

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: P883985

Luminaire Tested: **NAV-SB4C-830-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883985  
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-SB4C-830-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

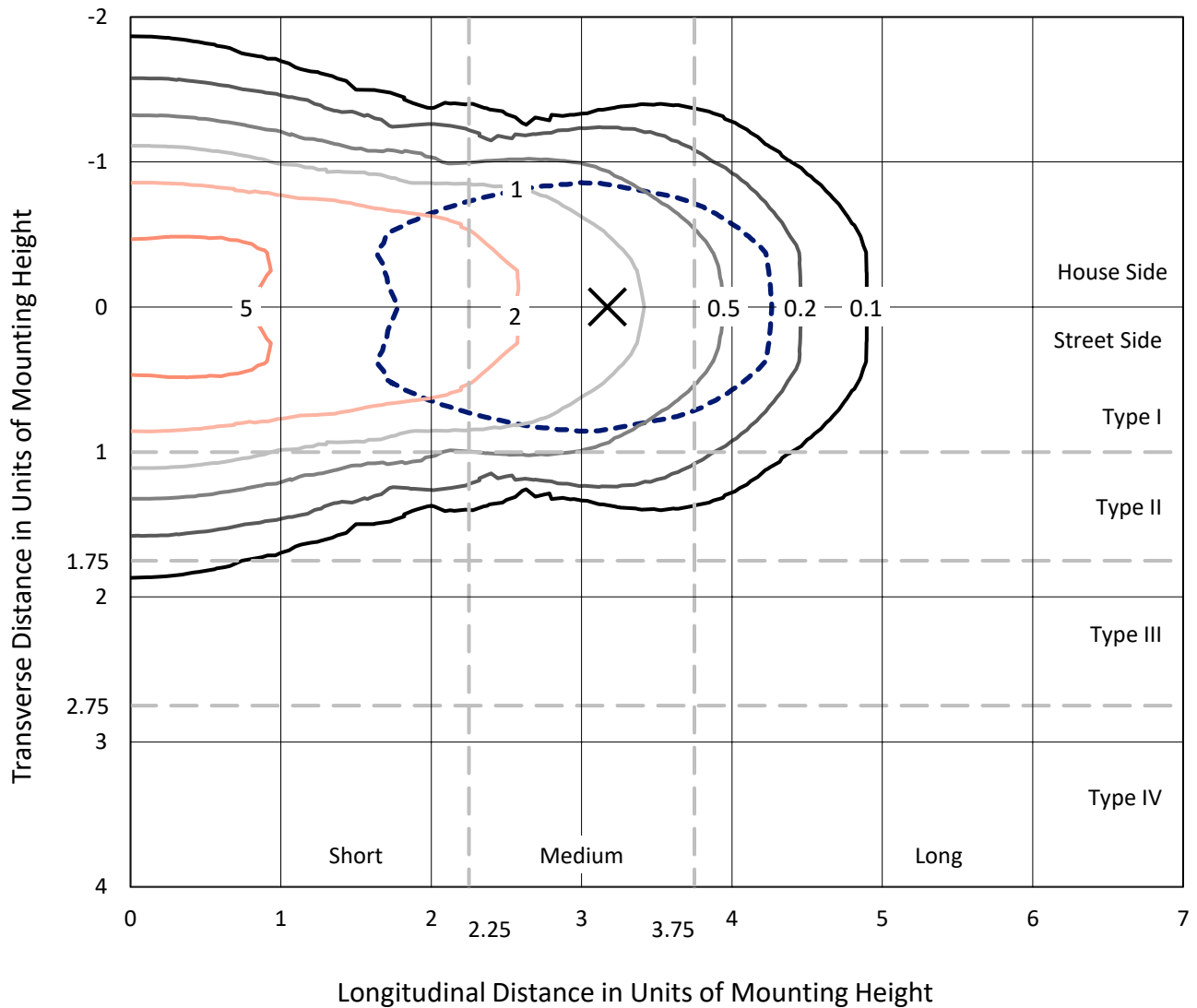
Lumens per Lamp: N/A  
Luminaire Lumens: 26272 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): 120.0  
Input Current (Ain): 1.714  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.472  
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

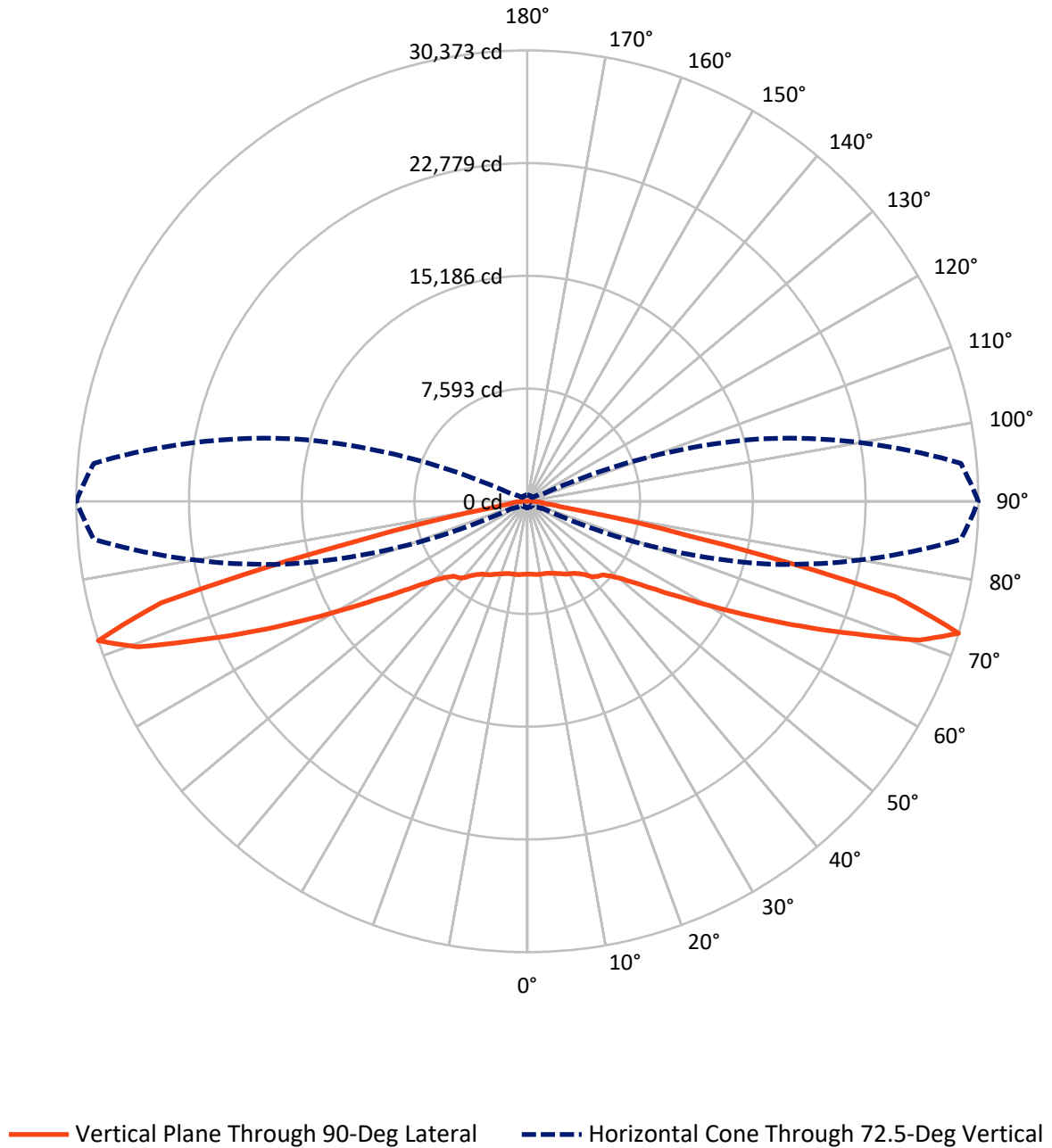
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	13136.0	0.0	13136.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13136.0	0.0	13136.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26272.0	0.0	26272.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	476.0	1.8
10°-20°	1455.4	5.5
20°-30°	2426.8	9.2
30°-40°	3337.6	12.7
40°-50°	4076.1	15.5
50°-60°	4714.5	17.9
60°-70°	5621.3	21.4
70°-80°	3923.3	14.9
80°-90°	241.0	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°	26272.0	100.0
0°-180°	26272.0	100.0



