

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: P969774

Luminaire Tested: **NAV-SB6A-727-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969774  
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-SB6A-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25584 lumens  
Efficiency: N/A  
Efficacy: 149.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

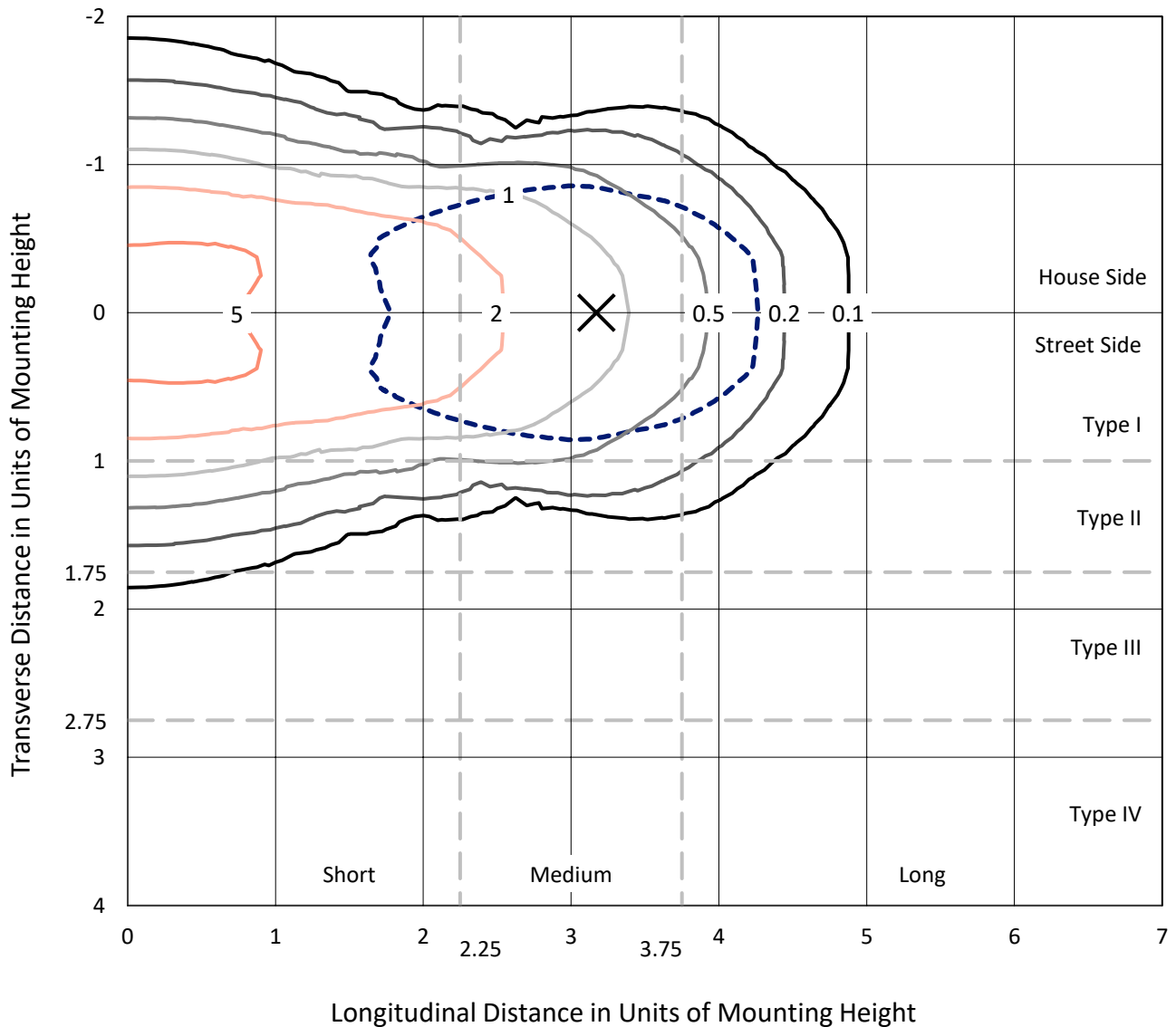
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

