

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: P968705

Luminaire Tested: **NAV-SB5C-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968705
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-SB5C-727-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37689.3 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

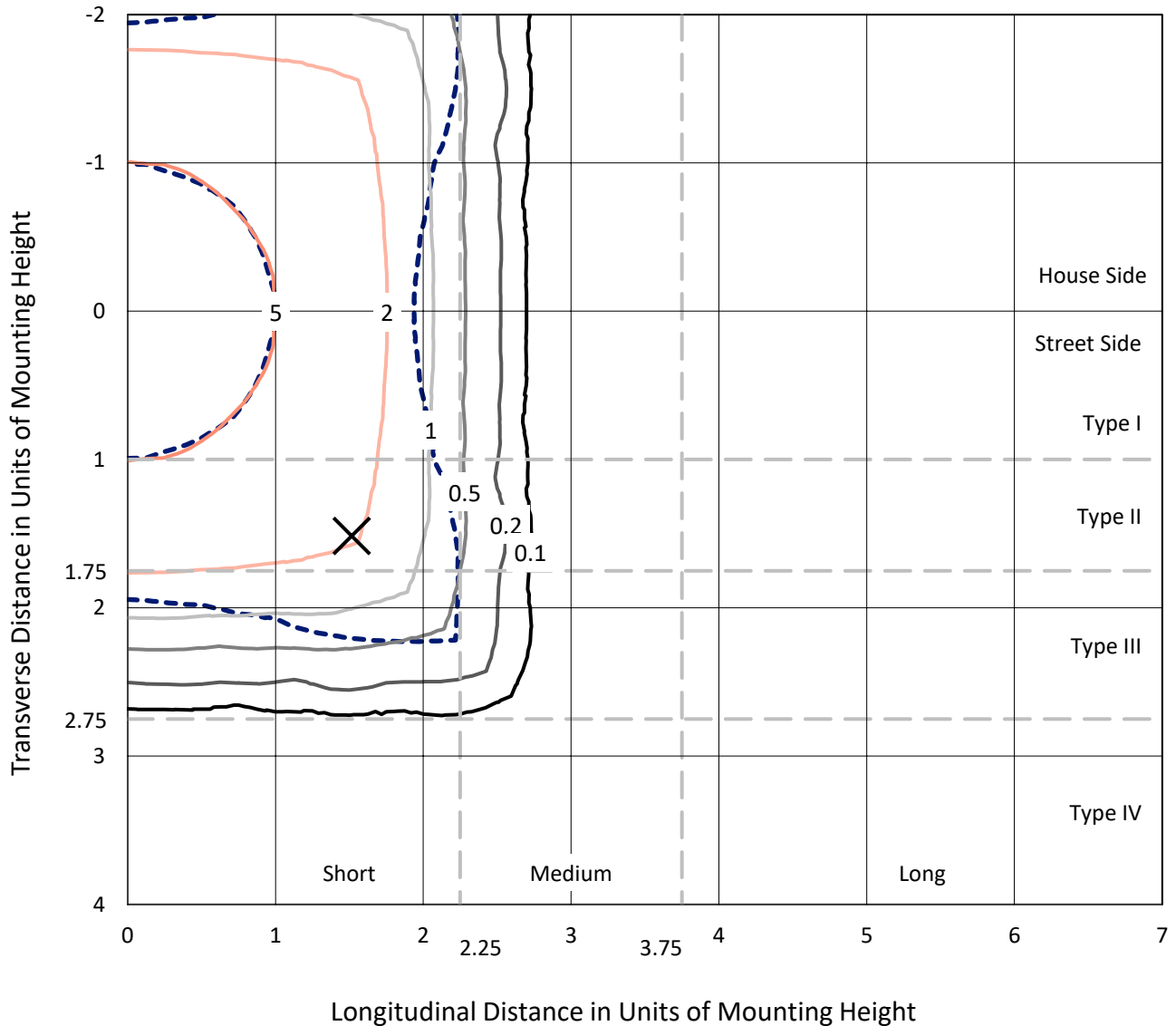
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

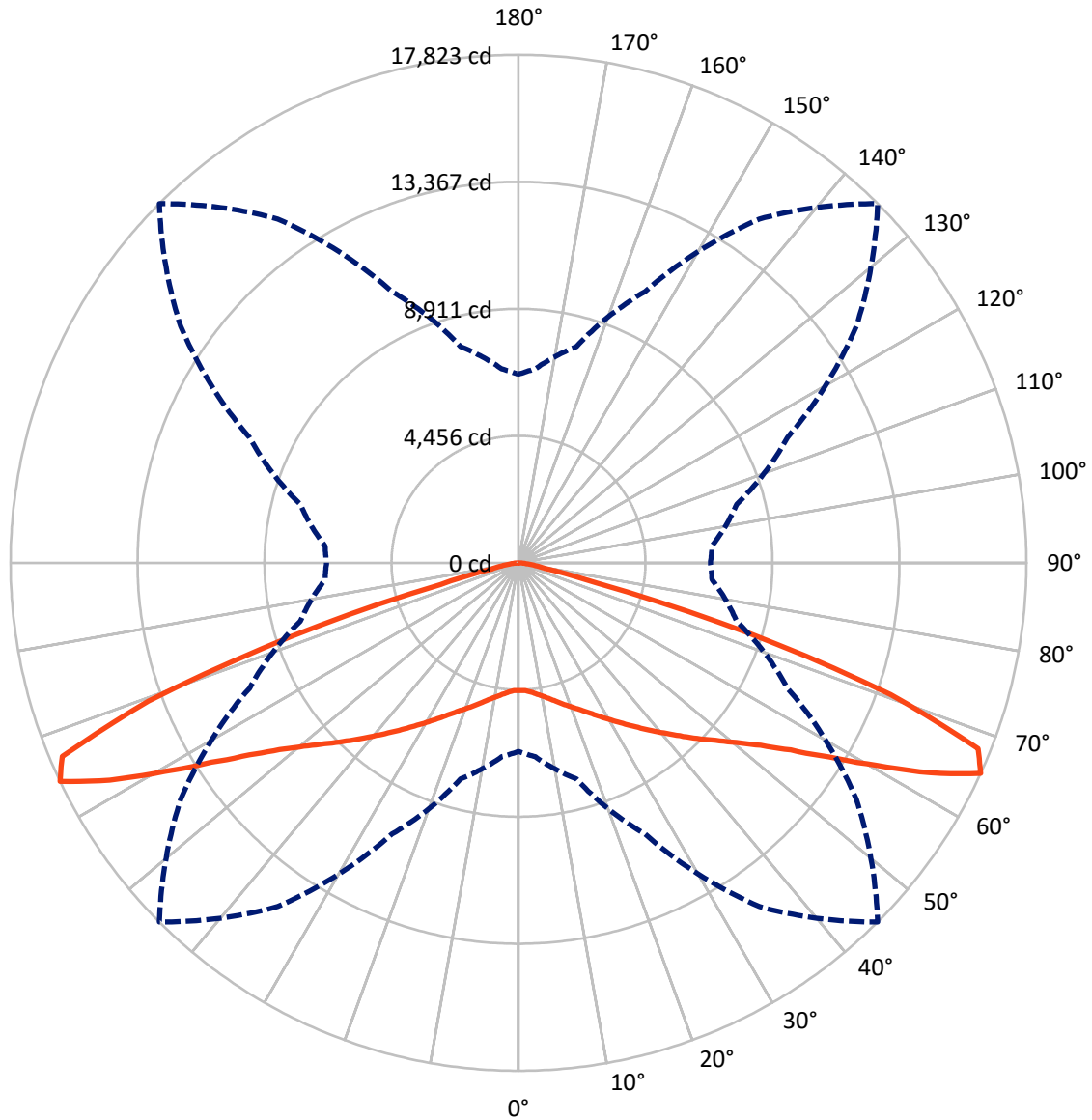
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	18844.6	0.0	18844.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18844.6	0.0	18844.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	37689.3	0.0	37689.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.7	1.2
10°-20°	1444.4	3.8
20°-30°	2727.3	7.2
30°-40°	4465.8	11.8
40°-50°	6924.3	18.4
50°-60°	10228.7	27.1
60°-70°	9736.8	25.8
70°-80°	1571.2	4.2
80°-90°	148.1	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°	37689.3	100.0
0°-180°	37689.3	100.0

Coefficient of Utilization



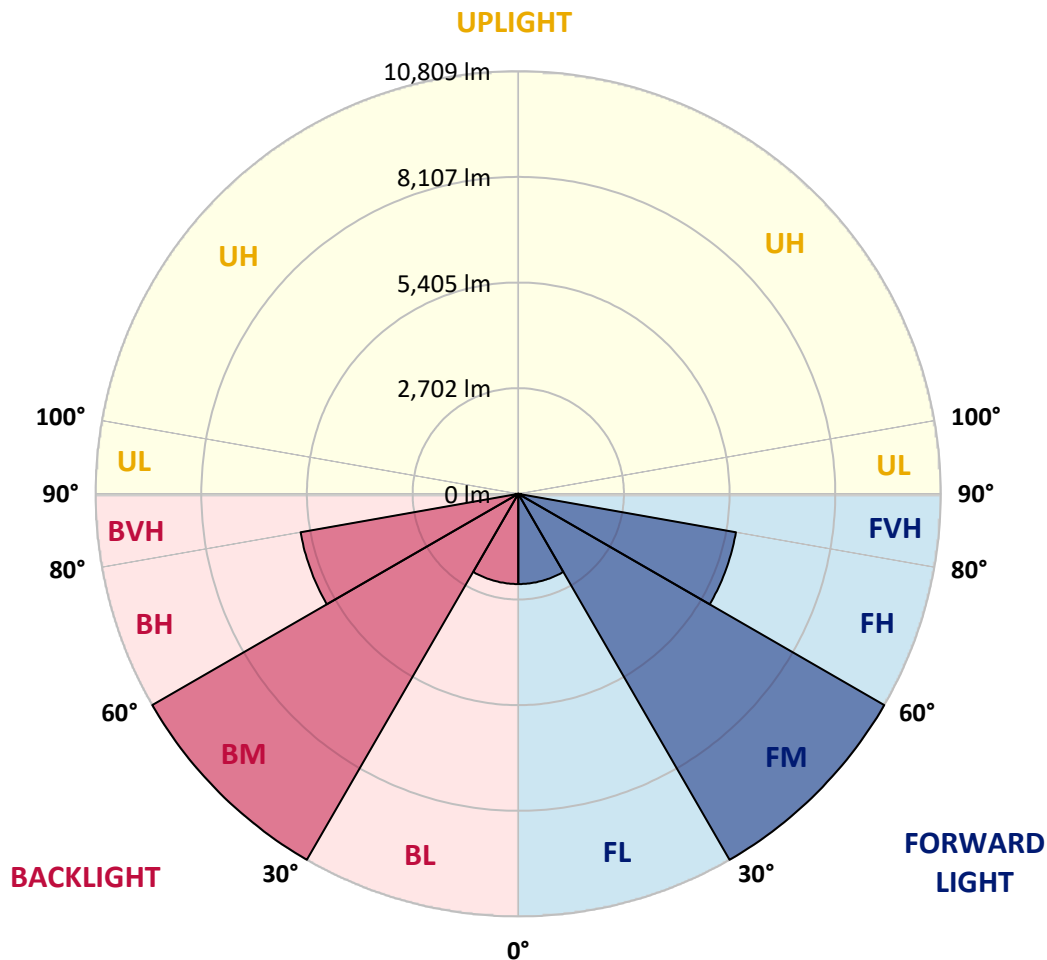
