

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: P967124

Luminaire Tested: **NAV-SB4D-727-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967124  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB4D-727-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40631 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

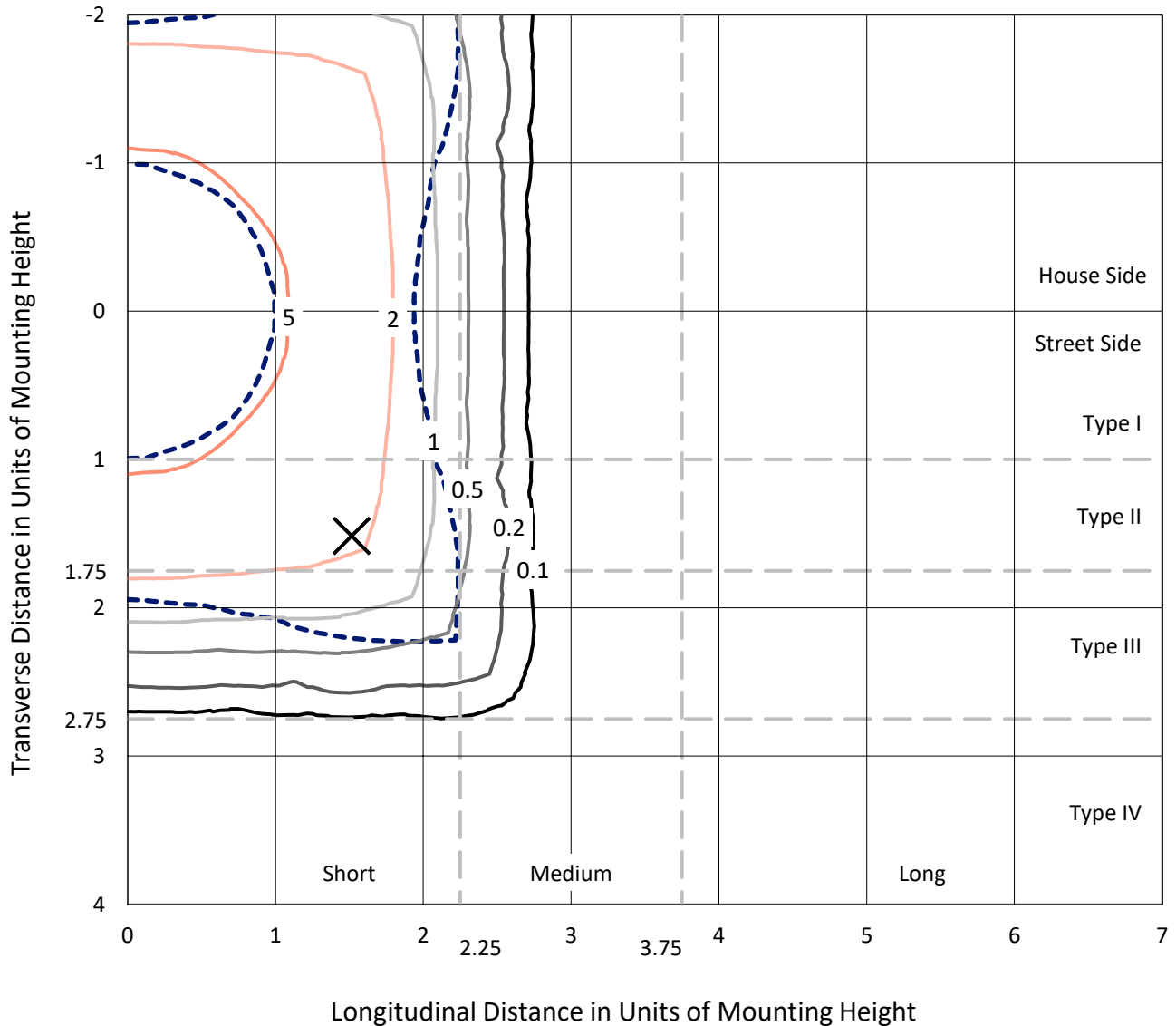
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

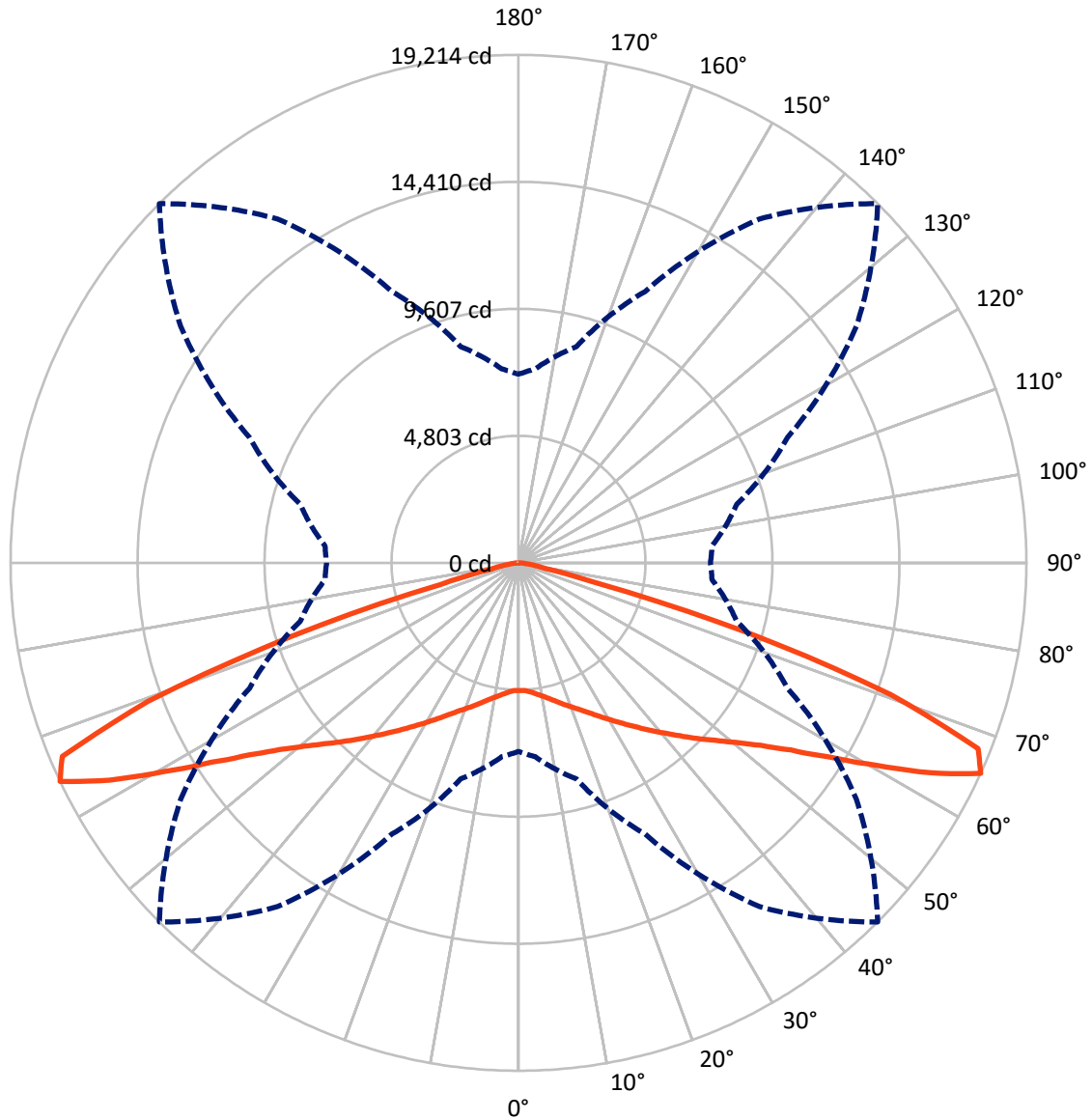
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20315.5	0.0	20315.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20315.5	0.0	20315.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40631.0	0.0	40631.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.2	1.2
10°-20°	1557.2	3.8
20°-30°	2940.2	7.2
30°-40°	4814.4	11.8
40°-50°	7464.8	18.4
50°-60°	11027.0	27.1
60°-70°	10496.7	25.8
70°-80°	1693.8	4.2
80°-90°	159.7	0.4
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°	40631.0	100.0
0°-180°	40631.0	100.0

**Coefficient of Utilization**



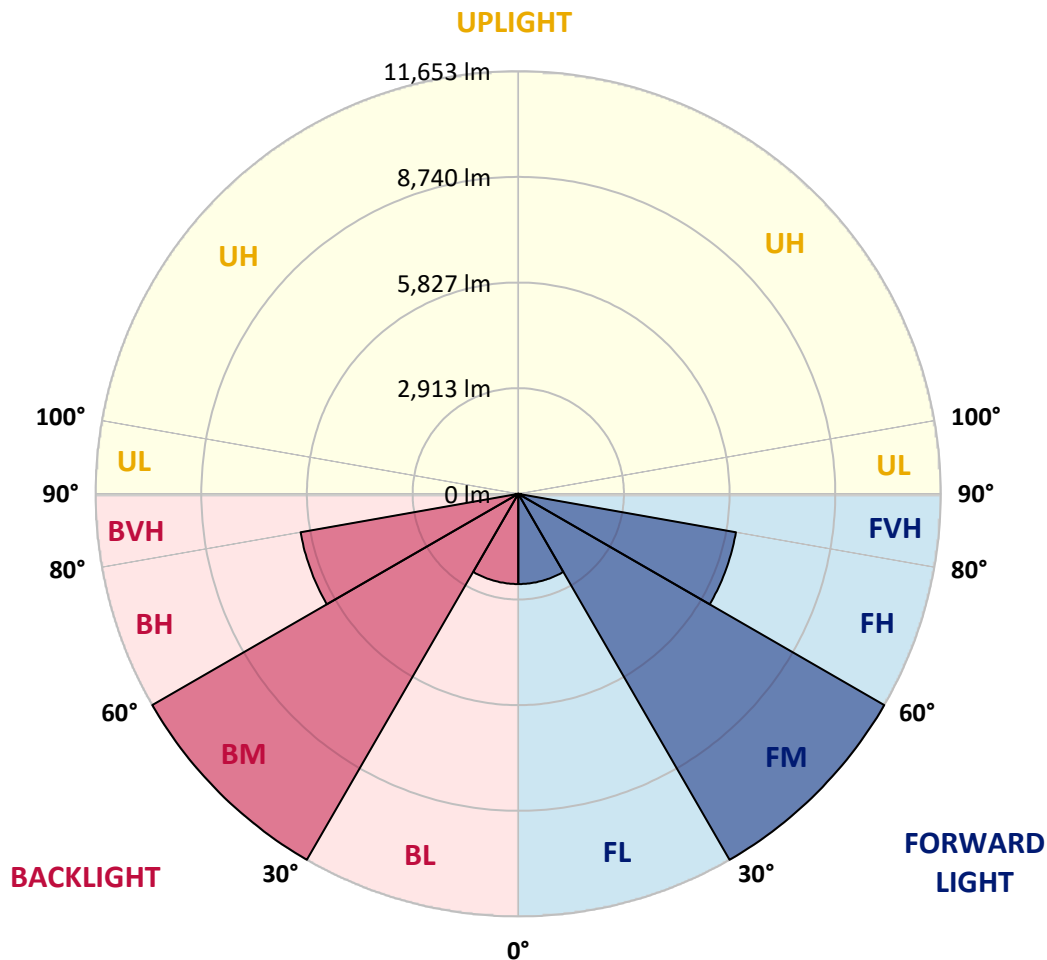
