

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: P884665

Luminaire Tested: **NAV-SB5C-830-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884665  
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-SB5C-830-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

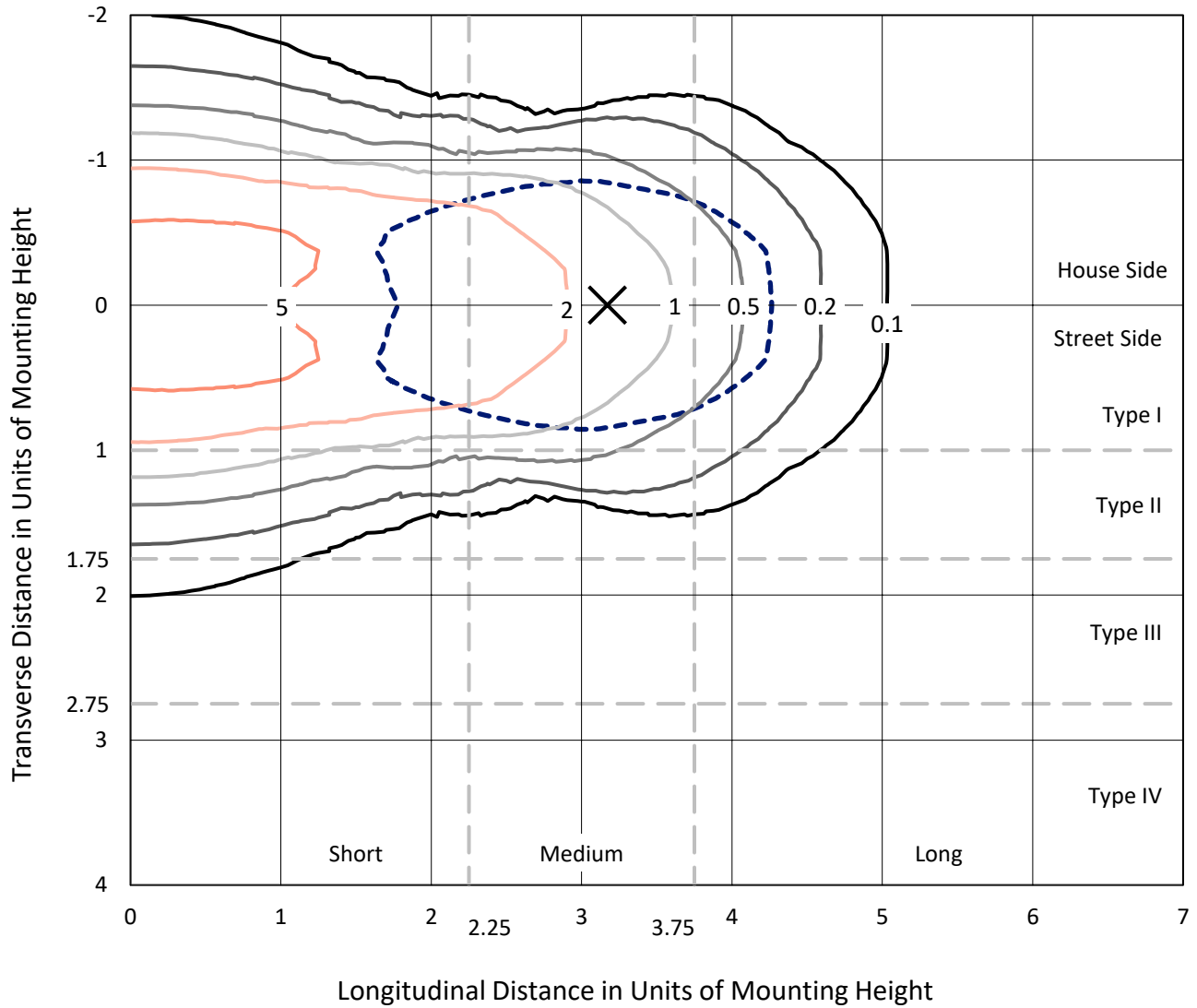
Lumens per Lamp: N/A  
Luminaire Lumens: 32895 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): 120.0  
Input Current (Ain): 2.116  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 7.885  
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

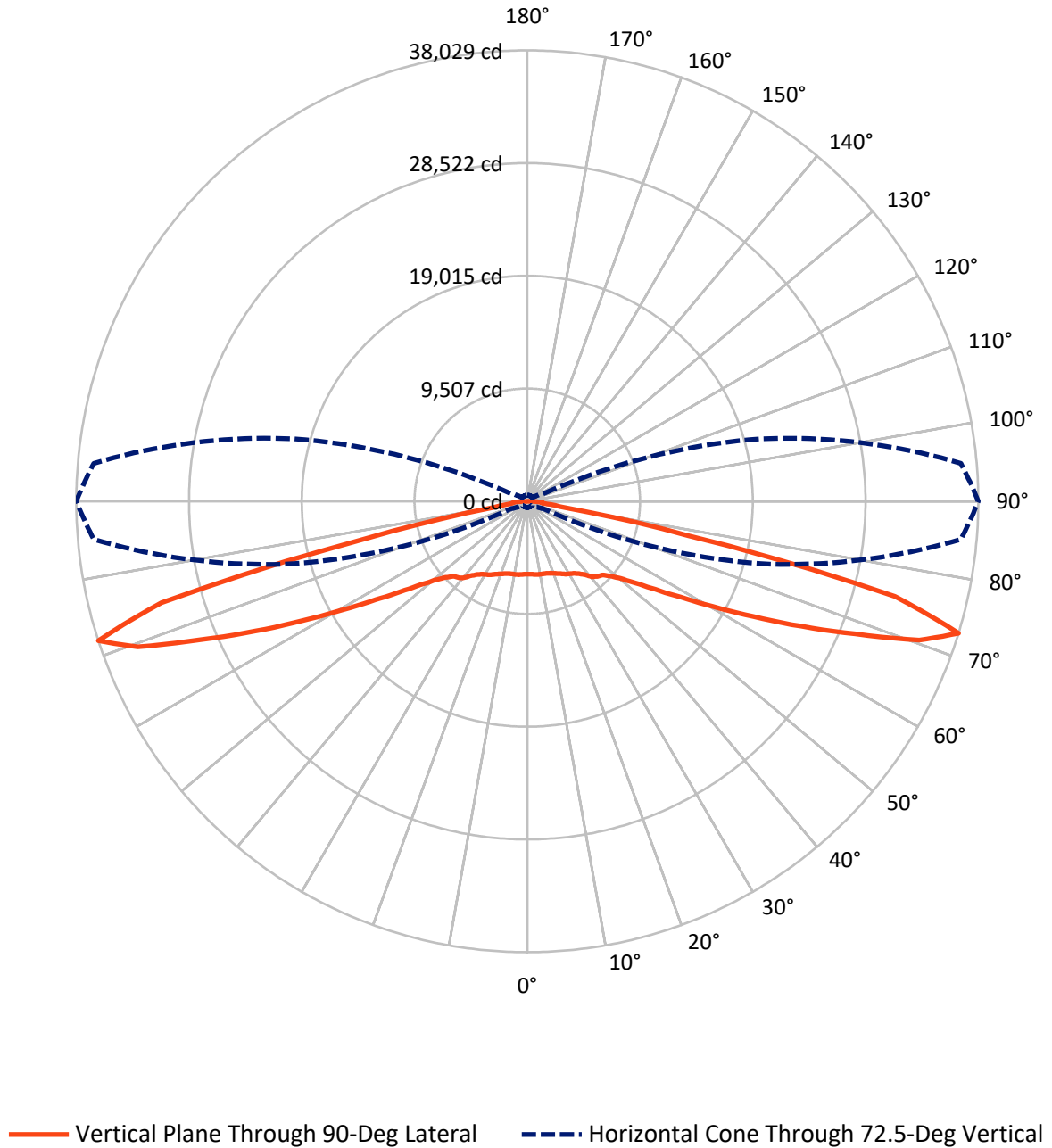
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	16447.5	0.0	16447.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16447.5	0.0	16447.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32895.0	0.0	32895.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	596.0	1.8
10°-20°	1822.3	5.5
20°-30°	3038.6	9.2
30°-40°	4179.0	12.7
40°-50°	5103.7	15.5
50°-60°	5903.0	17.9
60°-70°	7038.3	21.4
70°-80°	4912.3	14.9
80°-90°	301.7	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°	32895.0	100.0