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2307.2	6.1			
FM (30°-60°)	10809.4	28.7			
FH (60°-80°)	5654.0	15.0			G3/7500
FVH (80°-90°)	74.1	0.2			G1/100
BL (0°-30°)	2307.2	6.1	B3/2500		
BM (30°-60°)	10809.4	28.7	B5		
BH (60°-80°)	5654.0	15.0	B5		G3/7500
BVH (80°-90°)	74.1	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°	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4
2.5°	4515.6	4500.6	4511.8	4502.4	4494.8	4487.2	4491.0	4504.3	4510.0	4511.8	4511.8
5°	4576.2	4562.9	4568.6	4568.6	4555.4	4551.6	4553.5	4562.9	4574.3	4574.3	4574.3
7.5°	4674.5	4661.3	4674.5	4666.9	4655.5	4651.8	4649.9	4657.5	4674.5	4674.5	4668.8
10°	4793.6	4778.5	4786.0	4782.2	4769.0	4763.4	4761.4	4772.8	4788.0	4786.0	4782.2
12.5°	4924.1	4907.1	4916.5	4905.2	4901.4	4895.7	4895.7	4893.9	4903.3	4895.7	4899.5
15°	5069.8	5058.4	5062.2	5054.6	5060.2	5056.4	5041.4	5033.8	5037.6	5026.2	5028.1
17.5°	5241.7	5215.3	5228.5	5224.7	5224.7	5232.3	5207.7	5198.3	5205.9	5194.5	5203.9
20°	5440.3	5413.8	5419.6	5412.0	5402.6	5410.1	5379.8	5387.4	5393.0	5385.5	5402.6
22.5°	5657.8	5623.8	5621.9	5625.6	5604.9	5606.7	5585.9	5604.9	5616.2	5595.4	5616.2
