

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: P969759

Luminaire Tested: **NAV-SB6A-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969759
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-SB6A-727-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27100 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

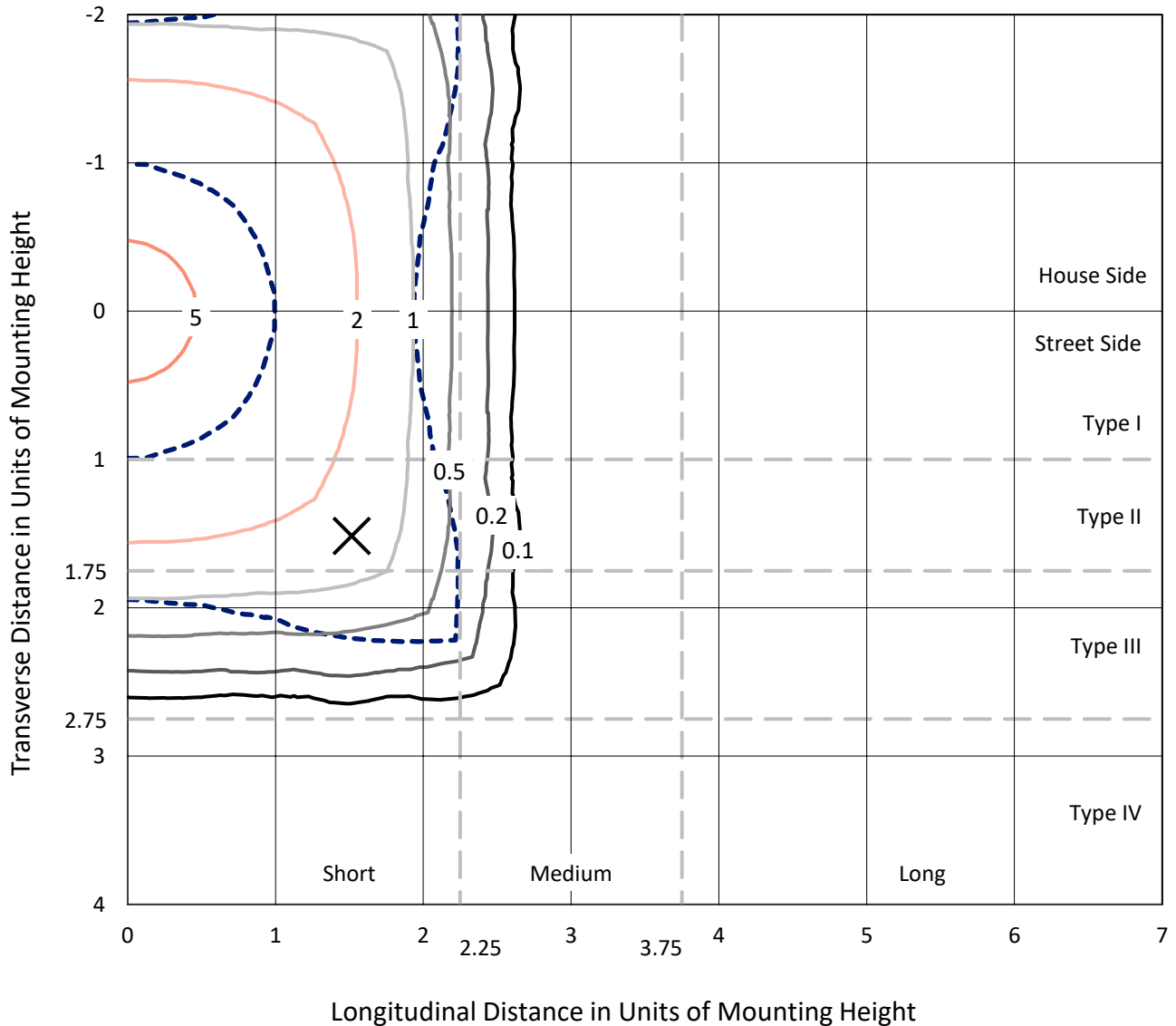
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

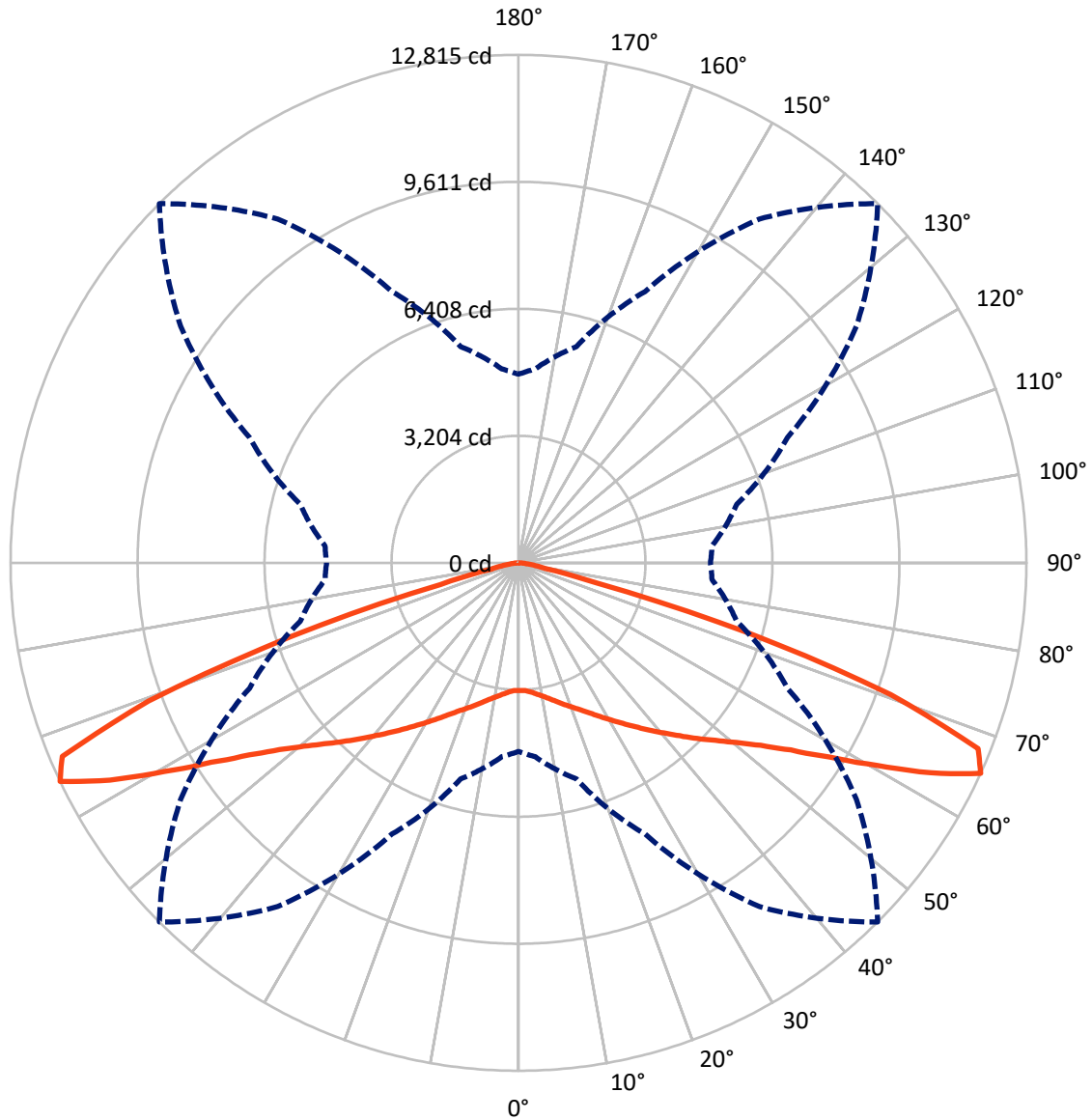
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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
House Side	Lumens	13550.0	0.0	13550.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13550.0	0.0	13550.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27100.0	0.0	27100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.3	1.2
10°-20°	1038.6	3.8
20°-30°	1961.0	7.2
30°-40°	3211.1	11.8
40°-50°	4978.8	18.4
50°-60°	7354.8	27.1
60°-70°	7001.1	25.8
70°-80°	1129.7	4.2
80°-90°	106.5	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°	27100.0	100.0
0°-180°	27100.0	100.0

Coefficient of Utilization



