

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: P970301

Luminaire Tested: **NAV-SB6B-727-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970301  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6B-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32116.3 lumens  
Efficiency: N/A  
Efficacy: 145.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

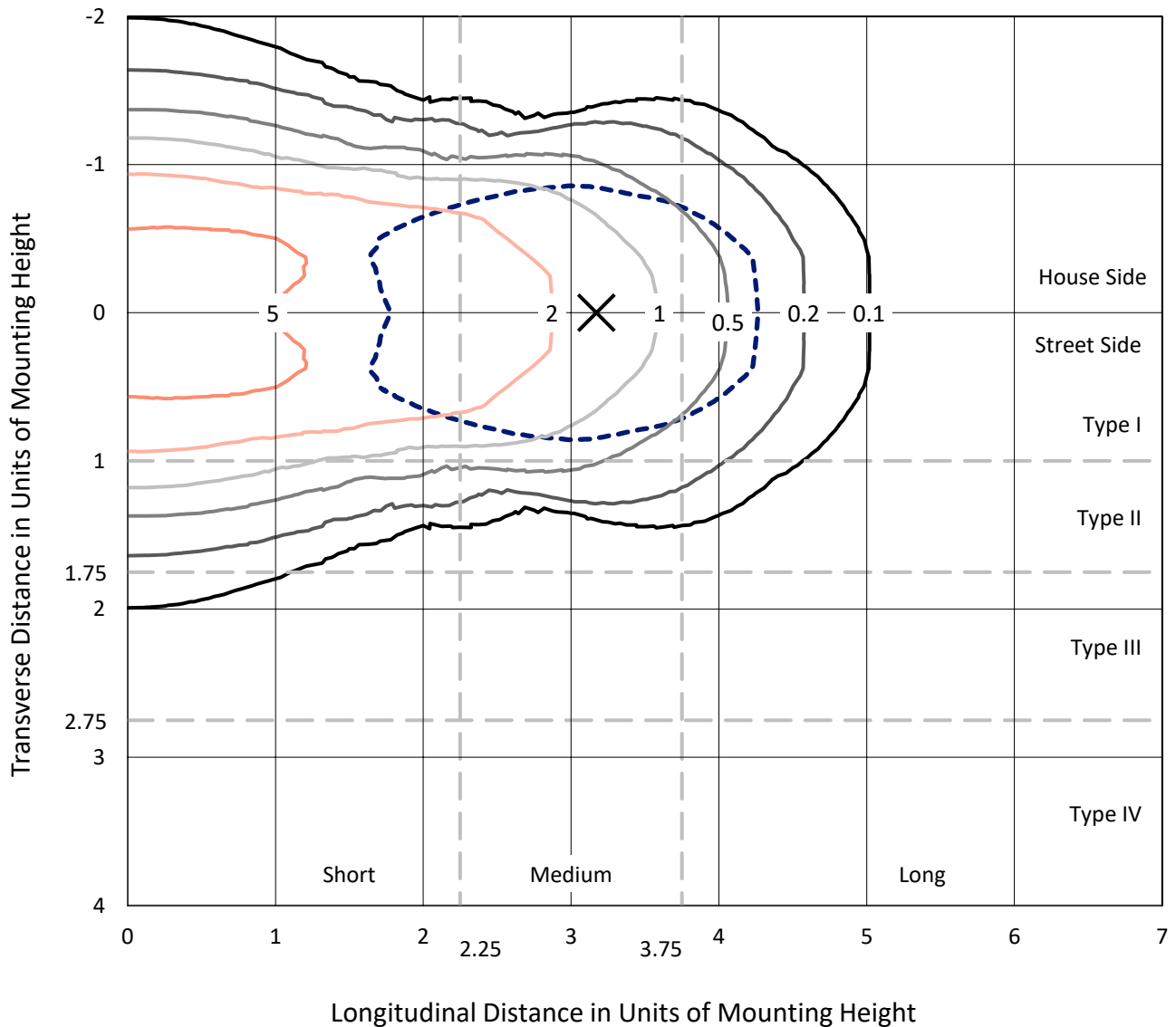
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

