

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: P885305

Luminaire Tested: **NAV-SB6C-740-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885305  
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-SB6C-740-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48482 lumens  
Efficiency: N/A  
Efficacy: 161.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

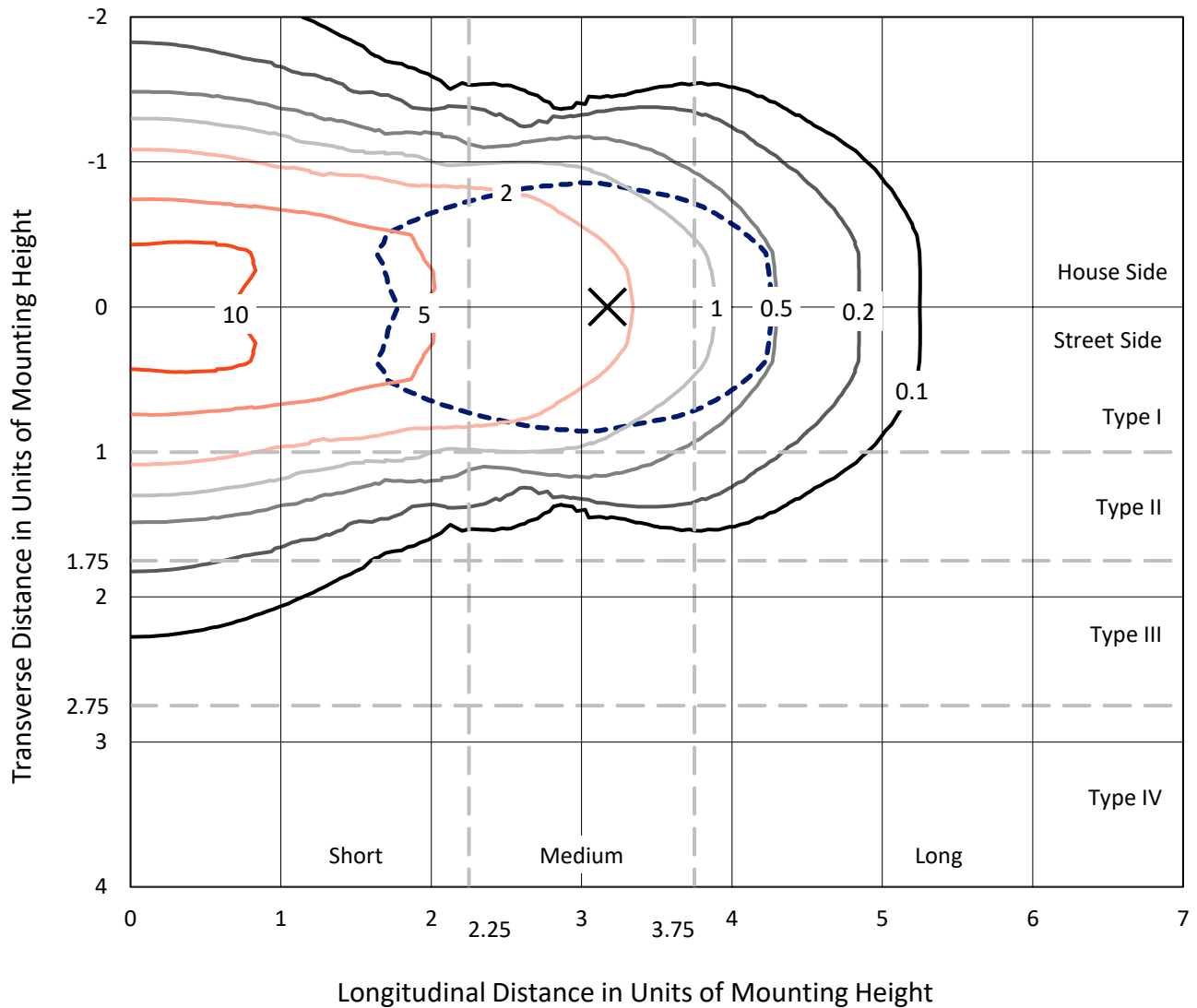
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

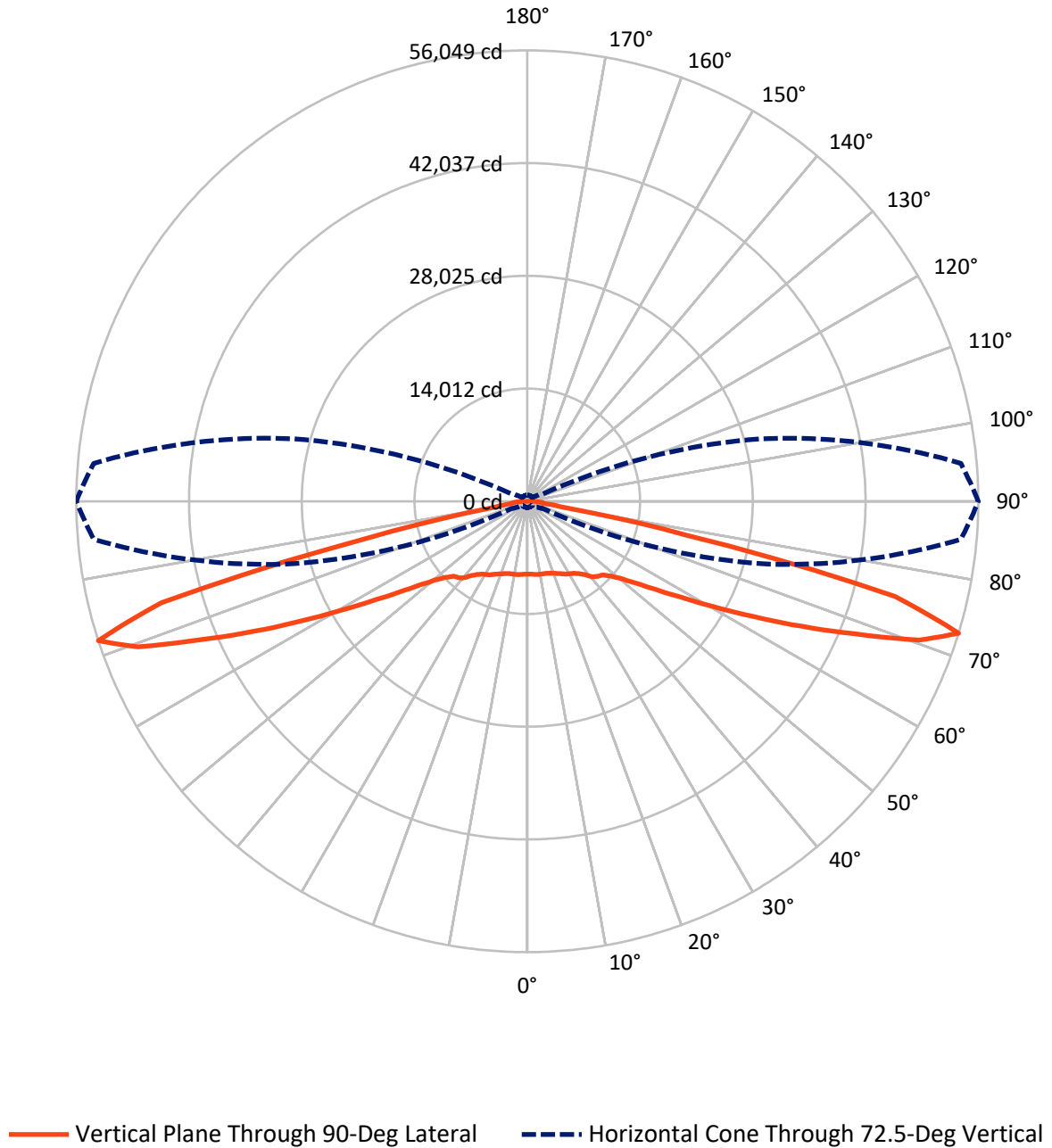
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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	24241.0	0.0	24241.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24241.0	0.0	24241.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	48482.0	0.0	48482.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	878.4	1.8
10°-20°	2685.8	5.5
20°-30°	4478.4	9.2
30°-40°	6159.2	12.7
40°-50°	7522.1	15.5
50°-60°	8700.1	17.9
60°-70°	10373.4	21.4
70°-80°	7239.9	14.9
80°-90°	444.7	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°	48482.0	100.0
0°-180°	48482.0	100.0