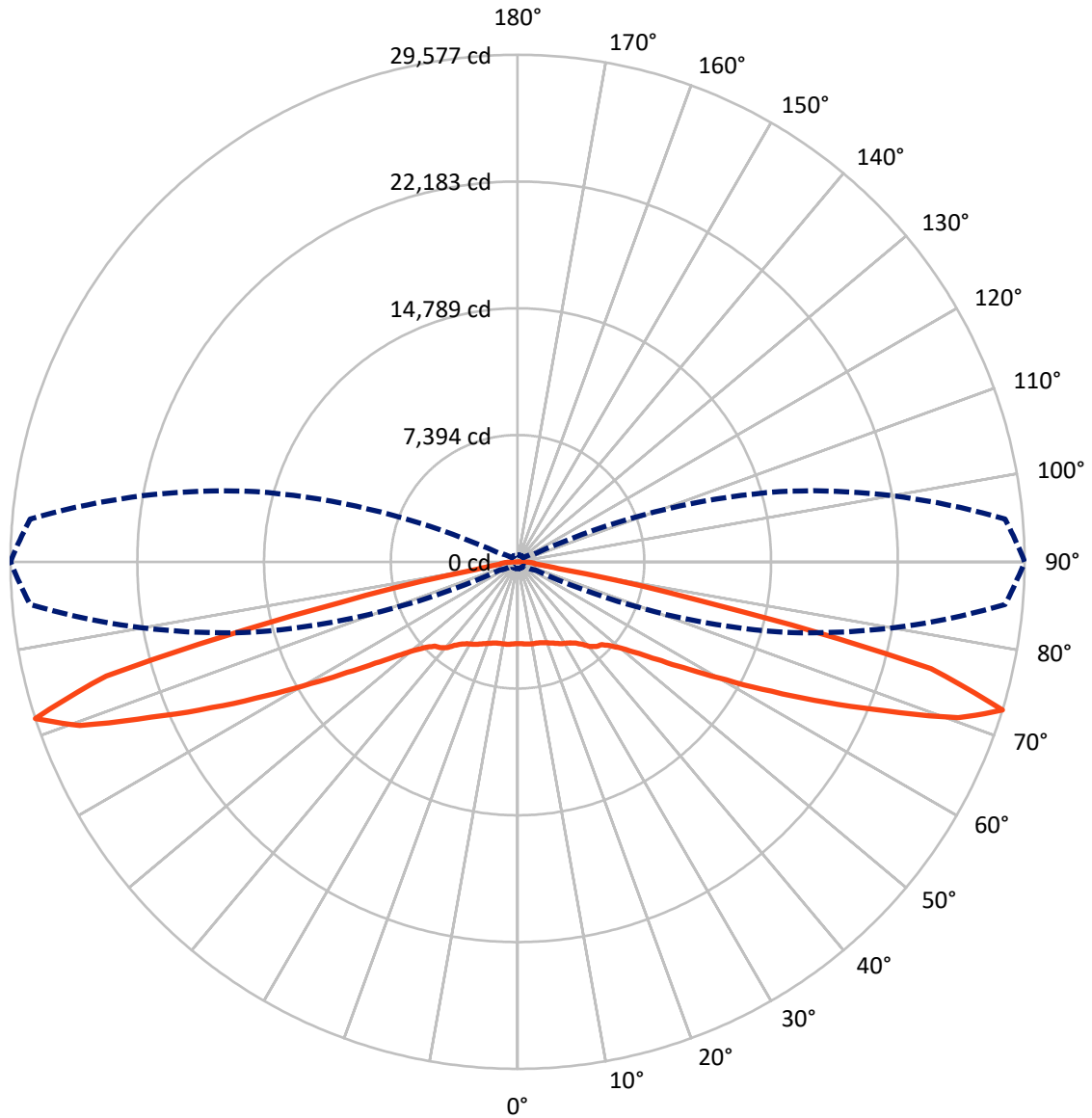
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	12792.0	0.0	12792.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12792.0	0.0	12792.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25584.0	0.0	25584.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	463.5	1.8
10°-20°	1417.3	5.5
20°-30°	2363.3	9.2
30°-40°	3250.2	12.7
40°-50°	3969.4	15.5
50°-60°	4591.0	17.9
60°-70°	5474.0	21.4
70°-80°	3820.5	14.9
80°-90°	234.7	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°	25584.0	100.0
0°-180°	25584.0	100.0

