

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: P885302

Luminaire Tested: **NAV-SB6C-740-U-5WQ**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-740-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

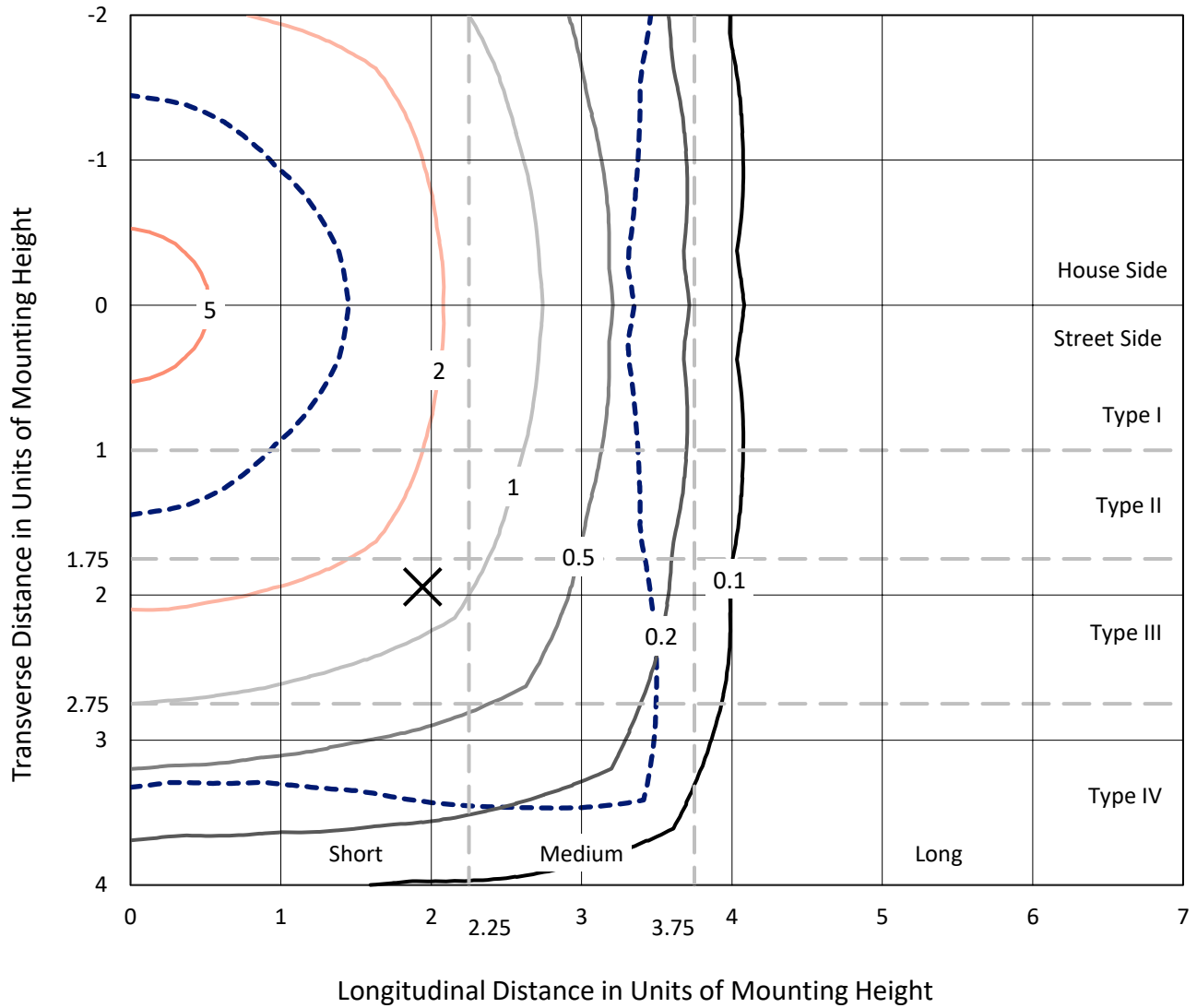
Lumens per Lamp: N/A  
Luminaire Lumens: 49572 lumens  
Efficiency: N/A  
Efficacy: 164.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

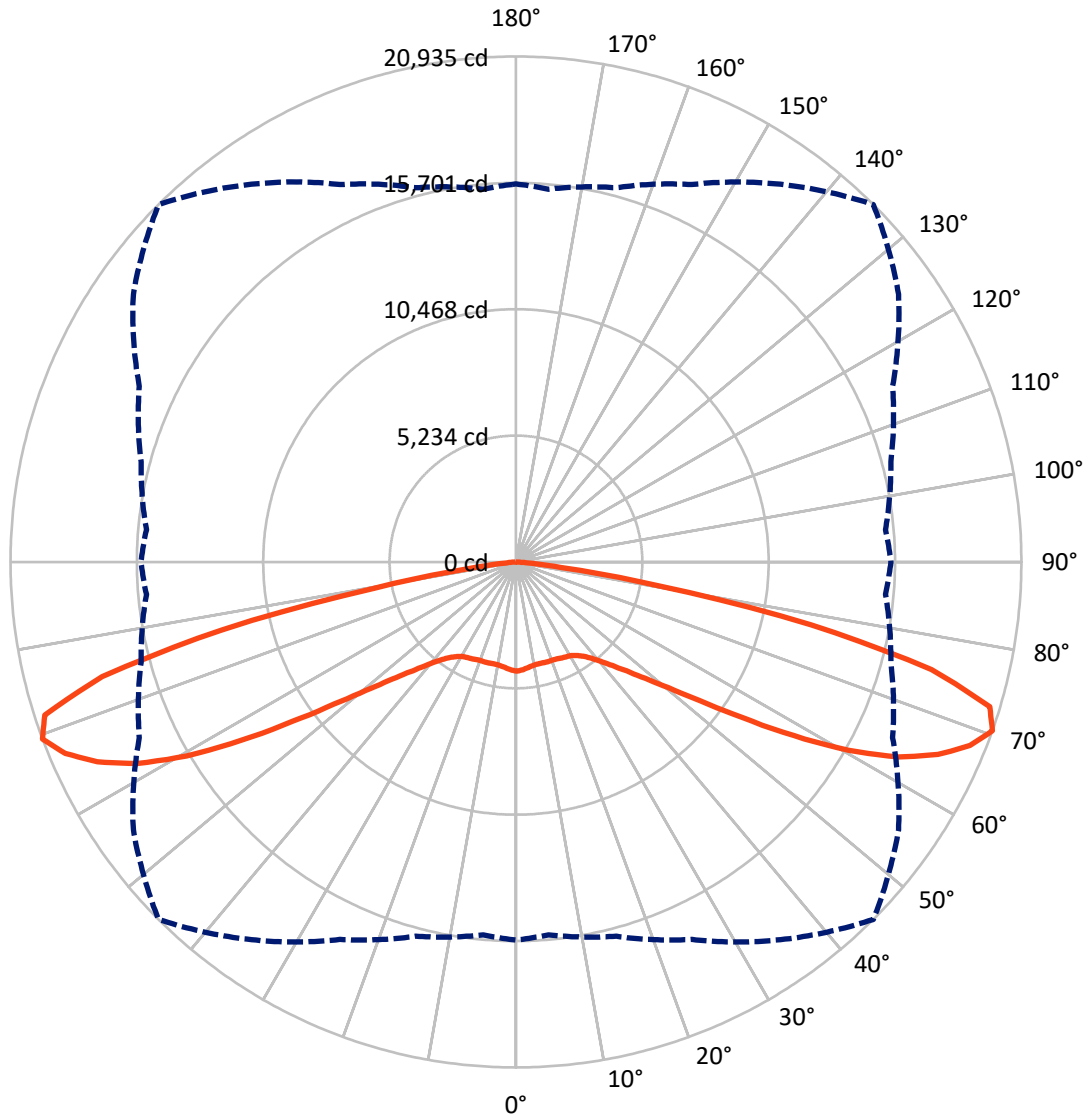
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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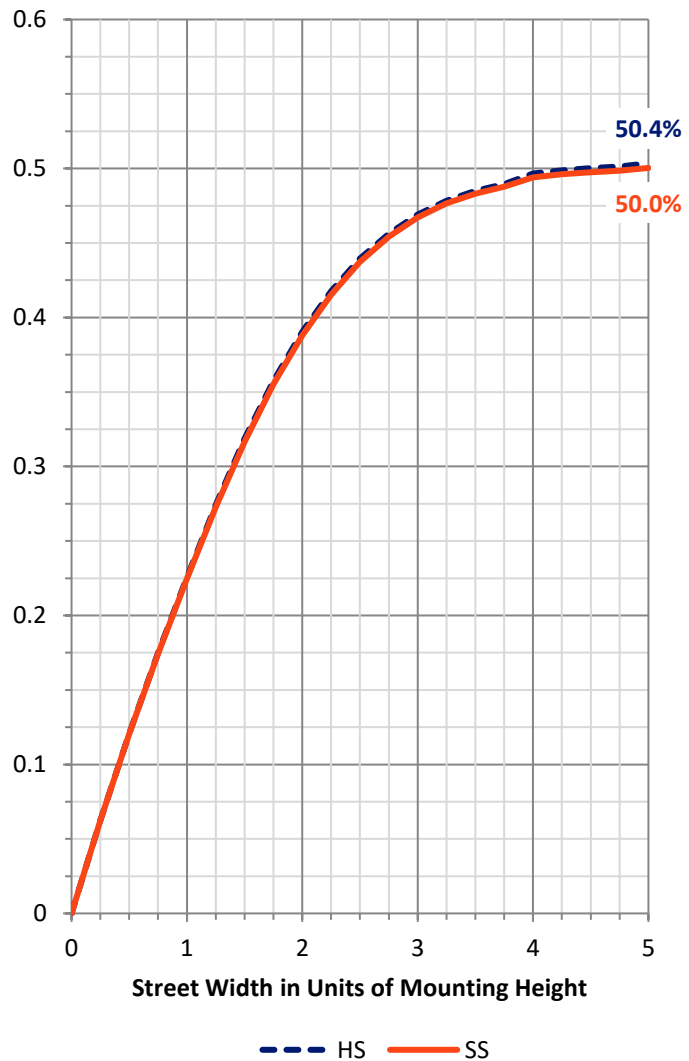
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24786.0	0.0	24786.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24786.0	0.0	24786.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	49572.0	0.0	49572.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.7	0.8
10°-20°	1235.1	2.5
20°-30°	2055.4	4.1