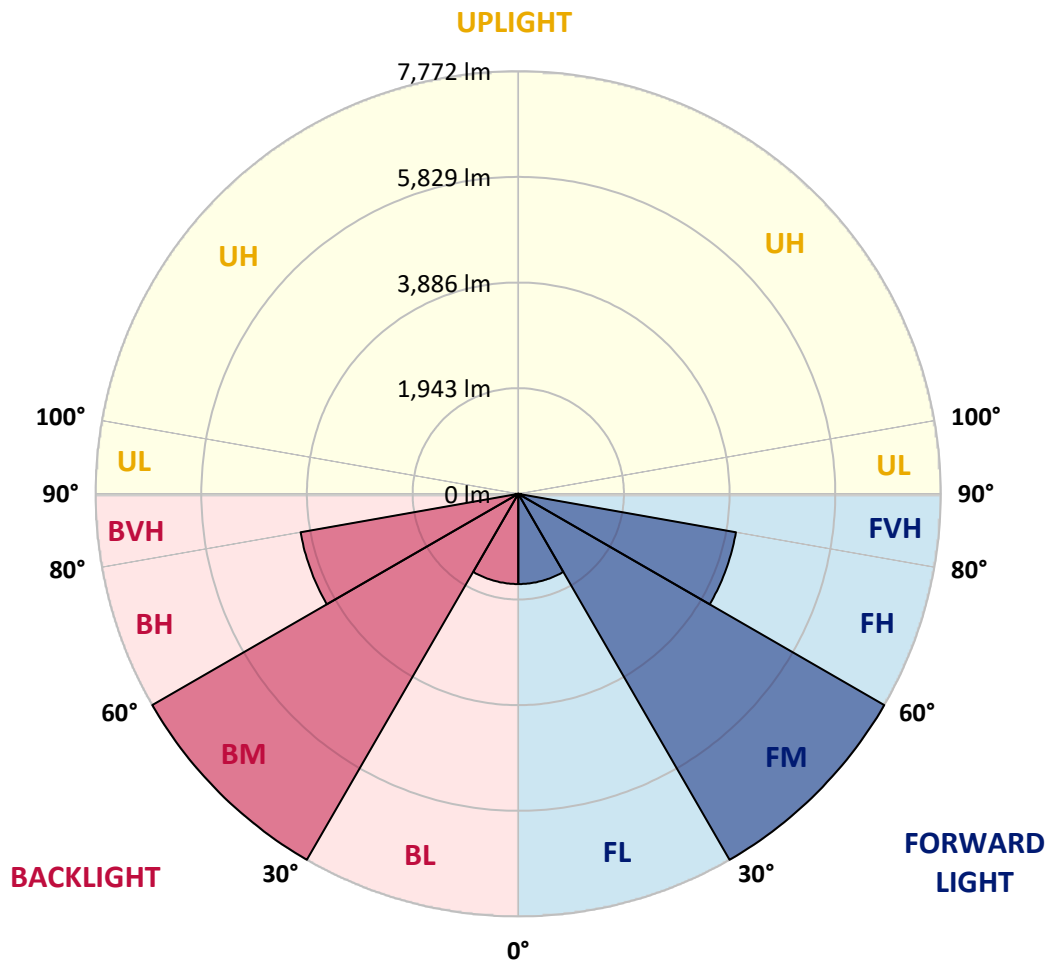
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.0	6.1			
FM (30°-60°)	7772.4	28.7			
FH (60°-80°)	4065.4	15.0			G2/5000
FVH (80°-90°)	53.2	0.2			G1/100
BL (0°-30°)	1659.0	6.1	B3/2500		
BM (30°-60°)	7772.4	28.7	B4/8500		
BH (60°-80°)	4065.4	15.0	B4/5000		G2/5000
BVH (80°-90°)	53.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2
2.5°	3246.9	3236.0	3244.2	3237.4	3231.9	3226.5	3229.3	3238.8	3242.9	3244.2	3244.2
5°	3290.5	3280.9	3285.0	3285.0	3275.5	3272.7	3274.2	3280.9	3289.1	3289.1	3289.1
7.5°	3361.2	3351.6	3361.2	3355.7	3347.5	3344.8	3343.4	3348.9	3361.2	3361.2	3357.1
10°	3446.8	3435.9	3441.3	3438.7	3429.1	3425.0	3423.7	3431.8	3442.7	3441.3	3438.7
12.5°	3540.7	3528.4	3535.2	3527.0	3524.3	3520.3	3520.3	3518.8	3525.7	3520.3	3522.9
15°	3645.3	3637.1	3639.9	3634.4	3638.5	3635.8	3624.9	3619.5	3622.1	3614.0	3615.4
17.5°	3769.0	3750.0	3759.5	3756.8	3756.8	3762.3	3744.5	3737.8	3743.2	3735.1	3741.9
20°	3911.8	3892.7	3896.8	3891.4	3884.6	3890.1	3868.2	3873.8	3877.8	3872.3	3884.6