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2487.3	6.1			
FM (30°-60°)	11653.1	28.7			
FH (60°-80°)	6095.3	15.0			G3/7500
FVH (80°-90°)	79.8	0.2			G1/100
BL (0°-30°)	2487.3	6.1	B3/2500		
BM (30°-60°)	11653.1	28.7	B5		
BH (60°-80°)	6095.3	15.0	B5		G3/7500
BVH (80°-90°)	79.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5	4835.5
2.5°	4868.1	4851.8	4864.0	4853.9	4845.7	4837.5	4841.6	4855.8	4862.0	4864.0	4864.0
5°	4933.3	4919.1	4925.2	4925.2	4910.9	4906.9	4908.9	4919.1	4931.3	4931.3	4931.3
7.5°	5039.3	5025.1	5039.3	5031.2	5019.0	5014.9	5012.9	5021.0	5039.3	5039.3	5033.3
10°	5167.7	5151.4	5159.6	5155.5	5141.3	5135.1	5133.1	5145.4	5161.7	5159.6	5155.5
12.5°	5308.5	5290.1	5300.3	5288.1	5284.0	5277.8	5277.8	5275.8	5286.0	5277.8	5281.9
15°	5465.4	5453.2	5457.3	5449.1	5455.3	5451.2	5434.9	5426.7	5430.8	5418.6	5420.6
17.5°	5650.9	5622.4	5636.7	5632.6	5632.6	5640.8	5614.2	5604.1	5612.2	5600.0	5610.1
20°	5864.9	5836.5	5842.5	5834.4	5824.2	5832.4	5799.8	5807.9	5814.0	5805.8	5824.2
22.5°	6099.4	6062.7	6060.7	6064.7	6042.4	6044.3	6022.0	6042.4	6054.6	6032.1	6054.6