30°-40°	3108.4	6.3
40°-50°	5165.5	10.4
50°-60°	9747.1	19.7
60°-70°	16458.3	33.2
70°-80°	10814.8	21.8
80°-90°	566.6	1.1
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°	49572.0	100.0
0°-180°	49572.0	100.0

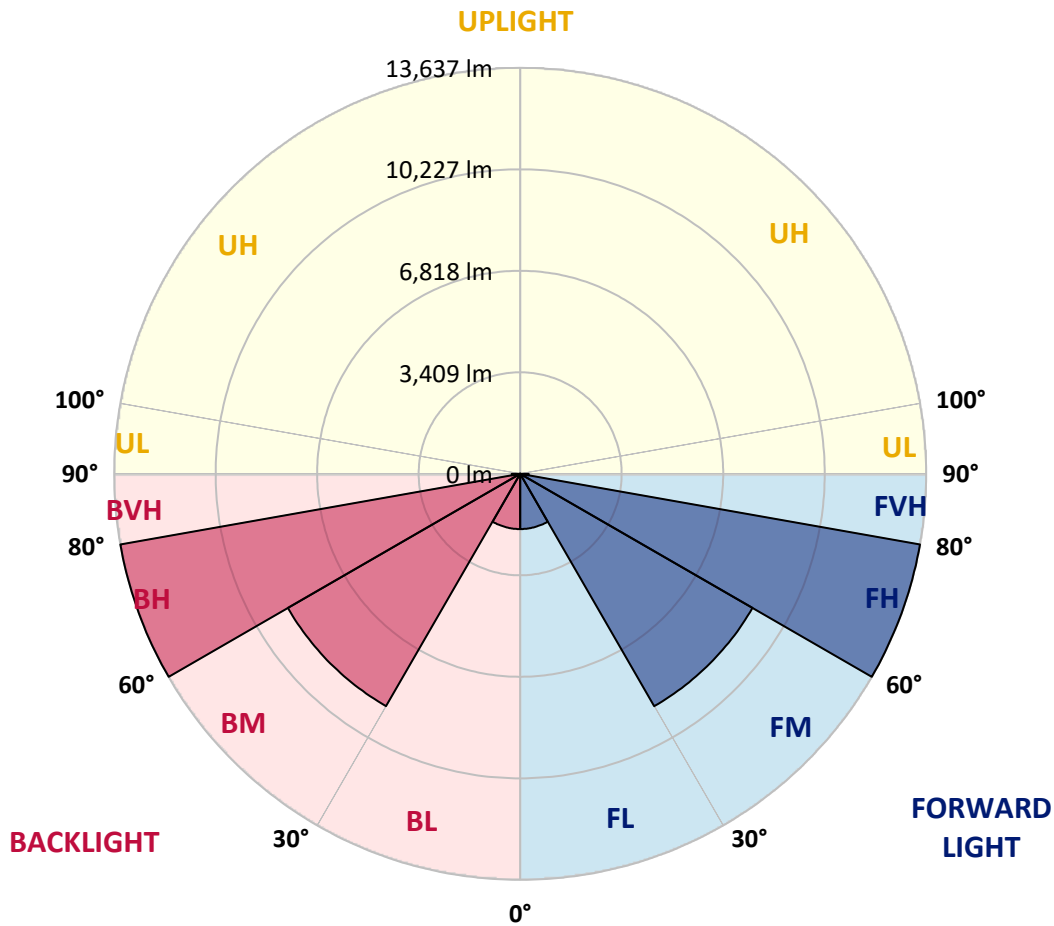


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1855.6	3.7			
FM (30°-60°)	9010.5	18.2			
FH (60°-80°)	13636.6	27.5			G5
FVH (80°-90°)	283.3	0.6			G3/500
BL (0°-30°)	1855.6	3.7	B3/2500		
BM (30°-60°)	9010.5	18.2	B5		
BH (60°-80°)	13636.6	27.5	B5		G5
BVH (80°-90°)	283.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4522.0	4522.0	4522.0	4522.0	4522.0	4522.0	4522.0	4522.0	4522.0	4522.0	4522.0
2.5°	4493.6	4506.5	4501.4	4491.0	4491.0	4483.3	4491.0	4496.2	4503.9	4509.1	4506.5
5°	4434.4	4444.7	4442.1	4434.4	4436.9	4429.2	4434.4	4442.1	4447.2	4449.8	4449.8
7.5°	4382.8	4393.1	4388.0	4375.1	4375.1	4367.4	4369.9	4377.7	4385.4	4388.0	4388.0
