

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: P969247

Luminaire Tested: **NAV-SB5D-727-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969247  
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-SB5D-727-U-T1  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48346.2 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

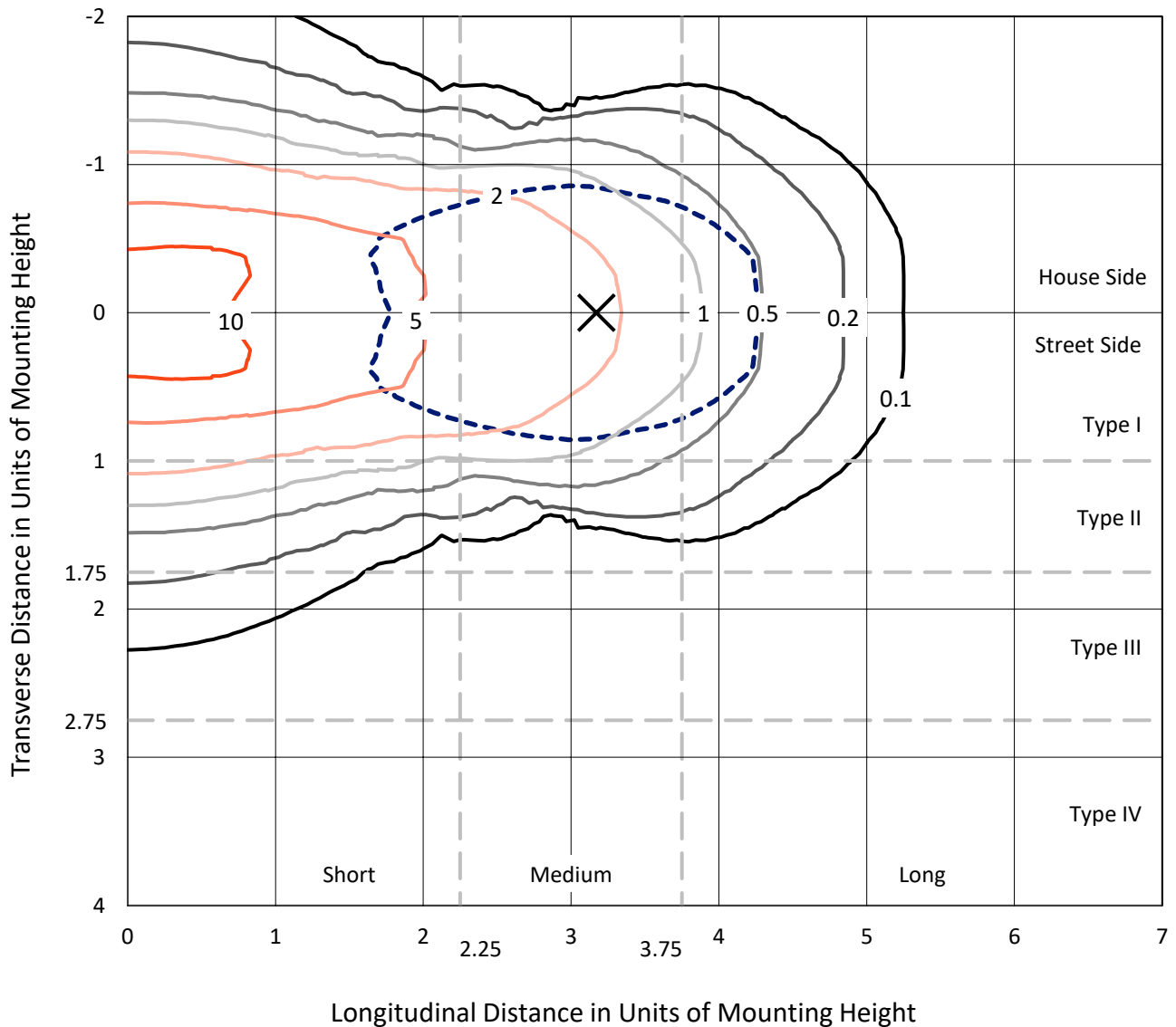
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