0°-180°	32895.0	100.0



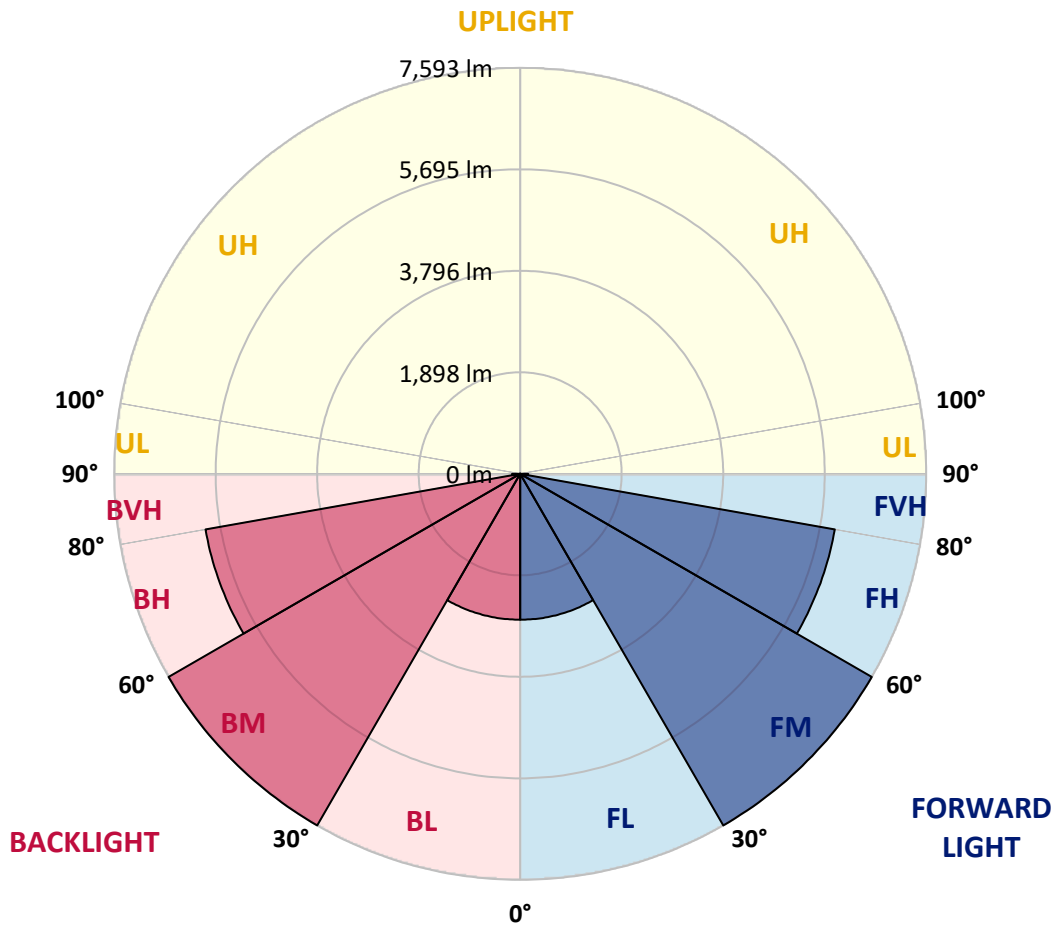
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2728.5	8.3			
FM (30°-60°)	7592.9	23.1			
FH (60°-80°)	5975.3	18.2			G3/7500
FVH (80°-90°)	150.9	0.5			G2/225
BL (0°-30°)	2728.5	8.3	B4/5000		
BM (30°-60°)	7592.9	23.1	B4/8500		
BH (60°-80°)	5975.3	18.2	B5		G5
BVH (80°-90°)	150.9	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°	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8	6146.8
2.5°	6152.0	6159.0	6159.0	6153.8	6166.0	6155.5	6155.5	6150.3	6155.5	6150.3	6150.3
5°	6183.5	6192.2	6195.7	6194.0	6209.7	6201.0	6201.0	6194.0	6195.7	6190.5	6190.5
7.5°	6242.9	6255.2	6262.2	6270.9	6293.6	6283.1	6276.1	6255.2	6246.4	6232.4	6232.4
10°	6262.2	6276.1	6298.9	6344.3	6396.8	6398.5	6377.5	6325.1	6284.9	6253.4	6248.2
12.5°	6202.7	6222.0	6269.2	6361.8	6478.9	6526.1	6492.9	6405.5	6326.8	6270.9	6262.2
15°	6127.5	6148.5	6220.2	6360.1	6533.1	6643.3	6639.8	6524.4	6398.5	6311.1	6297.1
17.5°	6010.4	6031.4	6134.5	6330.3	6575.1	6756.9	6805.9	6687.0	6510.4	6393.3	6374.0
20°	5798.9	5818.1	5961.5	6235.9	6589.1	6877.5	7005.2	6900.3	6680.0	6520.9	6491.2