10°	4369.9	4380.3	4364.8	4344.2	4336.4	4326.1	4328.7	4336.4	4351.9	4359.6	4359.6
12.5°	4375.1	4382.8	4367.4	4336.4	4328.7	4318.4	4318.4	4326.1	4346.8	4357.1	4359.6
15°	4390.6	4398.3	4375.1	4341.6	4333.9	4326.1	4323.6	4333.9	4357.1	4375.1	4377.7
17.5°	4418.9	4426.6	4390.6	4344.2	4333.9	4336.4	4333.9	4341.6	4377.7	4411.2	4411.2
20°	4444.7	4449.8	4400.9	4344.2	4333.9	4336.4	4333.9	4349.3	4395.7	4442.1	4444.7
22.5°	4452.4	4457.5	4411.2	4362.2	4354.5	4357.1	4354.5	4369.9	4413.7	4460.1	4460.1
25°	4455.0	4462.7	4426.6	4388.0	4400.9	4406.0	4400.9	4403.4	4436.9	4478.2	4475.6
27.5°	4493.6	4503.9	4470.4	4436.9	4444.7	4442.1	4449.8	4457.5	4483.3	4524.5	4514.2
30°	4573.5	4581.2	4552.9	4519.4	4514.2	4496.2	4519.4	4545.2	4573.5	4609.6	4601.8
32.5°	4704.9	4720.4	4684.3	4648.2	4625.0	4614.7	4632.8	4676.6	4715.2	4753.9	4738.4
35°	4923.9	4934.2	4900.7	4833.7	4792.5	4792.5	4808.0	4864.7	4926.5	4975.4	4957.4