25°	6339.9	6301.2	6327.7	6317.6	6289.0	6295.1	6278.8	6299.2	6309.4	6280.9	6313.5
27.5°	6594.7	6568.3	6592.7	6598.8	6564.2	6588.7	6564.2	6582.6	6592.7	6550.0	6582.6
30°	6892.4	6866.0	6888.3	6904.6	6863.9	6902.7	6882.3	6894.5	6896.5	6845.6	6876.1
32.5°	7216.5	7175.8	7232.8	7241.0	7196.1	7243.1	7216.5	7232.8	7243.1	7173.8	7220.6
35°	7612.1	7561.1	7626.3	7616.2	7577.4	7616.2	7591.7	7616.2	7640.6	7557.0	7608.0
37.5°	8038.0	7985.1	8054.4	8036.1	7999.4	8025.9	8011.6	8027.9	8066.6	7977.0	8032.0
40°	8507.0	8441.7	8535.5	8502.9	8468.2	8464.1	8472.3	8482.5	8533.4	8433.6	8466.2
42.5°	9008.4	8939.1	9079.8	9028.8	8979.9	8947.3	8973.8	8994.2	9043.1	8931.0	8990.1
45°	9581.3	9501.8	9685.2	9624.1	9546.6	9479.4	9522.1	9552.8	9624.1	9489.6	9558.8
47.5°	10213.2	10123.5	10319.3	10300.9	10174.6	10027.8	10125.6	10213.2	10266.3	10103.1	10158.2
50°	10831.0	10761.6	11018.4	11040.9	10886.0	10680.1	10816.6	10949.2	10963.4	10749.4	10775.9
52.5°	11409.9	11340.6	11713.6	11854.3	11715.6	11471.1	11615.8	11750.3	11642.3	11365.0	11373.2
55°	11872.7	11815.6	12290.6	12653.4	12700.3	12498.5	12584.1	12580.0	12225.3	11799.3	11813.5