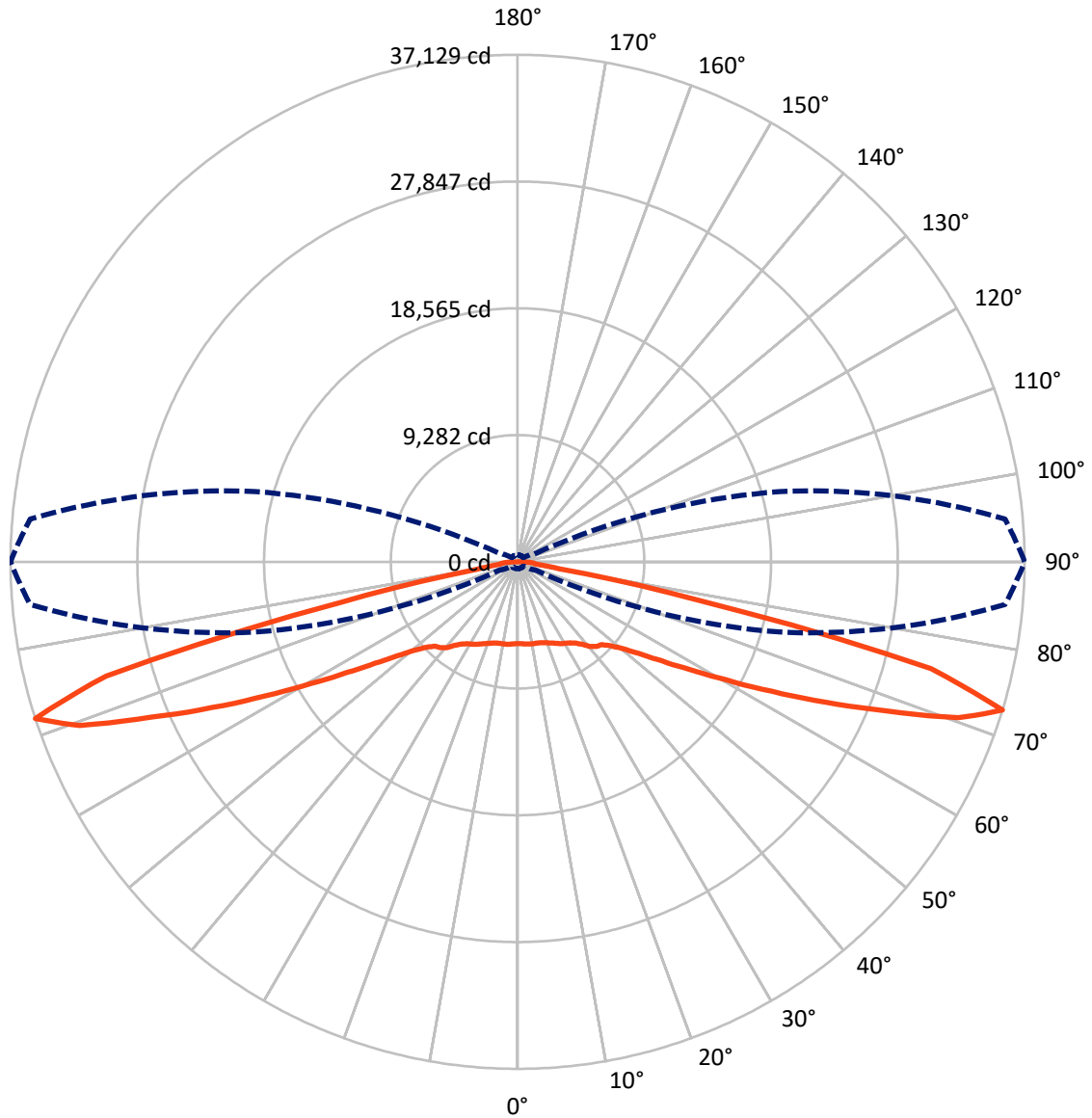
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16058.2	0.0	16058.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16058.2	0.0	16058.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32116.3	0.0	32116.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	581.9	1.8
10°-20°	1779.2	5.5
20°-30°	2966.7	9.2
30°-40°	4080.1	12.7
40°-50°	4982.9	15.5
50°-60°	5763.2	17.9
60°-70°	6871.7	21.4
70°-80°	4796.0	14.9
80°-90°	294.6	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°	32116.3	100.0
0°-180°	32116.3	100.0