25°	5880.9	5845.0	5869.6	5860.1	5833.7	5839.3	5824.3	5843.1	5852.5	5826.1	5856.3
27.5°	6117.3	6092.7	6115.5	6121.1	6088.9	6111.7	6088.9	6105.9	6115.5	6075.7	6105.9
30°	6393.4	6368.8	6389.6	6404.7	6366.9	6402.9	6383.9	6395.3	6397.1	6349.9	6378.3
32.5°	6694.1	6656.2	6709.1	6716.7	6675.1	6718.7	6694.1	6709.1	6718.7	6654.3	6697.9
35°	7060.9	7013.7	7074.1	7064.7	7028.7	7064.7	7042.0	7064.7	7087.4	7009.9	7057.1
37.5°	7456.2	7407.0	7471.2	7454.2	7420.2	7444.8	7431.6	7446.6	7482.6	7399.4	7450.4
40°	7891.1	7830.5	7917.5	7887.3	7855.1	7851.3	7858.9	7868.3	7915.7	7823.0	7853.2
42.5°	8356.2	8291.9	8422.4	8375.2	8329.8	8299.5	8324.1	8343.0	8388.4	8284.4	8339.2
45°	8887.6	8813.9	8984.0	8927.3	8855.5	8793.1	8832.7	8861.1	8927.3	8802.5	8866.8
47.5°	9473.8	9390.6	9572.2	9555.2	9437.9	9301.7	9392.5	9473.8	9523.0	9371.7	9422.7
50°	10046.7	9982.5	10220.7	10241.5	10097.8	9906.8	10033.5	10156.4	10169.6	9971.1	9995.7
52.5°	10583.8	10519.5	10865.5	10996.0	10867.5	10640.5	10774.8	10899.5	10799.4	10542.2	10549.8
55°	11013.0	10960.1	11400.7	11737.3	11780.8	11593.6	11673.0	11669.2	11340.2	10944.9	10958.2
