

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: P883265

Luminaire Tested: **NAV-SB3C-740-U-T1**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883265  
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-SB3C-740-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

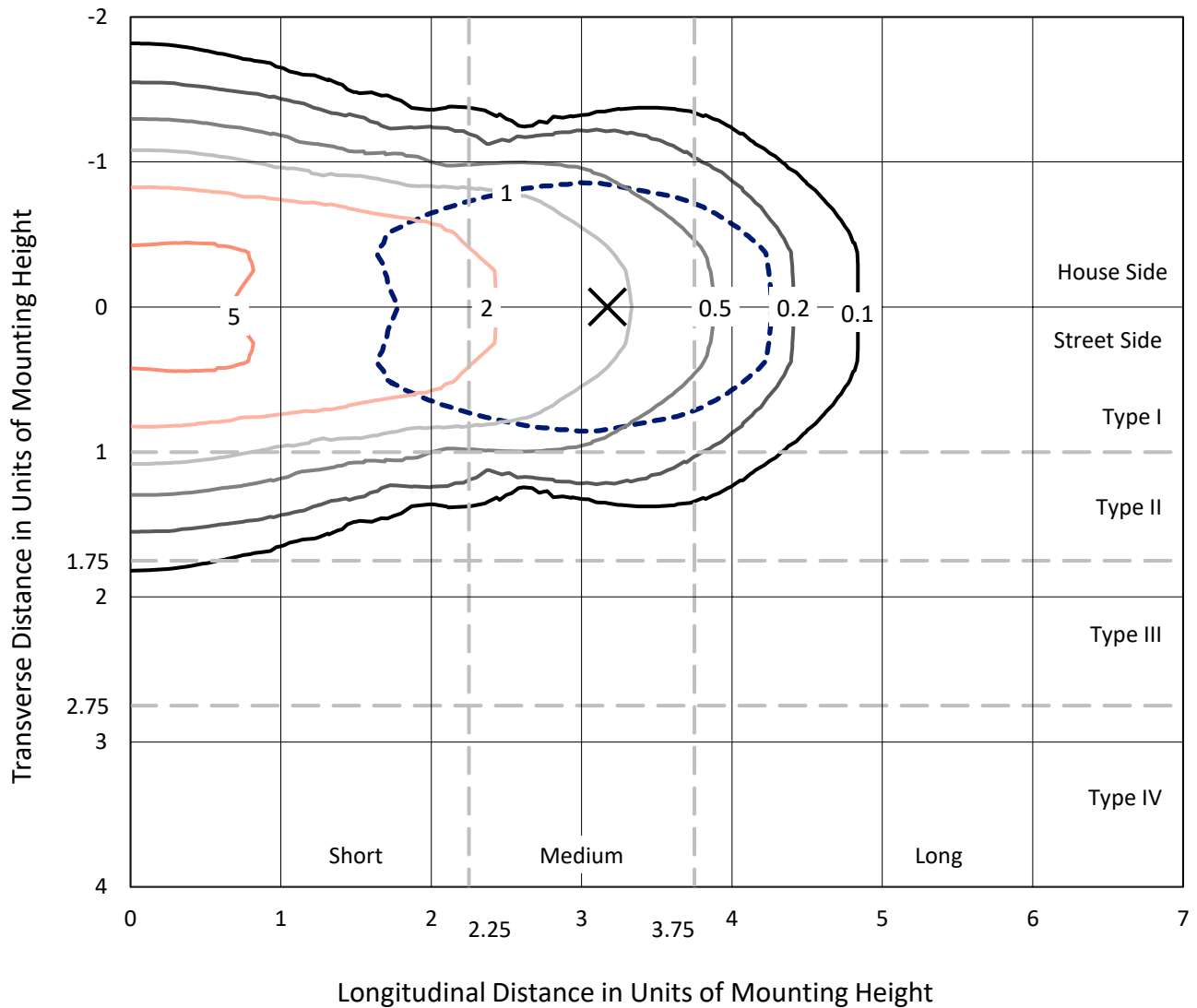
Lumens per Lamp: N/A  
Luminaire Lumens: 23958 lumens  
Efficiency: N/A  
Efficacy: 160.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.259  
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

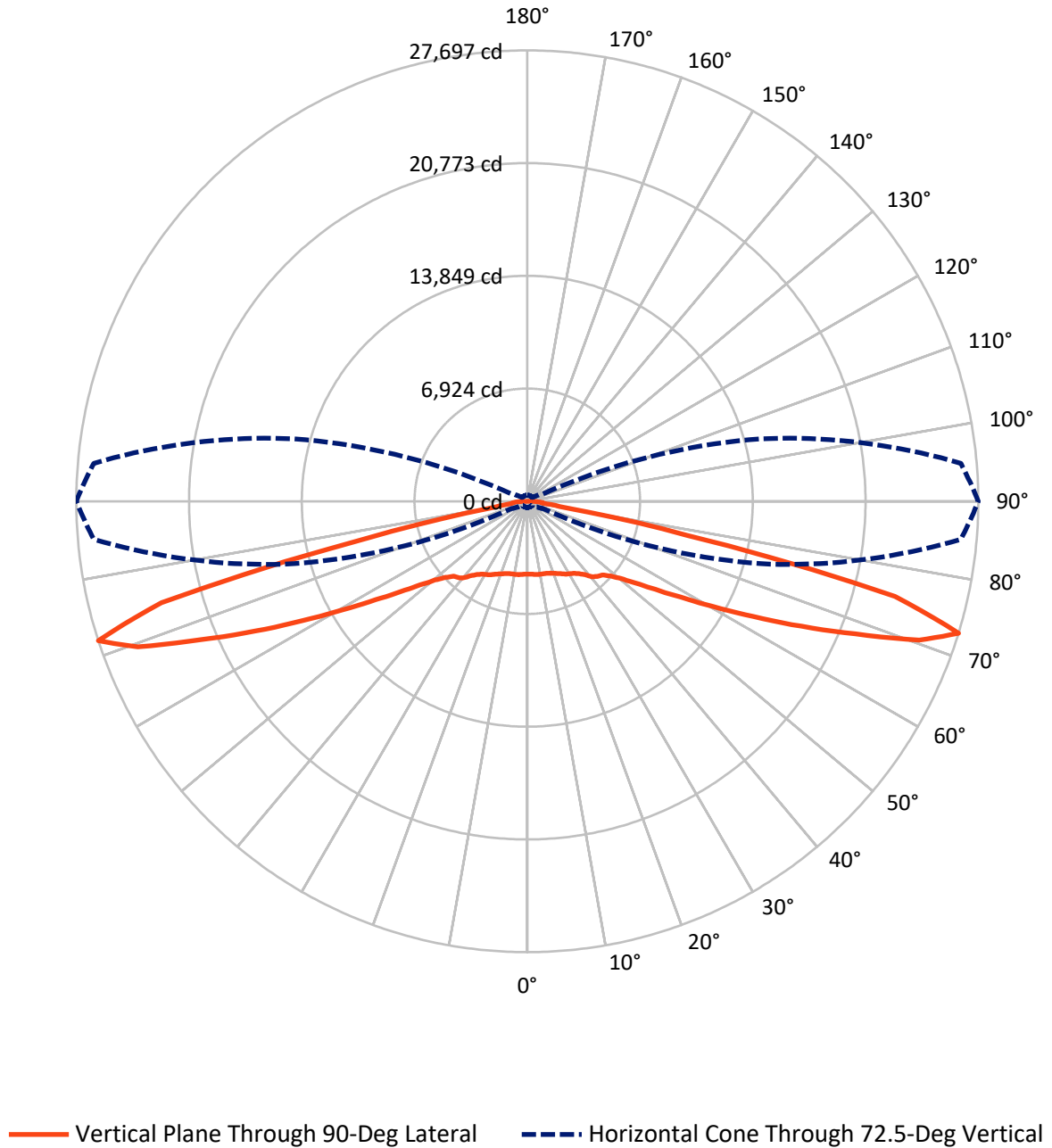
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	11979.0	0.0	11979.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11979.0	0.0	11979.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23958.0	0.0	23958.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.1	1.8
10°-20°	1327.2	5.5
20°-30°	2213.1	9.2
30°-40°	3043.6	12.7
40°-50°	3717.1	15.5
50°-60°	4299.2	17.9
60°-70°	5126.2	21.4
70°-80°	3577.7	14.9
80°-90°	219.7	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°	23958.0	100.0
0°-180°	23958.0	100.0