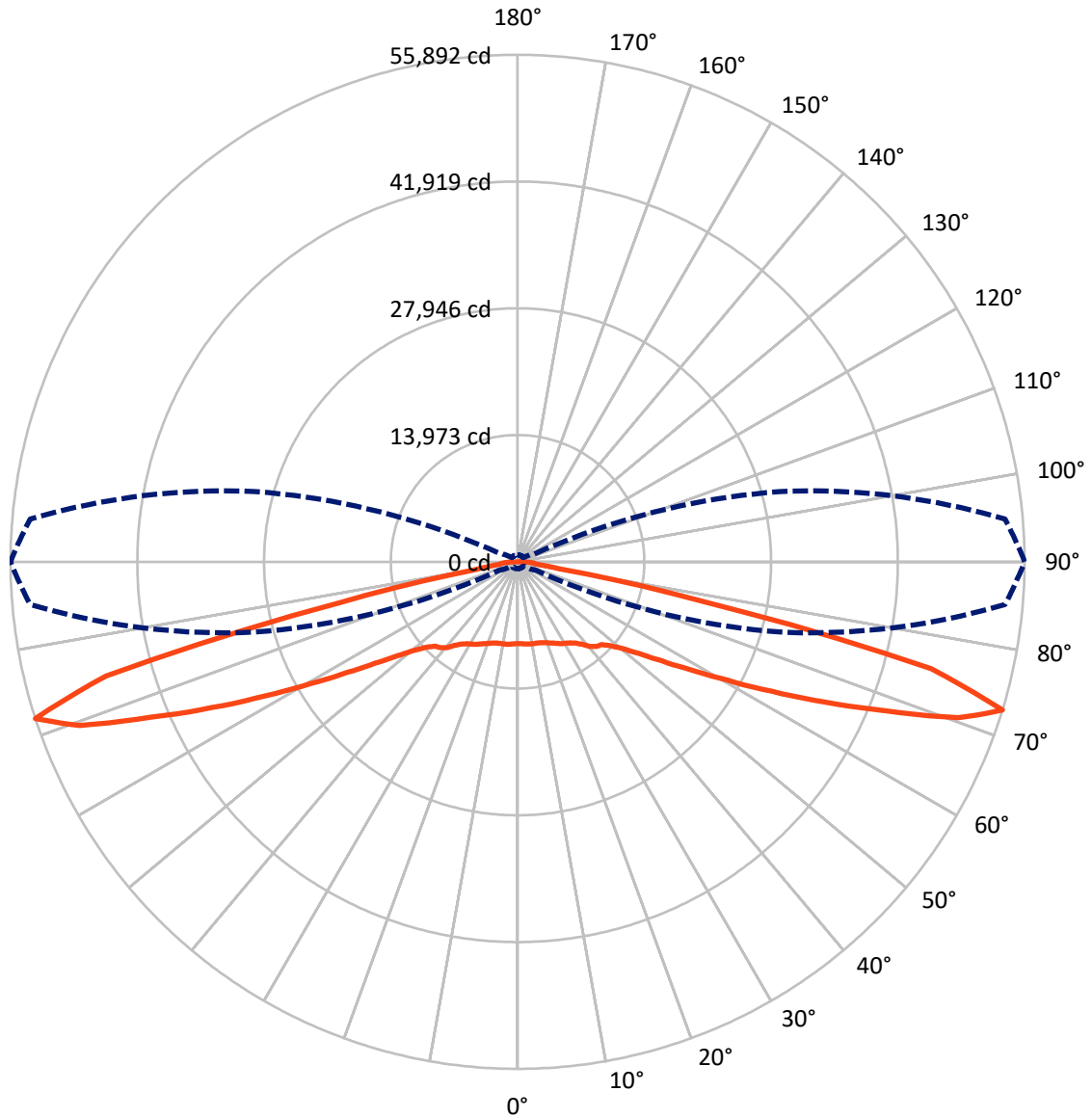
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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	24173.1	0.0	24173.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24173.1	0.0	24173.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	48346.2	0.0	48346.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	876.0	1.8
10°-20°	2678.3	5.5
20°-30°	4465.9	9.2
30°-40°	6141.9	12.7
40°-50°	7501.0	15.5
50°-60°	8675.7	17.9
60°-70°	10344.3	21.4
70°-80°	7219.7	14.9
80°-90°	443.4	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°	48346.2	100.0
0°-180°	48346.2	100.0