22.5°	5524.4	5554.1	5722.0	6073.4	6555.9	7003.4	7232.4	7160.8	6877.5	6657.3	6617.1
25°	5230.7	5262.2	5458.0	5874.1	6470.2	7094.3	7501.7	7456.2	7101.3	6826.8	6770.9
27.5°	4977.2	5010.4	5223.7	5676.5	6337.3	7129.3	7767.4	7790.1	7372.3	7013.9	6954.5
30°	4777.9	4809.4	5036.7	5517.4	6166.0	7094.3	7999.9	8157.2	7648.5	7176.5	7090.8
32.5°	4559.4	4599.6	4839.1	5323.4	5963.2	7010.4	8202.7	8554.1	7968.4	7351.3	7242.9
35°	4283.2	4319.9	4571.6	5057.6	5697.5	6875.8	8372.3	8994.6	8426.5	7617.0	7496.4
37.5°	3947.5	3982.5	4232.5	4725.5	5433.5	6687.0	8501.6	9491.1	8971.9	7999.9	7839.1
40°	3610.1	3643.3	3877.6	4354.8	5117.1	6445.7	8547.1	9977.2	9597.8	8526.1	8354.8
42.5°	3300.7	3330.4	3545.4	3989.5	4762.2	6138.0	8487.7	10400.2	10159.0	8893.2	8673.0
45°	3015.7	3041.9	3232.5	3646.8	4393.3	5763.9	8309.3	10854.8	10826.8	9155.5	8858.3
47.5°	2690.5	2716.7	2914.3	3314.6	4024.4	5325.1	8006.9	11302.3	11755.1	9749.9	9407.2
50°	2293.7	2316.4	2519.2	2931.8	3641.6	4858.3	7587.3	11653.7	12926.4	10650.2	10220.2
52.5°	1823.4	1847.9	2045.4	2458.0	3187.0	4356.6	7034.9	11882.7	14279.5	11964.9	11435.2