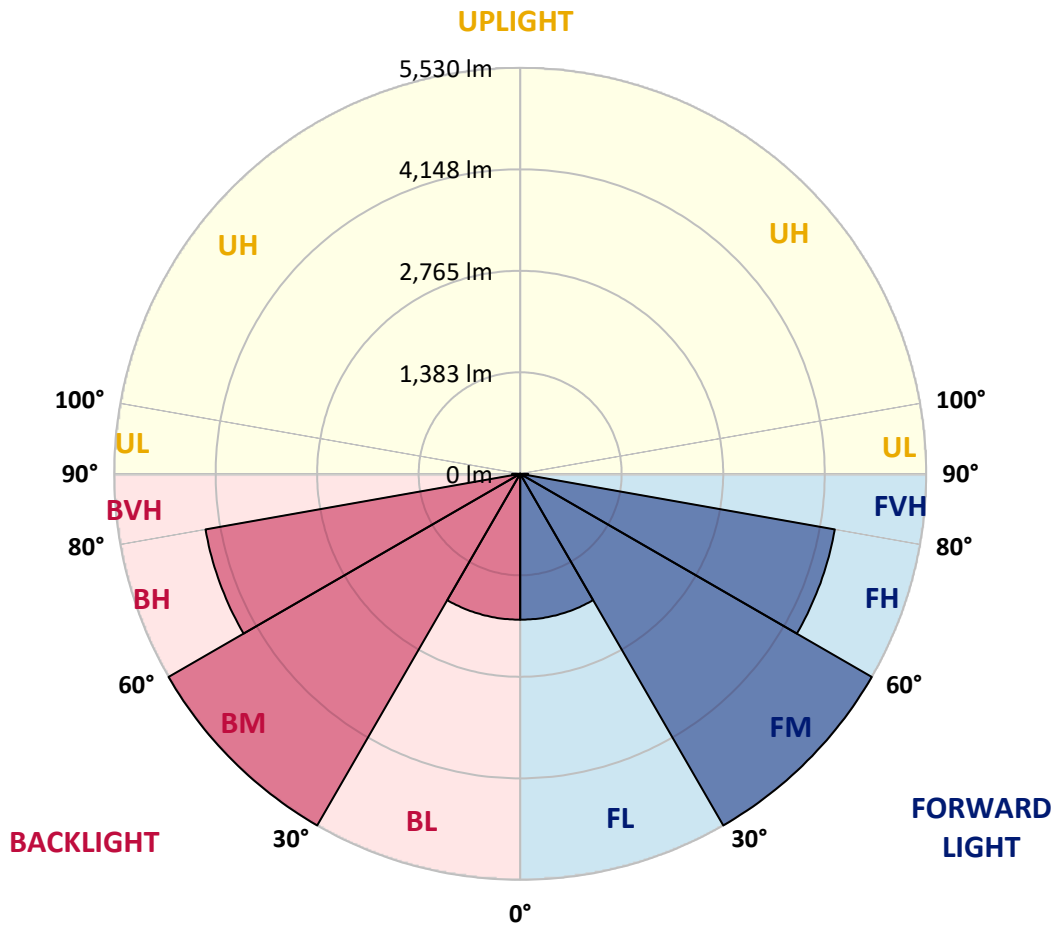
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1987.2	8.3			
FM (30°-60°)	5530.0	23.1			
FH (60°-80°)	4351.9	18.2			G2/5000
FVH (80°-90°)	109.9	0.5			G2/225
BL (0°-30°)	1987.2	8.3	B3/2500		
BM (30°-60°)	5530.0	23.1	B4/8500		
BH (60°-80°)	4351.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	109.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4476.8	4476.8	4476.8	4476.8	4476.8	4476.8	4476.8	4476.8	4476.8	4476.8	4476.8
2.5°	4480.6	4485.7	4485.7	4481.9	4490.8	4483.2	4483.2	4479.4	4483.2	4479.4	4479.4
5°	4503.5	4509.9	4512.5	4511.2	4522.6	4516.3	4516.3	4511.2	4512.5	4508.6	4508.6
7.5°	4546.8	4555.7	4560.8	4567.2	4583.8	4576.1	4571.0	4555.7	4549.4	4539.2	4539.2
10°	4560.8	4571.0	4587.6	4620.7	4658.9	4660.2	4644.9	4606.7	4577.4	4554.5	4550.7
12.5°	4517.5	4531.6	4565.9	4633.4	4718.7	4753.1	4728.9	4665.2	4608.0	4567.2	4560.8
15°	4462.8	4478.1	4530.3	4632.1	4758.2	4838.4	4835.9	4751.8	4660.2	4596.5	4586.3
17.5°	4377.5	4392.8	4467.9	4610.5	4788.8	4921.2	4956.8	4870.2	4741.6	4656.3	4642.3
20°	4223.4	4237.4	4341.8	4541.7	4798.9	5009.0	5102.0	5025.6	4865.2	4749.3	4727.6