22.5°	4068.1	4043.7	4042.3	4045.1	4030.1	4031.4	4016.5	4030.1	4038.3	4023.3	4038.3
25°	4228.6	4202.8	4220.4	4213.7	4194.6	4198.7	4187.8	4201.4	4208.2	4189.2	4210.9
27.5°	4398.6	4380.8	4397.2	4401.2	4378.2	4394.5	4378.2	4390.4	4397.2	4368.7	4390.4
30°	4597.1	4579.4	4594.4	4605.2	4578.1	4603.9	4590.3	4598.5	4599.8	4565.9	4586.3
32.5°	4813.3	4786.1	4824.2	4829.6	4799.7	4830.9	4813.3	4824.2	4830.9	4784.7	4816.0
35°	5077.0	5043.1	5086.6	5079.8	5054.0	5079.8	5063.5	5079.8	5096.1	5040.3	5074.4
37.5°	5361.3	5325.9	5372.1	5359.8	5335.4	5353.1	5343.5	5354.4	5380.2	5320.5	5357.2
40°	5674.0	5630.4	5693.0	5671.2	5648.2	5645.4	5650.8	5657.6	5691.6	5625.0	5646.7
42.5°	6008.4	5962.2	6056.0	6022.1	5989.4	5967.7	5985.3	5998.9	6031.5	5956.8	5996.2
45°	6390.5	6337.5	6459.9	6419.1	6367.4	6322.5	6351.1	6371.5	6419.1	6329.4	6375.6
47.5°	6812.0	6752.2	6882.7	6870.5	6786.2	6688.3	6753.5	6812.0	6847.4	6738.6	6775.2
50°	7224.0	7177.8	7349.0	7364.0	7260.7	7123.3	7214.5	7302.8	7312.4	7169.6	7187.3
52.5°	7610.1	7563.9	7812.8	7906.5	7814.1	7650.9	7747.5	7837.3	7765.2	7580.2	7585.7