**Coefficient of Utilization**

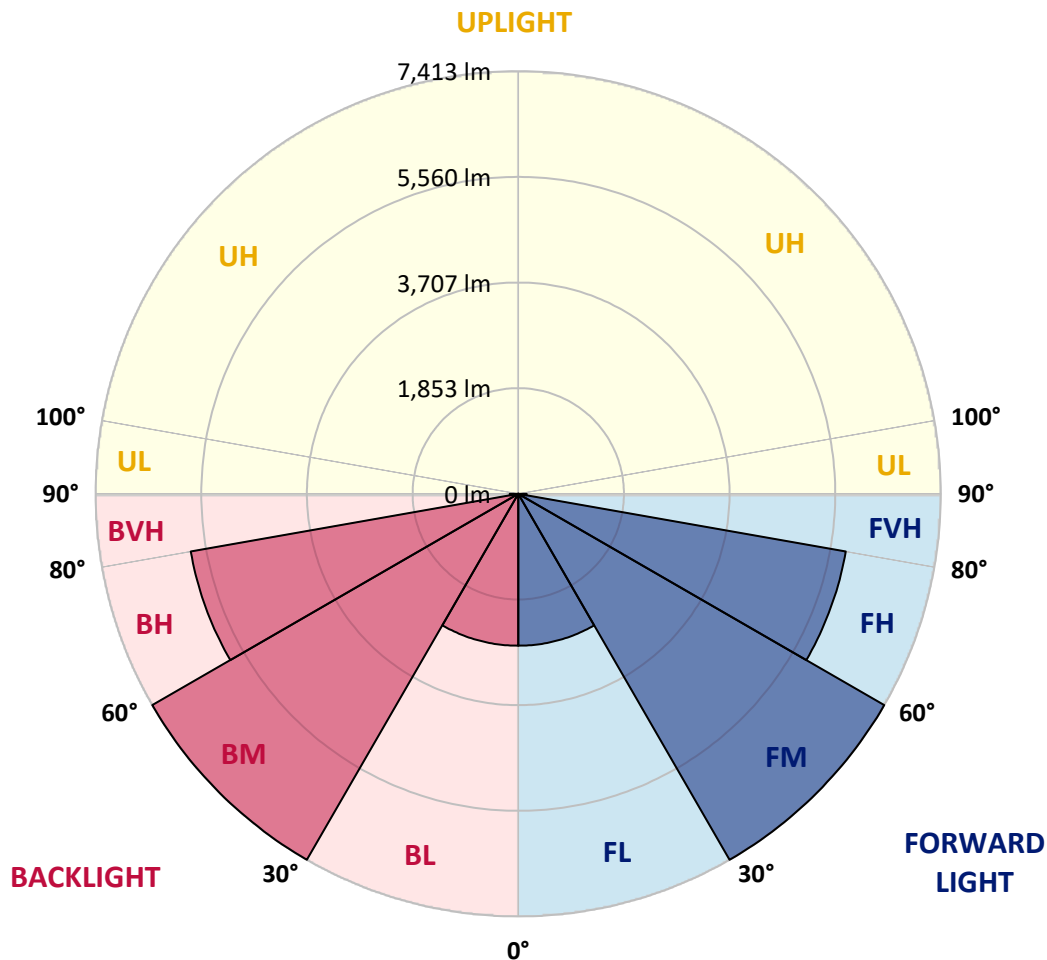


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2663.9	8.3			
FM (30°-60°)	7413.1	23.1			
FH (60°-80°)	5833.9	18.2			G3/7500
FVH (80°-90°)	147.3	0.5			G2/225
BL (0°-30°)	2663.9	8.3	B4/5000		
BM (30°-60°)	7413.1	23.1	B4/8500		
BH (60°-80°)	5833.9	18.2	B5		G5
BVH (80°-90°)	147.3	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°	6001.3	6001.3	6001.3	6001.3	6001.3	6001.3	6001.3	6001.3	6001.3	6001.3	6001.3
2.5°	6006.4	6013.3	6013.3	6008.1	6020.0	6009.8	6009.8	6004.7	6009.8	6004.7	6004.7
5°	6037.1	6045.7	6049.0	6047.4	6062.7	6054.2	6054.2	6047.4	6049.0	6043.9	6043.9
7.5°	6095.2	6107.1	6113.9	6122.4	6144.7	6134.4	6127.6	6107.1	6098.5	6084.9	6084.9
10°	6113.9	6127.6	6149.8	6194.2	6245.3	6247.1	6226.6	6175.4	6136.2	6105.4	6100.3
12.5°	6055.9	6074.7	6120.8	6211.2	6325.6	6371.7	6339.2	6253.9	6177.1	6122.4	6113.9
15°	5982.5	6003.0	6072.9	6209.6	6378.5	6486.0	6482.6	6370.0	6247.1	6161.7	6148.1
17.5°	5868.1	5888.6	5989.3	6180.4	6419.5	6597.0	6644.8	6528.7	6356.3	6241.9	6223.2
20°	5661.6	5680.3	5820.4	6088.3	6433.1	6714.8	6839.3	6736.9	6521.9	6366.6	6337.5
22.5°	5393.7	5422.7	5586.6	5929.6	6400.7	6837.7	7061.2	6991.2	6714.8	6499.6	6460.4
25°	5106.9	5137.6	5328.8	5735.0	6317.1	6926.3	7324.0	7279.7	6933.2	6665.3	6610.6
27.5°	4859.4	4891.8	5100.1	5542.2	6187.3	6960.6	7583.6	7605.7	7197.8	6847.8	6789.8
30°	4664.8	4695.5	4917.4	5386.8	6020.0	6926.3	7810.5	7964.1	7467.4	7006.6	6923.0
32.5°	4451.5	4490.7	4724.5	5197.4	5822.1	6844.4	8008.5	8351.6	7779.9	7177.3	7071.5
35°	4181.8	4217.7	4463.4	4937.9	5562.6	6713.0	8174.1	8781.7	8227.0	7436.7	7318.9
37.5°	3854.1	3888.2	4132.3	4613.6	5304.9	6528.7	8300.3	9266.5	8759.5	7810.5	7653.5