22.5°	4023.5	4045.2	4167.4	4423.3	4774.7	5100.7	5267.5	5215.3	5009.0	4848.6	4819.3
25°	3809.6	3832.5	3975.1	4278.2	4712.4	5166.9	5463.6	5430.5	5172.0	4972.1	4931.4
27.5°	3625.0	3649.2	3804.5	4134.3	4615.6	5192.4	5657.1	5673.7	5369.4	5108.3	5065.1
30°	3479.8	3502.8	3668.3	4018.4	4490.8	5166.9	5826.5	5941.1	5570.5	5226.8	5164.4
32.5°	3320.7	3350.0	3524.4	3877.1	4343.1	5105.8	5974.2	6230.1	5803.5	5354.1	5275.1
35°	3119.5	3146.2	3329.6	3683.6	4149.6	5007.8	6097.7	6551.0	6137.1	5547.6	5459.8
37.5°	2875.0	2900.5	3082.6	3441.6	3957.3	4870.2	6191.9	6912.6	6534.4	5826.5	5709.3
40°	2629.3	2653.5	2824.1	3171.7	3726.9	4694.5	6225.0	7266.5	6990.2	6209.7	6084.9
42.5°	2403.9	2425.6	2582.2	2905.6	3468.4	4470.4	6181.7	7574.7	7399.0	6477.1	6316.7
45°	2196.4	2215.5	2354.3	2656.0	3199.7	4198.0	6051.8	7905.7	7885.3	6668.1	6451.6
47.5°	1959.6	1978.7	2122.5	2414.1	2931.1	3878.4	5831.6	8231.7	8561.4	7101.0	6851.4
50°	1670.5	1687.1	1834.8	2135.3	2652.2	3538.4	5526.0	8487.6	9414.5	7756.7	7443.5
52.5°	1328.0	1345.8	1489.7	1790.2	2321.2	3173.0	5123.6	8654.4	10400.0	8714.2	8328.4