**Coefficient of Utilization**



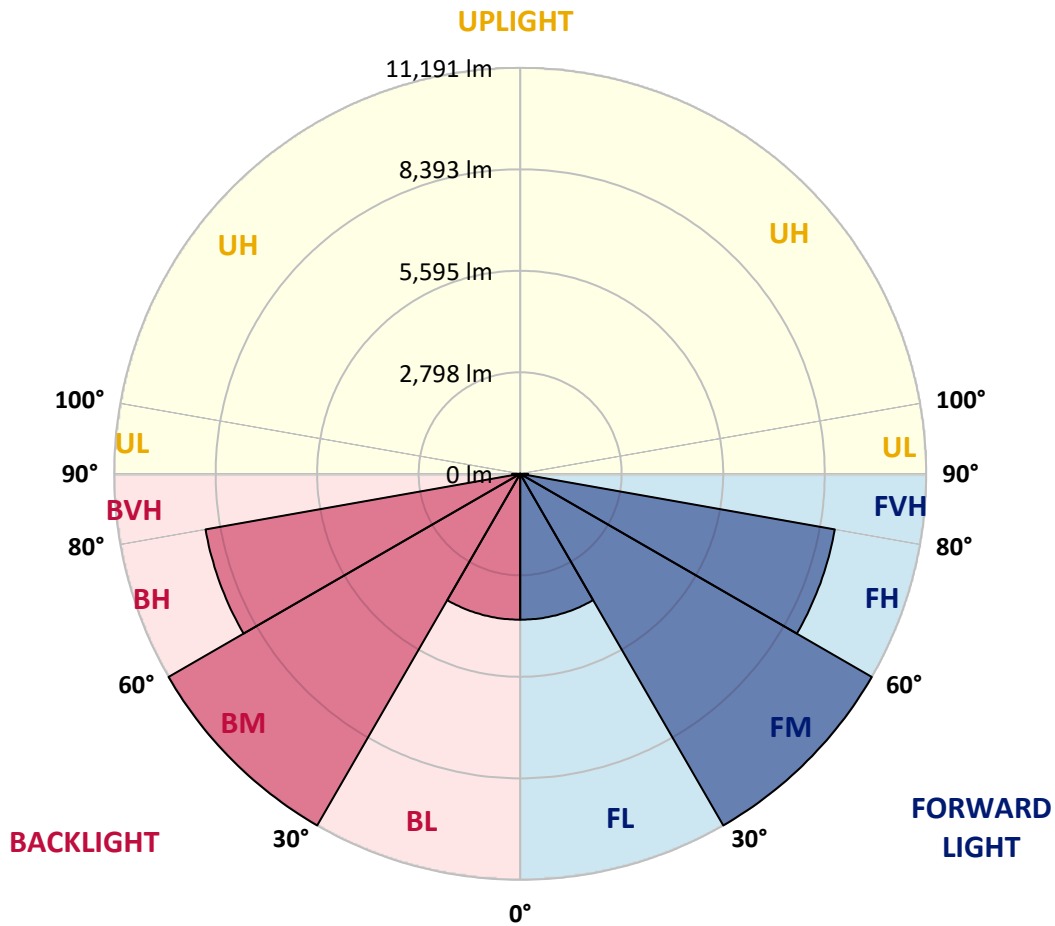
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4021.3	8.3			
FM (30°-60°)	11190.7	23.1			
FH (60°-80°)	8806.7	18.2			G4/12000
FVH (80°-90°)	222.3	0.5			G2/225
BL (0°-30°)	4021.3	8.3	B4/5000		
BM (30°-60°)	11190.7	23.1	B5		
BH (60°-80°)	8806.7	18.2	B5		G5
BVH (80°-90°)	222.3	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°	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4	9059.4
2.5°	9067.1	9077.4	9077.4	9069.7	9087.7	9072.3	9072.3	9064.5	9072.3	9064.5	9064.5
5°	9113.5	9126.4	9131.5	9128.9	9152.1	9139.2	9139.2	9128.9	9131.5	9123.8	9123.8
7.5°	9201.1	9219.1	9229.4	9242.3	9275.8	9260.3	9250.0	9219.1	9206.2	9185.6	9185.6
10°	9229.4	9250.0	9283.5	9350.5	9427.8	9430.4	9399.5	9322.2	9262.9	9216.5	9208.8
12.5°	9141.8	9170.2	9239.7	9376.3	9548.9	9618.5	9569.5	9440.7	9324.8	9242.3	9229.4
15°	9031.0	9062.0	9167.6	9373.7	9628.8	9791.1	9786.0	9615.9	9430.4	9301.6	9281.0
17.5°	8858.4	8889.3	9041.3	9329.9	9690.6	9958.6	10030.8	9855.5	9595.3	9422.7	9394.3
20°	8546.6	8575.0	8786.3	9190.8	9711.3	10136.4	10324.5	10169.9	9845.2	9610.8	9567.0
