

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: P970828

Luminaire Tested: **NAV-SB6C-727-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970828  
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-SB6C-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42712.8 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

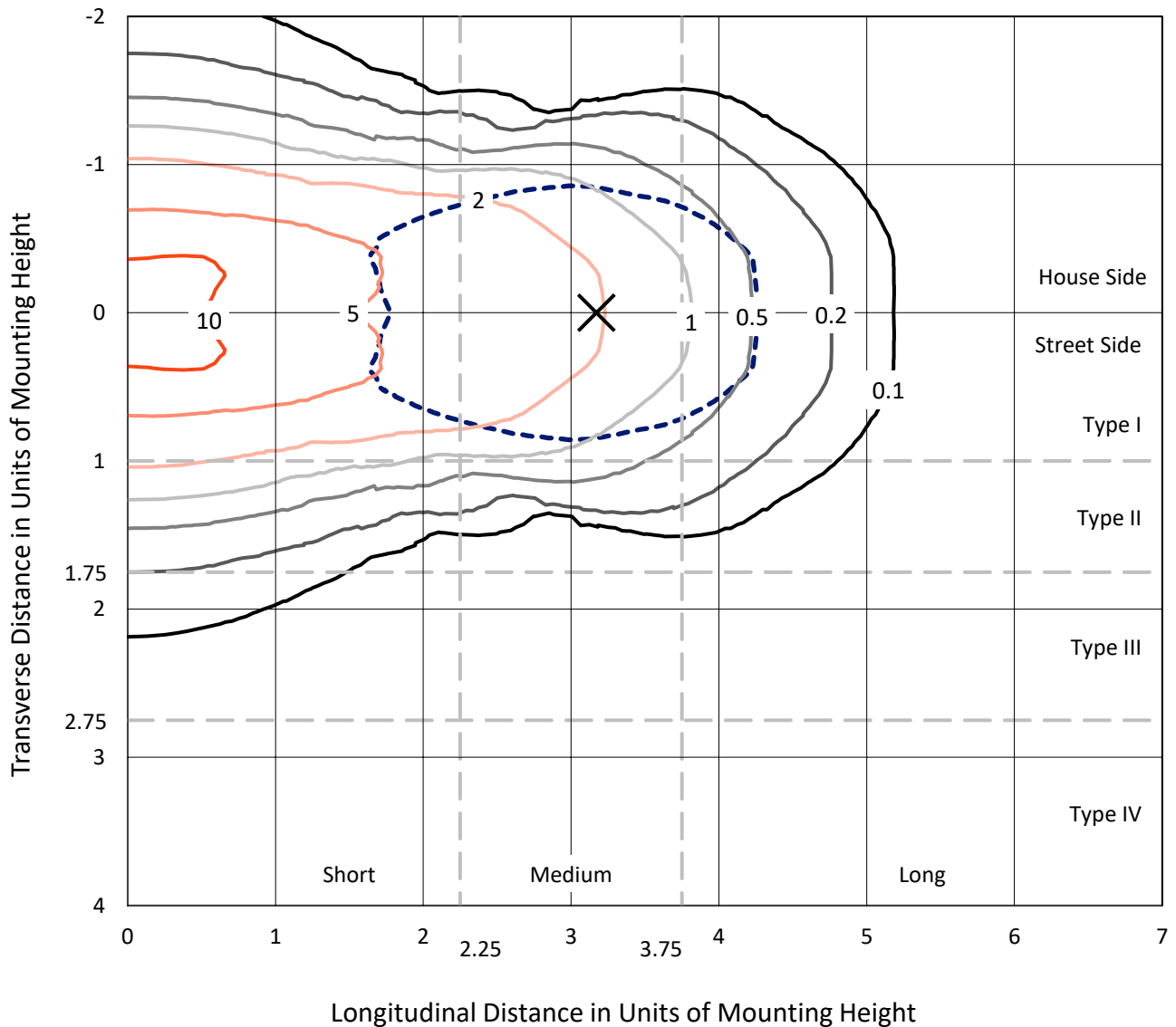
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

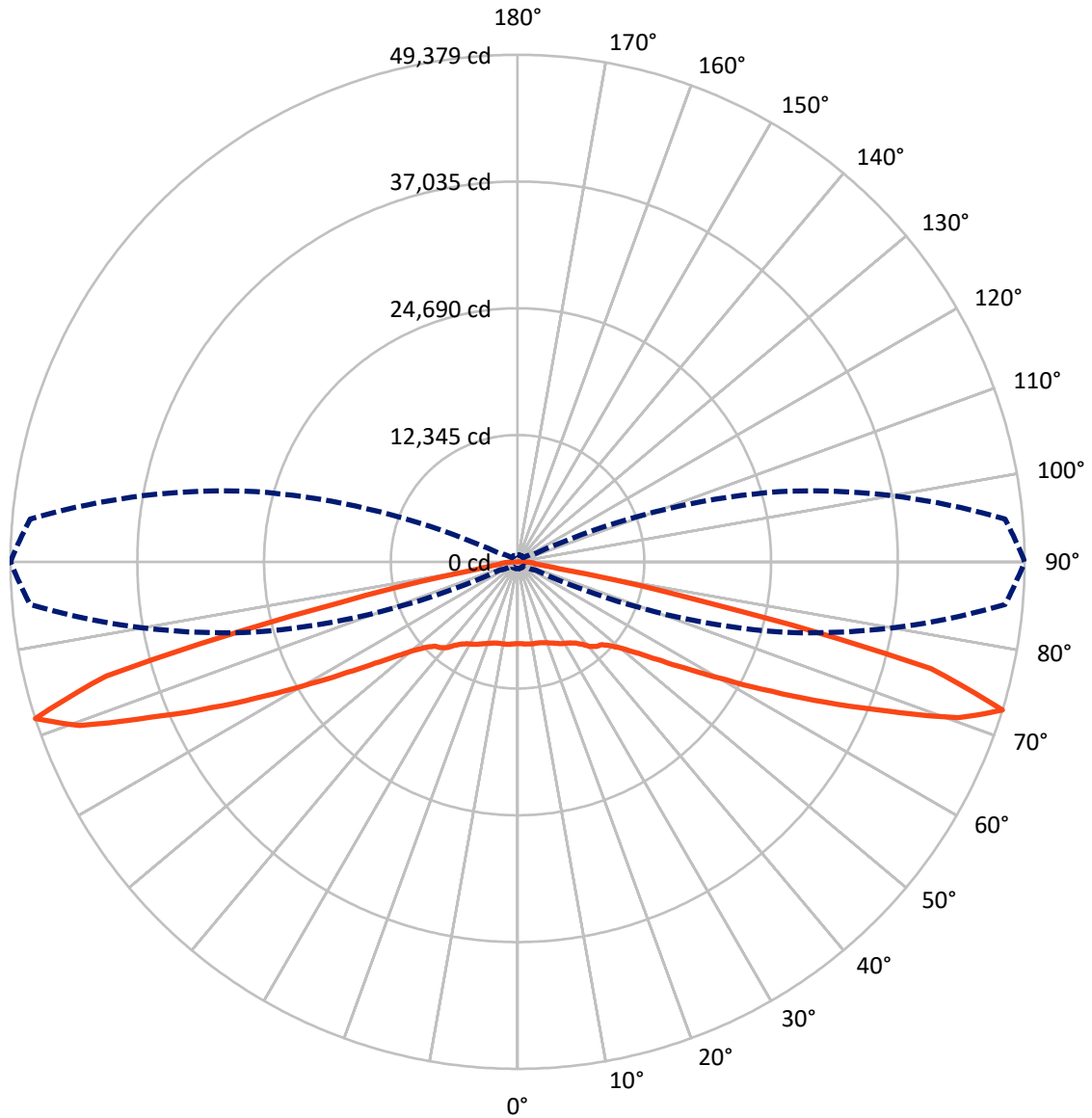
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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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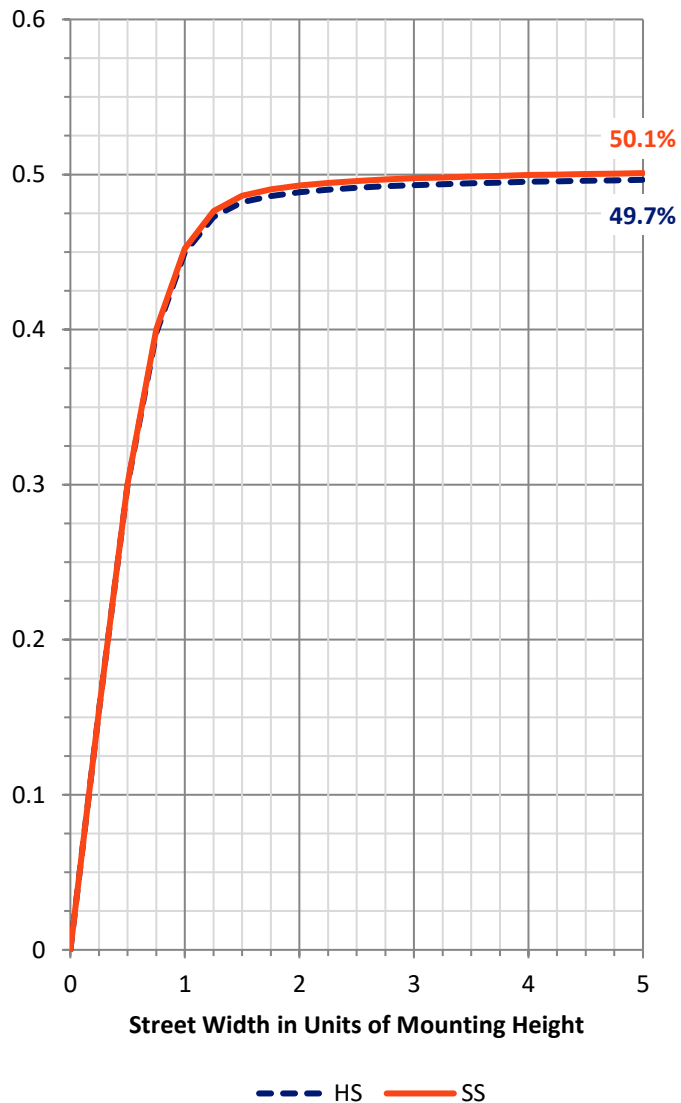
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21356.4	0.0	21356.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21356.4	0.0	21356.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42712.8	0.0	42712.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	773.9	1.8