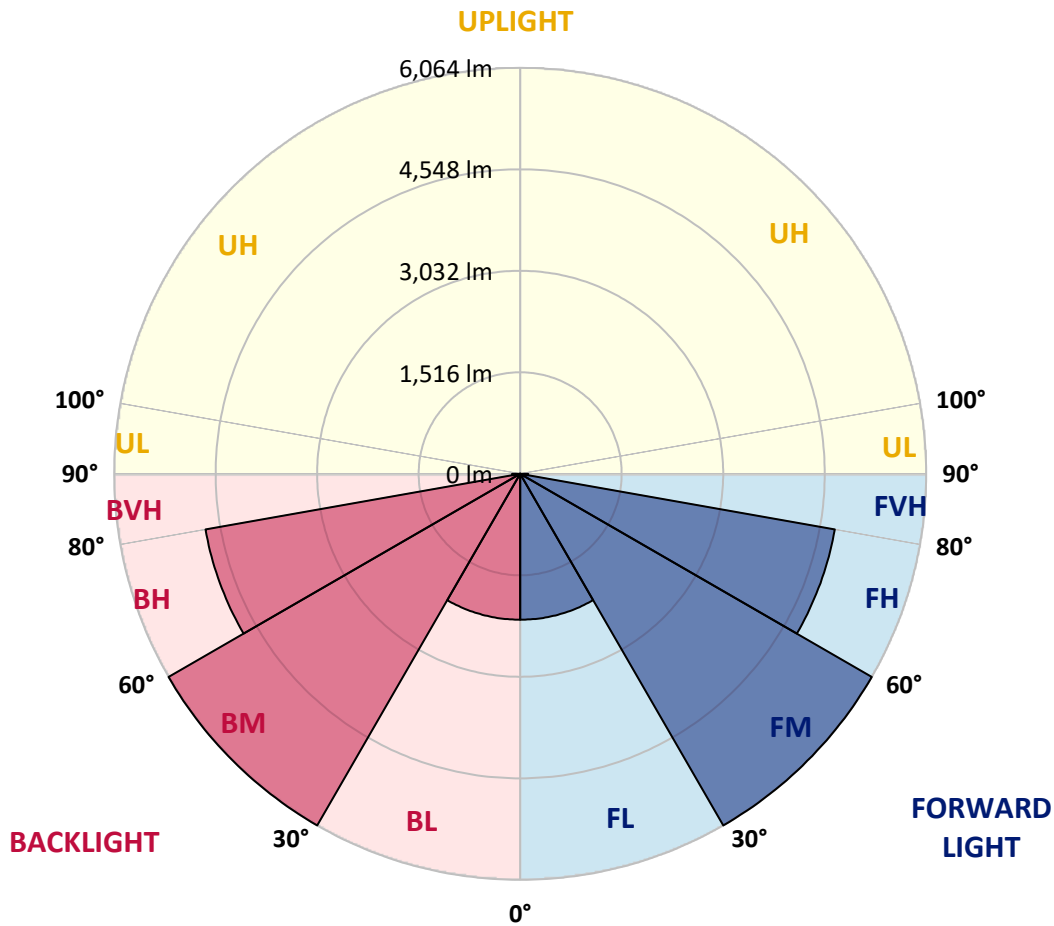
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2179.1	8.3			
FM (30°-60°)	6064.1	23.1			
FH (60°-80°)	4772.3	18.2			G2/5000
FVH (80°-90°)	120.5	0.5			G2/225
BL (0°-30°)	2179.1	8.3	B3/2500		
BM (30°-60°)	6064.1	23.1	B4/8500		
BH (60°-80°)	4772.3	18.2	B4/5000		G4/5000
BVH (80°-90°)	120.5	0.5			G2/225
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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4909.2	4909.2	4909.2	4909.2	4909.2	4909.2	4909.2	4909.2	4909.2	4909.2	4909.2
2.5°	4913.4	4919.0	4919.0	4914.8	4924.6	4916.2	4916.2	4912.0	4916.2	4912.0	4912.0
5°	4938.5	4945.5	4948.3	4946.9	4959.5	4952.5	4952.5	4946.9	4948.3	4944.1	4944.1
7.5°	4986.0	4995.8	5001.4	5008.3	5026.5	5018.1	5012.5	4995.8	4988.8	4977.6	4977.6
10°	5001.4	5012.5	5030.7	5067.0	5108.9	5110.3	5093.5	5051.6	5019.5	4994.4	4990.2
12.5°	4953.9	4969.2	5006.9	5080.9	5174.5	5212.2	5185.7	5115.8	5053.0	5008.3	5001.4
15°	4893.8	4910.6	4967.8	5079.5	5217.8	5305.7	5302.9	5210.8	5110.3	5040.4	5029.3
17.5°	4800.3	4817.0	4899.4	5055.8	5251.3	5396.5	5435.6	5340.6	5199.6	5106.1	5090.7
