.5°	6375.6	6395.4	6443.9	6539.2	6659.6	6708.1	6673.9	6584.1	6503.2	6445.7	6436.7
15°	6298.4	6319.9	6393.6	6537.4	6715.3	6828.5	6824.9	6706.3	6576.9	6487.0	6472.7
17.5°	6178.0	6199.5	6305.6	6506.8	6758.4	6945.3	6995.6	6873.4	6691.9	6571.5	6551.7
20°	5960.5	5980.3	6127.7	6409.8	6772.8	7069.3	7200.4	7092.6	6866.2	6702.7	6672.1
22.5°	5678.4	5709.0	5881.5	6242.7	6738.6	7198.6	7434.0	7360.4	7069.3	6842.8	6801.5
25°	5376.5	5408.9	5610.1	6037.8	6650.6	7292.1	7710.8	7664.1	7299.3	7017.1	6959.6
27.5°	5116.0	5150.1	5369.3	5834.7	6514.0	7328.0	7983.9	8007.3	7577.8	7209.4	7148.3
30°	4911.1	4943.5	5177.1	5671.2	6337.9	7292.1	8222.9	8384.6	7861.7	7376.5	7288.5
32.5°	4686.5	4727.8	4974.0	5471.8	6129.4	7205.8	8431.4	8792.5	8190.6	7556.2	7444.8
35°	4402.6	4440.3	4699.1	5198.6	5856.3	7067.5	8605.7	9245.4	8661.4	7829.4	7705.4
37.5°	4057.5	4093.5	4350.5	4857.2	5585.0	6873.4	8738.6	9755.7	9222.0	8222.9	8057.6
40°	3710.7	3744.9	3985.7	4476.2	5259.7	6625.4	8785.4	10255.3	9865.3	8763.8	8587.7
42.5°	3392.7	3423.2	3644.2	4100.7	4894.9	6309.1	8724.3	10690.1	10442.2	9141.2	8914.7
45°	3099.8	3126.7	3322.6	3748.5	4515.8	5924.6	8541.0	11157.4	11128.6	9410.7	9105.2
47.5°	2765.5	2792.5	2995.5	3407.0	4136.6	5473.6	8230.1	11617.4	12082.8	10021.7	9669.5
50°	2357.6	2381.0	2589.4	3013.5	3743.1	4993.8	7798.8	11978.6	13286.8	10947.1	10505.1
52.5°	1874.2	1899.4	2102.4	2526.5	3275.9	4478.0	7231.0	12214.0	14677.6	12298.4	11753.9
55°	1394.4	1412.4	1588.5	1969.5	2697.2	3890.4	6519.4	12280.5	16255.3	14145.7	13464.7
57.5°	1011.7	1022.5	1135.7	1419.6	2044.9	3155.5	5655.0	12108.0	18133.2	16514.1	15657.0
60°	819.4	823.0	857.2	982.9	1421.4	2325.3	4611.0	11515.0	20170.9	19567.2	18487.2
62.5°	743.9	743.9	752.9	787.1	961.4	1534.6	3347.7	10285.8	22356.0	23425.2	21978.7
65°	691.8	691.8	695.4	711.6	758.3	977.5	2113.2	8284.0	24197.9	27944.6	26115.3
67.5°	645.1	646.9	645.1	650.5	677.5	722.4	1225.5	5721.5	25189.9	32627.5	30652.6
70°	596.6	600.2	591.2	591.2	612.8	614.6	767.3	3137.5	24366.8	36552.1	36032.7
72.5°	539.1	544.5	530.1	526.5	542.7	535.5	576.8	1505.9	20920.3	37723.7	39089.4
75°	488.8	496.0	463.6	454.6	454.6	449.2	469.0	772.7	13577.9	30773.0	32915.0
77.5°	443.9	458.2	406.1	377.4	370.2	354.0	382.8	472.6	5939.0	14447.6	14147.5
80°	366.6	386.3	334.2	300.1	287.5	269.5	301.9	330.6	1766.4	3354.9	3213.0
82.5°	273.1	282.1	237.2	213.8	203.1	190.5	226.4	230.0	575.0	1187.8	1342.3
85°	174.3	177.9	145.6	125.8	120.4	115.0	143.8	125.8	219.2	873.3	1268.7
87.5°	61.1	70.1	55.7	50.3	53.9	44.9	66.5	37.7	61.1	616.4	763.7
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)