10°-20°	2366.2	5.5
20°-30°	3945.5	9.2
30°-40°	5426.3	12.7
40°-50°	6627.0	15.5
50°-60°	7664.8	17.9
60°-70°	9139.0	21.4
70°-80°	6378.4	14.9
80°-90°	391.8	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°	42712.8	100.0
0°-180°	42712.8	100.0

**Coefficient of Utilization**

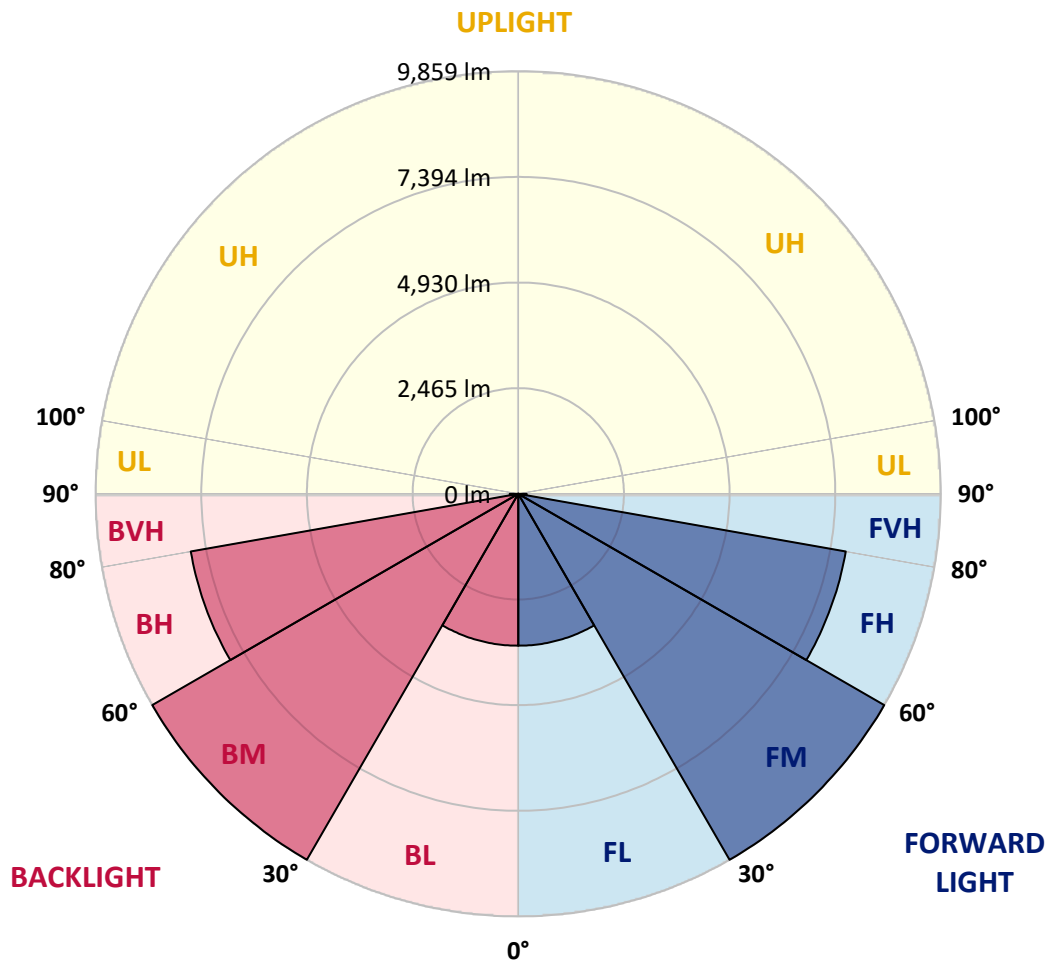


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3542.8	8.3			
FM (30°-60°)	9859.0	23.1			
FH (60°-80°)	7758.7	18.2			G4/12000
FVH (80°-90°)	195.9	0.5			G2/225
BL (0°-30°)	3542.8	8.3	B4/5000		
BM (30°-60°)	9859.0	23.1	B5		
BH (60°-80°)	7758.7	18.2	B5		G5
BVH (80°-90°)	195.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4	7981.4
2.5°	7988.1	7997.3	7997.3	7990.4	8006.3	7992.6	7992.6	7985.9	7992.6	7985.9	7985.9
5°	8029.0	8040.3	8044.9	8042.7	8063.1	8051.7	8051.7	8042.7	8044.9	8038.0	8038.0