55°	7918.8	7880.7	8197.5	8439.5	8470.8	8336.2	8393.3	8390.6	8154.0	7869.8	7879.4
57.5°	7993.6	7988.1	8387.9	8900.5	9226.8	9243.1	9130.3	8842.1	8332.1	7950.1	7925.6
60°	7653.7	7687.6	8237.0	9141.2	10011.4	10373.0	9884.9	9062.3	8129.6	7599.2	7536.7
62.5°	6636.6	6726.4	7388.5	8847.5	10644.9	11672.9	10490.0	8727.8	7297.4	6605.3	6564.5
65°	4756.2	4912.5	5644.1	7550.4	10587.8	12815.1	10402.9	7489.2	5698.4	4900.3	4841.8
67.5°	2157.8	2316.9	2938.3	5169.5	9203.7	12505.0	9181.9	5223.9	3085.1	2325.0	2291.1
70°	781.8	809.0	1008.9	2069.5	5882.0	9963.7	6133.5	2084.4	1072.8	862.0	851.2
72.5°	473.1	477.2	519.4	741.1	2043.6	6049.2	2130.7	765.5	530.2	470.5	478.6
75°	300.5	297.8	369.8	452.7	724.7	2040.9	760.0	452.7	368.5	335.9	338.6
77.5°	216.2	222.9	265.2	338.6	456.8	692.1	448.7	323.6	265.2	217.5	221.6
80°	161.8	165.8	193.1	263.7	320.9	431.0	285.6	239.3	199.9	136.0	140.0
82.5°	117.0	117.0	126.5	191.7	195.8	232.5	155.0	168.6	131.9	96.6	96.6
85°	69.4	68.0	78.8	114.2	102.0	85.7	70.7	103.3	82.9	59.9	58.4
87.5°	24.5	25.8	24.5	32.6	27.2	23.2	21.7	28.6	23.2	20.4	19.1
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)