40°	3524.7	3557.1	3785.8	4251.8	4996.0	6293.2	8344.7	9741.0	9370.6	8324.3	8157.1
42.5°	3222.5	3251.5	3461.5	3895.0	4649.5	5992.8	8286.7	10154.1	9918.5	8682.8	8467.6
45°	2944.3	2969.9	3156.0	3560.4	4289.3	5627.5	8112.7	10597.8	10570.5	8938.7	8648.6
47.5°	2626.9	2652.4	2845.3	3236.2	3929.1	5199.0	7817.4	11034.7	11476.8	9519.1	9184.5
50°	2239.4	2261.6	2459.6	2862.4	3555.3	4743.3	7407.7	11377.8	12620.4	10398.1	9978.3
52.5°	1780.2	1804.1	1997.0	2399.8	3111.6	4253.4	6868.3	11601.5	13941.5	11681.6	11164.5
55°	1324.5	1341.6	1508.9	1870.7	2562.0	3695.3	6192.4	11664.6	15440.1	13436.3	12789.4
57.5°	960.9	971.2	1078.7	1348.4	1942.4	2997.2	5371.4	11500.7	17223.8	15685.9	14871.7
60°	778.3	781.8	814.2	933.7	1350.1	2208.7	4379.7	10937.5	19159.4	18585.8	17560.0
62.5°	706.6	706.6	715.1	747.6	913.2	1457.7	3179.9	9770.0	21234.9	22250.5	20876.5
65°	657.1	657.1	660.5	675.9	720.3	928.5	2007.3	7868.5	22984.4	26543.2	24805.6
67.5°	612.7	614.5	612.7	617.9	643.5	686.1	1164.1	5434.5	23926.6	30991.2	29115.4
70°	566.7	570.1	561.6	561.6	582.0	583.7	728.8	2980.2	23144.8	34719.0	34225.7
72.5°	512.1	517.2	503.5	500.1	515.5	508.6	547.9	1430.4	19871.2	35831.8	37129.1
75°	464.2	471.1	440.3	431.8	431.8	426.7	445.5	733.9	12897.0	29229.7	31264.3
77.5°	421.6	435.2	385.7	358.4	351.6	336.2	363.6	449.0	5641.1	13723.0	13438.1
80°	348.2	367.0	317.4	285.1	273.1	256.0	286.8	314.1	1677.8	3186.7	3051.8
82.5°	259.4	267.9	225.3	203.2	192.9	180.9	215.0	218.4	546.2	1128.2	1275.0
85°	165.5	169.0	138.3	119.5	114.4	109.3	136.5	119.5	208.3	829.5	1205.0
87.5°	58.0	66.5	52.9	47.8	51.2	42.6	63.1	35.9	58.0	585.5	725.4
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)