37.5°	5233.1	5246.0	5186.7	5106.9	5045.0	5045.0	5065.6	5124.9	5217.7	5287.2	5261.5
40°	5609.3	5627.3	5552.6	5470.2	5410.9	5400.6	5426.4	5493.3	5581.0	5668.6	5640.2
42.5°	6062.8	6083.4	5985.5	5913.3	5867.0	5867.0	5879.8	5941.7	6021.6	6129.8	6122.0
45°	6642.5	6678.6	6544.6	6472.5	6428.7	6439.0	6446.7	6500.8	6573.0	6696.6	6691.5
47.5°	7333.1	7369.1	7227.4	7152.7	7145.0	7193.9	7163.0	7201.6	7240.3	7382.0	7340.8
50°	8116.3	8178.2	8080.3	8075.1	8090.6	8180.8	8108.6	8129.2	8085.4	8175.6	8121.5
52.5°	9074.8	9165.0	9147.0	9177.9	9350.5	9536.1	9371.2	9299.0	9134.1	9162.5	9067.1
55°	10236.9	10373.5	10399.2	10584.7	10976.4	11355.2	11004.7	10713.6	10363.2	10298.7	10198.3
57.5°	11558.7	11666.9	11790.6	12169.4	12901.1	13573.6	12901.1	12257.0	11705.6	11574.2	11481.4
60°	12981.0	13115.0	13233.5	13792.6	14880.0	15825.6	14859.4	13836.4	13107.3	12929.5	12774.9
62.5°	14508.9	14681.6	14764.0	15385.0	16652.7	17781.2	16670.7	15431.4	14622.3	14431.6	14277.0