57.5°	11117.0	11109.5	11665.4	12378.3	12832.2	12854.8	12697.9	12297.0	11587.9	11056.6	11022.5
60°	10644.3	10691.6	11455.5	12713.1	13923.3	14426.3	13747.4	12603.4	11306.2	10568.7	10481.6
62.5°	9229.8	9354.7	10275.5	12304.6	14804.5	16234.1	14588.9	12138.2	10148.8	9186.4	9129.7
65°	6614.6	6832.1	7849.4	10500.6	14725.0	17822.5	14467.9	10415.5	7925.1	6815.1	6733.7
67.5°	3001.0	3222.2	4086.4	7189.5	12800.0	17391.3	12769.8	7265.1	4290.6	3233.6	3186.3
70°	1087.3	1125.1	1403.1	2878.1	8180.3	13857.1	8530.2	2898.9	1492.0	1198.8	1183.8
72.5°	658.0	663.7	722.3	1030.5	2842.1	8413.0	2963.2	1064.7	737.5	654.3	665.6
75°	417.9	414.1	514.3	629.7	1007.9	2838.3	1057.1	629.7	512.5	467.1	470.9
77.5°	300.6	310.2	368.7	470.9	635.4	962.5	624.0	450.1	368.7	302.6	308.2
80°	225.0	230.7	268.5	366.8	446.3	599.4	397.1	332.8	278.0	189.1	194.7
82.5°	162.7	162.7	175.9	266.6	272.3	323.4	215.6	234.5	183.5	134.3	134.3
85°	96.5	94.5	109.7	158.9	141.9	119.1	98.3	143.7	115.3	83.2	81.3
87.5°	34.0	36.0	34.0	45.4	37.8	32.2	30.2	39.7	32.2	28.4	26.4
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)