55°	1356.6	1374.1	1545.4	1916.1	2624.1	3784.9	6342.6	11947.4	15814.5	13762.1	13099.5
57.5°	984.3	994.7	1104.9	1381.1	1989.5	3069.9	5501.7	11779.6	17641.4	16066.2	15232.3
60°	797.2	800.7	833.9	956.3	1382.9	2262.2	4486.0	11202.7	19623.9	19036.5	17985.8
62.5°	723.8	723.8	732.5	765.7	935.3	1493.0	3257.0	10006.9	21749.7	22789.9	21382.6
65°	673.1	673.1	676.6	692.3	737.8	951.0	2055.9	8059.3	23541.7	27186.7	25407.0
67.5°	627.6	629.4	627.6	632.9	659.1	702.8	1192.3	5566.4	24506.7	31742.6	29821.3
70°	580.4	583.9	575.2	575.2	596.1	597.9	746.5	3052.4	23706.0	35560.8	35055.5
72.5°	524.5	529.7	515.7	512.2	528.0	521.0	561.2	1465.0	20352.9	36700.6	38029.3
75°	475.5	482.5	451.0	442.3	442.3	437.1	456.3	751.7	13209.6	29938.4	32022.3
77.5°	431.8	445.8	395.1	367.1	360.1	344.4	372.4	459.8	5777.9	14055.8	13763.8
80°	356.6	375.9	325.2	292.0	279.7	262.2	293.7	321.7	1718.5	3263.9	3125.8
82.5°	265.7	274.5	230.8	208.0	197.6	185.3	220.3	223.8	559.4	1155.6	1305.9
85°	169.6	173.1	141.6	122.4	117.1	111.9	139.9	122.4	213.3	849.6	1234.3
87.5°	59.4	68.2	54.2	49.0	52.4	43.7	64.7	36.7	59.4	599.6	743.0
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)