**Coefficient of Utilization**

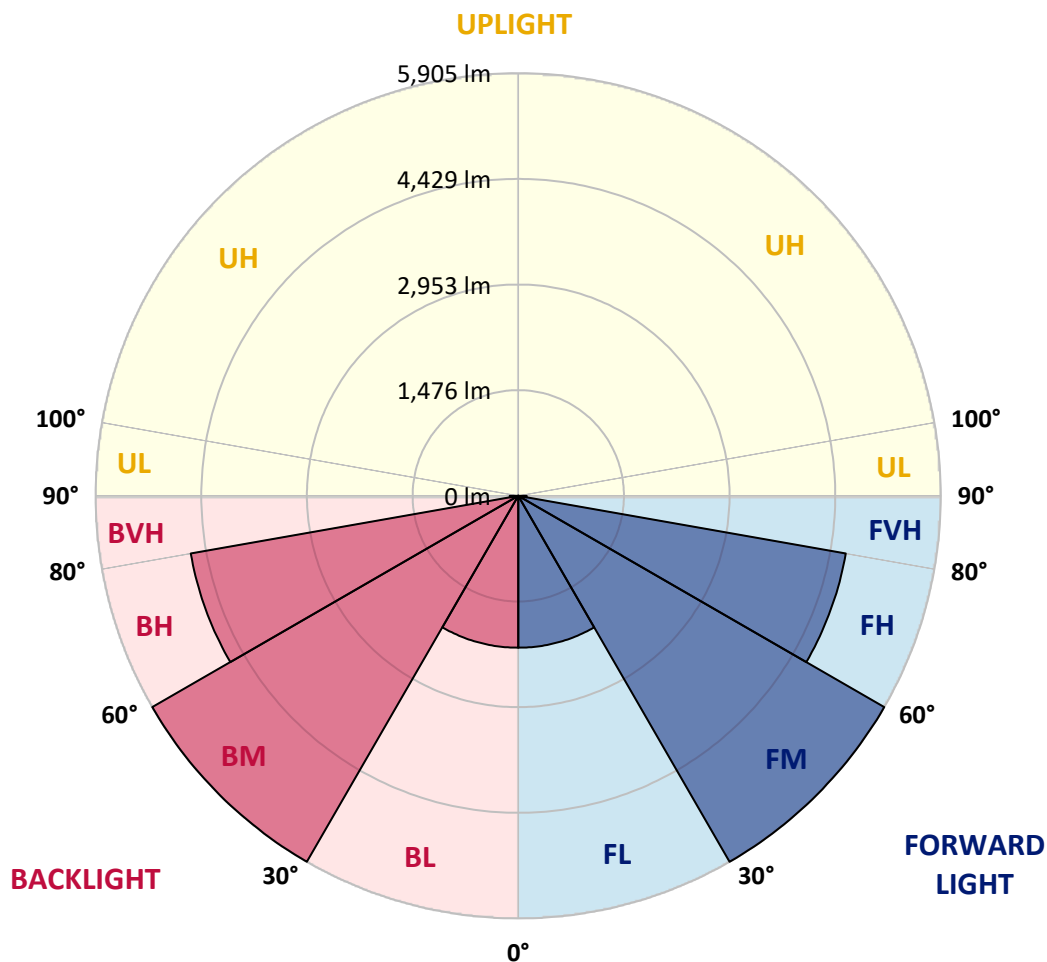


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2122.1	8.3			
FM (30°-60°)	5905.3	23.1			
FH (60°-80°)	4647.3	18.2			G2/5000
FVH (80°-90°)	117.3	0.5			G2/225
BL (0°-30°)	2122.1	8.3	B3/2500		
BM (30°-60°)	5905.3	23.1	B4/8500		
BH (60°-80°)	4647.3	18.2	B4/5000		G4/5000
BVH (80°-90°)	117.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6	4780.6
2.5°	4784.7	4790.1	4790.1	4786.0	4795.6	4787.5	4787.5	4783.4	4787.5	4783.4	4783.4
5°	4809.2	4816.0	4818.7	4817.4	4829.6	4822.8	4822.8	4817.4	4818.7	4814.6	4814.6
7.5°	4855.4	4865.0	4870.4	4877.2	4894.9	4886.7	4881.3	4865.0	4858.2	4847.2	4847.2
10°	4870.4	4881.3	4898.9	4934.2	4975.0	4976.5	4960.1	4919.3	4888.0	4863.6	4859.5
12.5°	4824.2	4839.1	4875.8	4947.9	5039.0	5075.7	5049.9	4981.9	4920.7	4877.2	4870.4
15°	4765.6	4782.0	4837.8	4946.5	5081.1	5166.8	5164.1	5074.4	4976.5	4908.4	4897.6
17.5°	4674.6	4690.9	4771.2	4923.4	5113.7	5255.2	5293.2	5200.7	5063.5	4972.4	4957.4
20°	4510.1	4525.1	4636.5	4850.0	5124.6	5349.0	5448.3	5366.7	5195.3	5071.6	5048.5
22.5°	4296.6	4319.7	4450.2	4723.5	5098.8	5446.8	5625.0	5569.2	5349.0	5177.7	5146.4
25°	4068.1	4092.6	4244.9	4568.5	5032.1	5517.6	5834.4	5799.0	5523.0	5309.6	5266.0
27.5°	3871.0	3896.8	4062.7	4414.9	4928.8	5544.7	6041.0	6058.8	5733.7	5455.0	5408.8
30°	3716.0	3740.5	3917.2	4291.2	4795.6	5517.6	6221.9	6344.2	5948.6	5581.5	5514.9
32.5°	3546.1	3577.4	3763.6	4140.2	4637.9	5452.3	6379.6	6653.0	6197.5	5717.4	5633.2
35°	3331.2	3359.7	3555.5	3933.5	4431.2	5347.6	6511.5	6995.5	6553.6	5924.1	5830.3
37.5°	3070.2	3097.3	3291.8	3675.2	4225.9	5200.7	6612.2	7381.7	6977.9	6221.9	6096.8