65°	15975.0	16116.7	16209.5	16871.7	18082.7	19213.8	18165.2	16943.8	16111.6	15861.7	15738.0
67.5°	16657.8	16735.1	16961.9	17711.7	18989.7	20280.6	19206.1	17791.5	16861.4	16423.4	16428.5
70°	15658.1	15500.9	16047.2	17247.9	19097.9	20935.0	19345.2	17211.8	16072.9	15361.8	15531.9
72.5°	12099.8	11829.3	12777.4	14831.0	17861.1	20517.6	17984.8	14947.0	13367.5	11924.6	12282.7
75°	6583.3	6276.6	7585.6	10182.8	14243.5	17783.8	14570.8	10474.0	8446.2	6534.3	6959.4
77.5°	1857.7	1741.8	2798.2	4926.5	8567.3	12486.3	8897.1	5034.7	3318.7	1968.5	2187.5
80°	569.4	551.4	747.2	1484.1	3638.2	5980.3	3496.5	1502.2	950.8	600.4	633.8
82.5°	337.5	309.2	371.0	541.1	927.6	1878.4	901.8	564.3	453.5	304.0	329.8
85°	193.2	180.4	219.0	262.8	311.8	399.4	260.2	268.0	242.2	162.3	170.1
87.5°	79.9	72.1	85.0	82.5	72.1	92.8	69.6	82.5	97.9	64.4	59.3
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)