55°	988.1	1000.8	1125.6	1395.5	1911.2	2756.6	4619.4	8701.5	11518.0	10023.2	9540.6
57.5°	716.8	724.5	804.7	1005.9	1449.0	2235.9	4007.0	8579.3	12848.5	11701.3	11094.0
60°	580.6	583.2	607.3	696.5	1007.2	1647.6	3267.2	8159.1	14292.4	13864.6	13099.4
62.5°	527.1	527.1	533.5	557.7	681.2	1087.4	2372.1	7288.2	15840.7	16598.3	15573.3
65°	490.2	490.2	492.8	504.2	537.3	692.7	1497.4	5869.8	17145.8	19800.6	18504.4
67.5°	457.1	458.4	457.1	460.9	480.0	511.9	868.4	4054.1	17848.7	23118.7	21719.4
70°	422.7	425.3	418.9	418.9	434.2	435.5	543.7	2223.1	17265.5	25899.5	25531.5
72.5°	382.0	385.8	375.6	373.1	384.5	379.4	408.7	1067.0	14823.4	26729.7	27697.4
75°	346.3	351.4	328.5	322.1	322.1	318.3	332.3	547.5	9620.8	21804.7	23322.4
77.5°	314.5	324.7	287.8	267.4	262.3	250.8	271.2	334.9	4208.1	10237.1	10024.4
80°	259.7	273.8	236.8	212.6	203.7	191.0	213.9	234.3	1251.6	2377.2	2276.6
82.5°	193.5	199.9	168.1	151.5	143.9	135.0	160.4	163.0	407.4	841.6	951.1
85°	123.5	126.1	103.1	89.1	85.3	81.5	101.9	89.1	155.3	618.8	898.9
87.5°	43.3	49.7	39.5	35.7	38.2	31.8	47.1	26.7	43.3	436.7	541.1
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)