**Coefficient of Utilization**

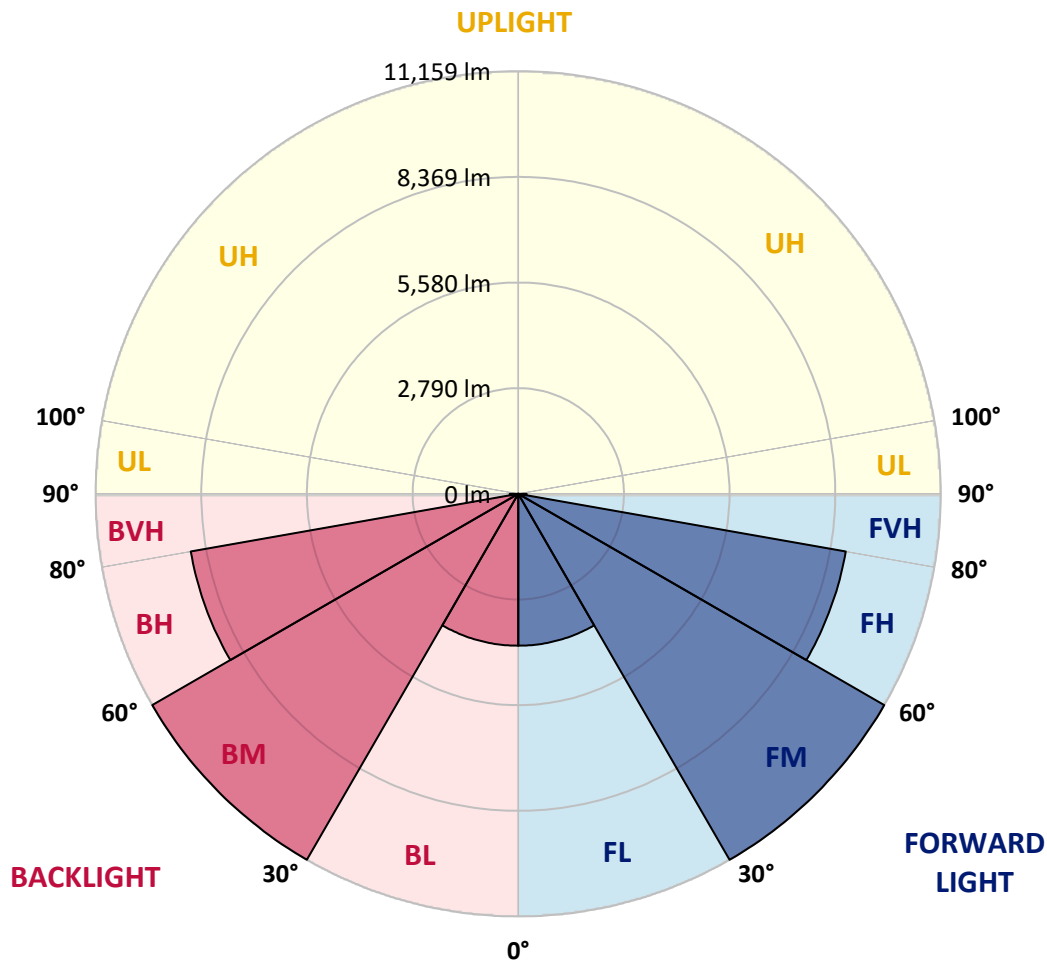


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4010.1	8.3			
FM (30°-60°)	11159.3	23.1			
FH (60°-80°)	8782.0	18.2			G4/12000
FVH (80°-90°)	221.7	0.5			G2/225
BL (0°-30°)	4010.1	8.3	B4/5000		
BM (30°-60°)	11159.3	23.1	B5		
BH (60°-80°)	8782.0	18.2	B5		G5
BVH (80°-90°)	221.7	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°	9034.0	9034.0	9034.0	9034.0	9034.0	9034.0	9034.0	9034.0	9034.0	9034.0	9034.0
2.5°	9041.7	9052.0	9052.0	9044.3	9062.2	9046.9	9046.9	9039.2	9046.9	9039.2	9039.2
5°	9088.0	9100.8	9105.9	9103.3	9126.5	9113.7	9113.7	9103.3	9105.9	9098.2	9098.2
7.5°	9175.3	9193.3	9203.6	9216.4	9249.8	9234.4	9224.1	9193.3	9180.4	9159.9	9159.9
10°	9203.6	9224.1	9257.5	9324.3	9401.4	9404.0	9373.1	9296.0	9237.0	9190.8	9183.0
12.5°	9116.2	9144.4	9213.8	9350.0	9522.1	9591.5	9542.8	9414.2	9298.6	9216.4	9203.6
15°	9005.8	9036.6	9141.9	9347.5	9601.8	9763.7	9758.5	9589.0	9404.0	9275.5	9254.9
17.5°	8833.6	8864.4	9016.0	9303.8	9663.5	9930.7	10002.7	9827.9	9568.5	9396.3	9368.0
20°	8522.7	8551.0	8761.6	9165.0	9684.1	10108.0	10295.6	10141.5	9817.7	9583.9	9540.2
22.5°	8119.3	8163.0	8409.6	8926.1	9635.2	10292.9	10629.6	10524.3	10108.0	9784.2	9725.2
25°	7687.6	7733.8	8021.6	8633.2	9509.3	10426.6	11025.3	10958.5	10436.9	10033.5	9951.3
27.5°	7315.1	7363.9	7677.4	8342.8	9314.1	10478.0	11415.8	11449.2	10835.2	10308.4	10221.1
30°	7022.2	7068.4	7402.4	8109.0	9062.2	10426.6	11757.6	11988.8	11241.1	10547.4	10421.5
32.5°	6700.9	6760.1	7112.1	7823.8	8764.2	10303.3	12055.6	12572.0	11711.3	10804.3	10645.0
35°	6295.0	6349.0	6719.0	7433.3	8373.6	10105.5	12304.8	13219.5	12384.5	11194.8	11017.5
37.5°	5801.7	5853.1	6220.5	6945.1	7985.7	9827.9	12495.0	13949.2	13186.1	11757.6	11521.2