20°	4631.3	4646.7	4761.2	4980.4	5262.5	5492.8	5594.8	5511.0	5335.1	5208.0	5184.3
22.5°	4412.1	4435.9	4569.9	4850.6	5235.9	5593.4	5776.3	5719.0	5492.8	5316.9	5284.8
25°	4177.6	4202.7	4359.1	4691.4	5167.5	5666.0	5991.3	5955.0	5671.6	5452.3	5407.7
27.5°	3975.1	4001.6	4172.0	4533.6	5061.4	5693.9	6203.5	6221.7	5888.0	5601.7	5554.3
30°	3815.9	3841.1	4022.6	4406.6	4924.6	5666.0	6389.2	6514.9	6108.6	5731.6	5663.2
32.5°	3641.4	3673.5	3864.8	4251.6	4762.6	5598.9	6551.2	6831.8	6364.1	5871.2	5784.6
35°	3420.8	3450.1	3651.2	4039.3	4550.4	5491.4	6686.6	7183.7	6729.9	6083.4	5987.1
37.5°	3152.7	3180.6	3380.3	3774.1	4339.5	5340.6	6789.9	7580.2	7165.5	6389.2	6260.8
40°	2883.2	2909.8	3096.9	3478.0	4086.8	5148.0	6826.2	7968.4	7665.4	6809.5	6672.7
42.5°	2636.1	2659.8	2831.6	3186.2	3803.4	4902.2	6778.8	8306.3	8113.6	7102.7	6926.8
45°	2408.5	2429.5	2581.7	2912.6	3508.8	4603.4	6636.4	8669.3	8647.0	7312.1	7074.8
47.5°	2148.8	2169.8	2327.5	2647.3	3214.2	4253.0	6394.8	9026.7	9388.4	7786.9	7513.2
50°	1831.9	1850.0	2012.0	2341.5	2908.4	3880.2	6059.7	9307.4	10323.8	8505.9	8162.5
52.5°	1456.3	1475.8	1633.6	1963.1	2545.4	3479.4	5618.5	9490.3	11404.5	9555.9	9132.8