40°	2807.8	2833.6	3015.8	3387.0	3979.8	5013.2	6647.4	7759.7	7464.7	6631.1	6497.9
42.5°	2567.1	2590.2	2757.5	3102.8	3703.7	4773.8	6601.2	8088.8	7901.1	6916.7	6745.4
45°	2345.4	2365.8	2514.0	2836.3	3416.8	4482.8	6462.5	8442.3	8420.5	7120.7	6889.5
47.5°	2092.5	2112.9	2266.6	2578.0	3129.9	4141.6	6227.4	8790.3	9142.5	7582.9	7316.4
50°	1783.9	1801.5	1959.3	2280.2	2832.2	3778.6	5901.0	9063.7	10053.5	8283.2	7948.7
52.5°	1418.2	1437.2	1590.8	1911.7	2478.7	3388.3	5471.3	9241.7	11105.9	9305.7	8893.7
55°	1055.1	1068.7	1201.9	1490.2	2040.9	2943.7	4932.9	9292.0	12299.7	10703.5	10188.1
57.5°	765.5	773.7	859.4	1074.1	1547.3	2387.6	4279.0	9161.6	13720.5	12495.5	11846.9
60°	620.0	622.7	648.5	743.7	1075.5	1759.4	3488.9	8712.8	15262.5	14805.6	13988.4
62.5°	562.9	562.9	569.7	595.5	727.4	1161.1	2533.1	7782.8	16915.8	17724.8	16630.2
65°	523.5	523.5	526.2	538.4	573.8	739.6	1599.0	6268.2	18309.5	21144.4	19760.3
67.5°	488.1	489.4	488.1	492.2	512.6	546.6	927.3	4329.2	19060.0	24687.7	23193.5
70°	451.4	454.2	447.3	447.3	463.6	465.0	580.6	2374.0	18437.3	27657.3	27264.4
72.5°	408.0	411.9	401.1	398.4	410.6	405.2	436.4	1139.4	15829.4	28543.8	29577.2
75°	369.8	375.3	350.8	344.0	344.0	339.9	354.9	584.7	10273.8	23284.5	24905.2
77.5°	335.9	346.8	307.3	285.6	280.1	267.8	289.6	357.6	4493.7	10931.8	10704.8
80°	277.4	292.3	252.9	227.0	217.5	204.0	228.5	250.2	1336.6	2538.5	2431.1
82.5°	206.6	213.5	179.5	161.8	153.6	144.1	171.3	174.0	435.1	898.7	1015.7
85°	131.9	134.6	110.1	95.2	91.1	87.0	108.8	95.2	165.8	660.8	959.9
87.5°	46.2	53.0	42.1	38.0	40.8	34.0	50.3	28.6	46.2	466.4	577.9
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)