22.5°	8142.1	8185.9	8433.3	8951.2	9662.3	10321.9	10659.5	10553.8	10136.4	9811.7	9752.5
25°	7709.2	7755.6	8044.2	8657.4	9536.0	10455.9	11056.2	10989.3	10466.2	10061.7	9979.2
27.5°	7335.6	7384.6	7698.9	8366.3	9340.2	10507.4	11447.9	11481.4	10865.6	10337.4	10249.8
30°	7041.9	7088.3	7423.2	8131.8	9087.7	10455.9	11790.6	12022.5	11272.7	10577.0	10450.7
32.5°	6719.8	6779.1	7132.1	7845.8	8788.8	10332.2	12089.5	12607.4	11744.2	10834.7	10674.9
35°	6312.7	6366.8	6737.8	7454.1	8397.2	10133.8	12339.4	13256.7	12419.3	11226.3	11048.5
37.5°	5818.0	5869.5	6238.0	6964.6	8008.1	9855.5	12530.1	13988.4	13223.2	11790.6	11553.5
40°	5320.7	5369.7	5714.9	6418.3	7541.7	9500.0	12597.1	14704.7	14145.6	12566.1	12313.6
42.5°	4864.6	4908.4	5225.4	5879.8	7018.7	9046.5	12509.5	15328.3	14972.7	13107.2	12782.6
45°	4444.7	4483.3	4764.2	5374.8	6475.0	8495.1	12246.6	15998.2	15957.0	13493.7	13055.7
47.5°	3965.4	4004.1	4295.2	4885.3	5931.4	7848.4	11800.9	16657.8	17325.1	14369.8	13864.8
50°	3380.5	3414.0	3712.9	4321.0	5367.1	7160.4	11182.5	17175.7	19051.5	15696.7	15062.9
52.5°	2687.4	2723.5	3014.6	3622.7	4697.2	6420.9	10368.3	17513.2	21045.8	17634.3	16853.6