7.5°	8106.2	8122.1	8131.1	8142.5	8172.0	8158.4	8149.3	8122.1	8110.7	8092.6	8092.6
10°	8131.1	8149.3	8178.8	8237.8	8306.0	8308.2	8281.0	8212.9	8160.6	8119.8	8113.0
12.5°	8053.9	8078.9	8140.2	8260.6	8412.6	8473.9	8430.8	8317.3	8215.2	8142.5	8131.1
15°	7956.4	7983.6	8076.7	8258.3	8483.0	8626.0	8621.5	8471.6	8308.2	8194.7	8176.5
17.5°	7804.2	7831.5	7965.5	8219.7	8537.5	8773.6	8837.1	8682.8	8453.5	8301.4	8276.5
20°	7529.6	7554.6	7740.7	8097.1	8555.7	8930.2	9096.0	8959.7	8673.7	8467.1	8428.5
22.5°	7173.3	7211.8	7429.7	7886.0	8512.5	9093.6	9391.0	9298.0	8930.2	8644.1	8592.0
25°	6791.9	6832.8	7087.0	7627.2	8401.3	9211.7	9740.6	9681.5	9220.8	8864.4	8791.7
27.5°	6462.7	6505.9	6782.7	7370.7	8228.8	9257.1	10085.6	10115.1	9572.6	9107.2	9030.0
30°	6203.9	6244.8	6539.9	7164.1	8006.3	9211.7	10387.6	10591.8	9931.2	9318.4	9207.2
32.5°	5920.2	5972.4	6283.4	6912.2	7743.0	9102.7	10650.9	11107.1	10346.7	9545.4	9404.6