40°	5305.8	5354.6	5698.9	6400.4	7520.6	9473.4	12561.8	14663.5	14105.9	12530.9	12279.1
42.5°	4851.0	4894.7	5210.7	5863.4	6999.0	9021.1	12474.5	15285.3	14930.8	13070.5	12746.8
45°	4432.2	4470.7	4750.8	5359.7	6456.9	8471.3	12212.4	15953.4	15912.3	13455.9	13019.1
47.5°	3954.3	3992.9	4283.2	4871.6	5914.8	7826.4	11767.8	16611.1	17276.6	14329.5	13825.9
50°	3371.0	3404.4	3702.5	4308.9	5352.0	7140.4	11151.2	17127.5	18998.1	15652.8	15020.7
52.5°	2679.9	2715.8	3006.2	3612.6	4684.0	6403.0	10339.3	17464.2	20986.8	17584.9	16806.4
55°	1993.8	2019.6	2271.3	2816.1	3856.7	5562.8	9321.8	17559.3	23242.8	20226.3	19252.5
57.5°	1446.6	1462.0	1623.9	2029.8	2924.0	4511.8	8085.9	17312.6	25927.8	23612.7	22387.1
60°	1171.7	1176.8	1225.6	1405.5	2032.4	3324.8	6593.1	16464.7	28841.4	27978.1	26433.9
62.5°	1063.7	1063.7	1076.6	1125.3	1374.6	2194.2	4786.8	14707.2	31965.9	33494.6	31426.3
65°	989.2	989.2	994.4	1017.5	1084.2	1397.8	3021.6	11844.9	34599.5	39956.7	37341.1
67.5°	922.4	925.0	922.4	930.1	968.6	1032.9	1752.3	8180.9	36017.8	46652.5	43828.7
70°	853.0	858.1	845.3	845.3	876.2	878.7	1097.2	4486.1	34841.0	52264.0	51521.5
72.5°	770.8	778.5	758.0	752.9	775.9	765.7	824.8	2153.1	29912.9	53939.3	55892.0
75°	698.8	709.2	662.9	650.1	650.1	642.4	670.7	1104.8	19414.3	44000.9	47063.6
77.5°	634.7	655.2	580.7	539.6	529.3	506.1	547.2	675.8	8491.8	20658.0	20228.9
80°	524.2	552.4	478.0	429.1	411.1	385.4	431.6	472.7	2525.7	4797.1	4594.0
82.5°	390.5	403.4	339.2	305.8	290.4	272.3	323.7	328.9	822.3	1698.3	1919.3
85°	249.3	254.4	208.1	179.9	172.2	164.4	205.5	179.9	313.4	1248.8	1813.9
87.5°	87.3	100.2	79.6	72.0	77.1	64.3	95.0	53.9	87.3	881.3	1092.0
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)