57.5°	11984.8	11976.6	12575.9	13344.5	13833.7	13858.2	13689.0	13256.8	12492.4	11919.5	11882.8
60°	11475.1	11526.1	12349.7	13705.4	15010.0	15552.3	14820.5	13587.1	12188.6	11393.6	11299.8
62.5°	9950.3	10084.8	11077.6	13265.0	15960.0	17501.2	15727.6	13085.6	10941.1	9903.3	9842.3
65°	7130.9	7365.3	8462.1	11320.2	15874.4	19213.5	15597.1	11228.5	8543.7	7347.0	7259.4
67.5°	3235.2	3473.7	4405.3	7750.6	13799.1	18748.8	13766.5	7832.2	4625.5	3485.9	3435.0
70°	1172.2	1213.0	1512.6	3102.7	8818.9	14938.7	9196.0	3125.1	1608.4	1292.4	1276.1
72.5°	709.4	715.6	778.7	1111.0	3063.9	9069.6	3194.4	1147.7	795.1	705.3	717.6
75°	450.5	446.5	554.5	678.9	1086.6	3059.9	1139.6	678.9	552.5	503.5	507.6
77.5°	324.1	334.4	397.5	507.6	685.0	1037.6	672.7	485.1	397.5	326.2	332.3
80°	242.6	248.7	289.5	395.4	481.1	646.3	428.1	358.7	299.7	203.9	210.0
82.5°	175.3	175.3	189.6	287.4	293.6	348.6	232.4	252.8	197.7	144.7	144.7
85°	103.9	101.9	118.3	171.3	152.9	128.4	106.0	155.0	124.3	89.7	87.6
87.5°	36.7	38.7	36.7	48.9	40.8	34.6	32.6	42.8	34.6	30.5	28.5
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)