55°	1999.5	2025.2	2277.7	2824.0	3867.5	5578.4	9348.0	17608.6	23308.0	20283.1	19306.6
57.5°	1450.6	1466.1	1628.4	2035.5	2932.2	4524.5	8108.6	17361.2	26000.6	23679.1	22450.0
60°	1174.9	1180.1	1229.0	1409.4	2038.1	3334.1	6611.6	16510.9	28922.5	28056.7	26508.2
62.5°	1066.7	1066.7	1079.6	1128.6	1378.5	2200.4	4800.2	14748.5	32055.7	33588.7	31514.6
65°	992.0	992.0	997.1	1020.3	1087.3	1401.7	3030.1	11878.2	34696.7	40068.9	37445.9
67.5°	925.0	927.6	925.0	932.7	971.4	1035.8	1757.3	8203.9	36119.0	46783.6	43951.9
70°	855.4	860.6	847.7	847.7	878.6	881.2	1100.2	4498.8	34938.9	52410.9	51666.3
72.5°	773.0	780.7	760.1	754.9	778.1	767.8	827.1	2159.2	29996.9	54090.8	56049.1
75°	700.8	711.1	664.8	651.9	651.9	644.2	672.5	1107.9	19468.9	44124.5	47195.8
77.5°	636.4	657.0	582.3	541.1	530.8	507.6	548.8	677.6	8515.7	20716.0	20285.7
80°	525.6	554.0	479.3	430.3	412.3	386.5	432.9	474.1	2532.8	4810.5	4607.0
82.5°	391.6	404.5	340.1	306.6	291.2	273.1	324.7	329.8	824.5	1703.1	1924.7
85°	249.9	255.1	208.7	180.4	172.6	164.9	206.1	180.4	314.3	1252.2	1819.1
87.5°	87.6	100.5	79.9	72.1	77.3	64.4	95.3	54.1	87.6	883.8	1095.1
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)