35°	5561.5	5609.2	5936.1	6567.1	7397.9	8928.0	10871.0	11679.2	10941.5	9890.4	9733.8
37.5°	5125.7	5171.0	5495.6	6135.9	7055.2	8682.8	11039.0	12323.9	11649.6	10387.6	10178.7
40°	4687.5	4730.7	5034.9	5654.6	6644.3	8369.5	11098.1	12954.9	12462.4	11070.8	10848.4
42.5°	4285.7	4324.4	4603.6	5180.1	6183.5	7970.0	11020.9	13504.3	13191.0	11547.5	11261.5
45°	3915.8	3949.8	4197.3	4735.2	5704.5	7484.2	10789.4	14094.5	14058.2	11888.1	11502.1
47.5°	3493.5	3527.5	3784.1	4304.0	5225.6	6914.4	10396.6	14675.5	15263.5	12659.8	12214.9
50°	2978.2	3007.8	3271.1	3806.7	4728.4	6308.4	9851.8	15131.9	16784.4	13828.9	13270.5
52.5°	2367.6	2399.4	2655.9	3191.6	4138.2	5656.9	9134.5	15429.2	18541.4	15535.9	14848.0
55°	1761.6	1784.2	2006.6	2487.9	3407.3	4914.6	8235.6	15513.2	20534.4	17869.4	17009.2
57.5°	1278.0	1291.6	1434.7	1793.3	2583.3	3986.1	7143.7	15295.3	22906.6	20861.3	19778.5
60°	1035.1	1039.7	1082.8	1241.7	1795.6	2937.3	5824.9	14546.2	25480.8	24718.1	23353.8