55°	1083.5	1097.4	1234.3	1530.3	2095.8	3022.9	5065.6	9541.9	12630.4	10991.2	10462.1
57.5°	786.1	794.5	882.4	1103.0	1588.9	2451.8	4394.0	9407.9	14089.5	12831.5	12165.5
60°	636.7	639.5	666.0	763.7	1104.4	1806.7	3582.8	8947.1	15672.9	15203.7	14364.6
62.5°	578.0	578.0	585.0	611.6	747.0	1192.4	2601.2	7992.1	17370.7	18201.5	17077.5
65°	537.6	537.6	540.3	552.9	589.2	759.6	1642.0	6436.7	18801.8	21713.0	20291.6
67.5°	501.3	502.6	501.3	505.4	526.4	561.3	952.2	4445.6	19572.6	25351.6	23817.2
70°	463.6	466.3	459.4	459.4	476.1	477.5	596.2	2437.8	18933.1	28401.0	27997.5
72.5°	418.9	423.1	411.9	409.1	421.7	416.1	448.2	1170.1	16255.1	29311.4	30372.5
75°	379.8	385.4	360.2	353.3	353.3	349.1	364.4	600.4	10550.0	23910.7	25575.0
77.5°	344.9	356.0	315.6	293.2	287.6	275.1	297.4	367.2	4614.6	11225.8	10992.6
80°	284.8	300.2	259.7	233.2	223.4	209.4	234.6	256.9	1372.5	2606.8	2496.5
82.5°	212.2	219.2	184.3	166.2	157.8	148.0	175.9	178.7	446.8	922.9	1043.0
85°	135.4	138.2	113.1	97.7	93.5	89.4	111.7	97.7	170.3	678.6	985.7
87.5°	47.5	54.5	43.3	39.1	41.9	34.9	51.7	29.3	47.5	478.9	593.4
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)