62.5°	939.8	939.8	951.1	994.2	1214.4	1938.6	4229.0	12993.5	28241.1	29591.7	27764.4
65°	873.9	873.9	878.5	898.9	958.0	1234.9	2669.5	10464.7	30567.9	35300.8	32989.9
67.5°	815.0	817.2	815.0	821.7	855.8	912.6	1548.2	7227.7	31820.9	41216.5	38721.7
70°	753.7	758.2	746.8	746.8	774.1	776.3	969.3	3963.5	30781.3	46174.1	45518.1
72.5°	681.0	687.8	669.6	665.1	685.5	676.5	728.7	1902.3	26427.4	47654.2	49379.4
75°	617.5	626.5	585.7	574.3	574.3	567.5	592.4	976.1	17152.1	38873.8	41579.6
77.5°	560.7	578.8	513.0	476.7	467.6	447.2	483.5	597.0	7502.4	18250.8	17871.7
80°	463.1	488.0	422.2	379.0	363.2	340.5	381.4	417.7	2231.4	4238.1	4058.8
82.5°	345.0	356.4	299.6	270.1	256.6	240.7	286.0	290.6	726.4	1500.5	1695.7
85°	220.2	224.7	183.9	158.9	152.1	145.2	181.6	158.9	277.0	1103.2	1602.6
87.5°	77.2	88.6	70.4	63.6	68.1	56.8	83.9	47.7	77.2	778.6	964.7
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)