

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: P967310

Luminaire Tested: **NAV-SB4D-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967310
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-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 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: 38091 lumens
Efficiency: N/A
Efficacy: 129.7 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



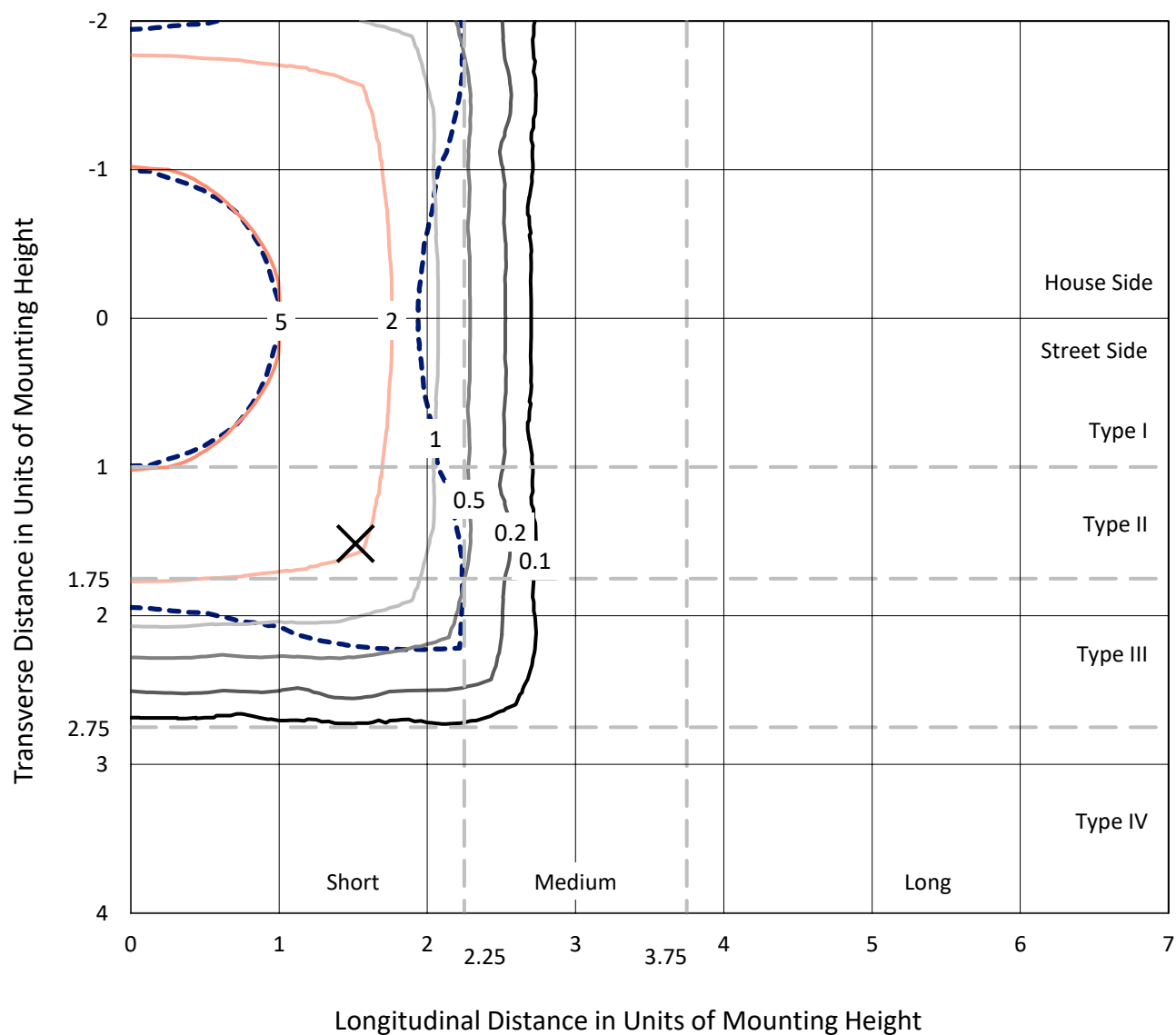
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

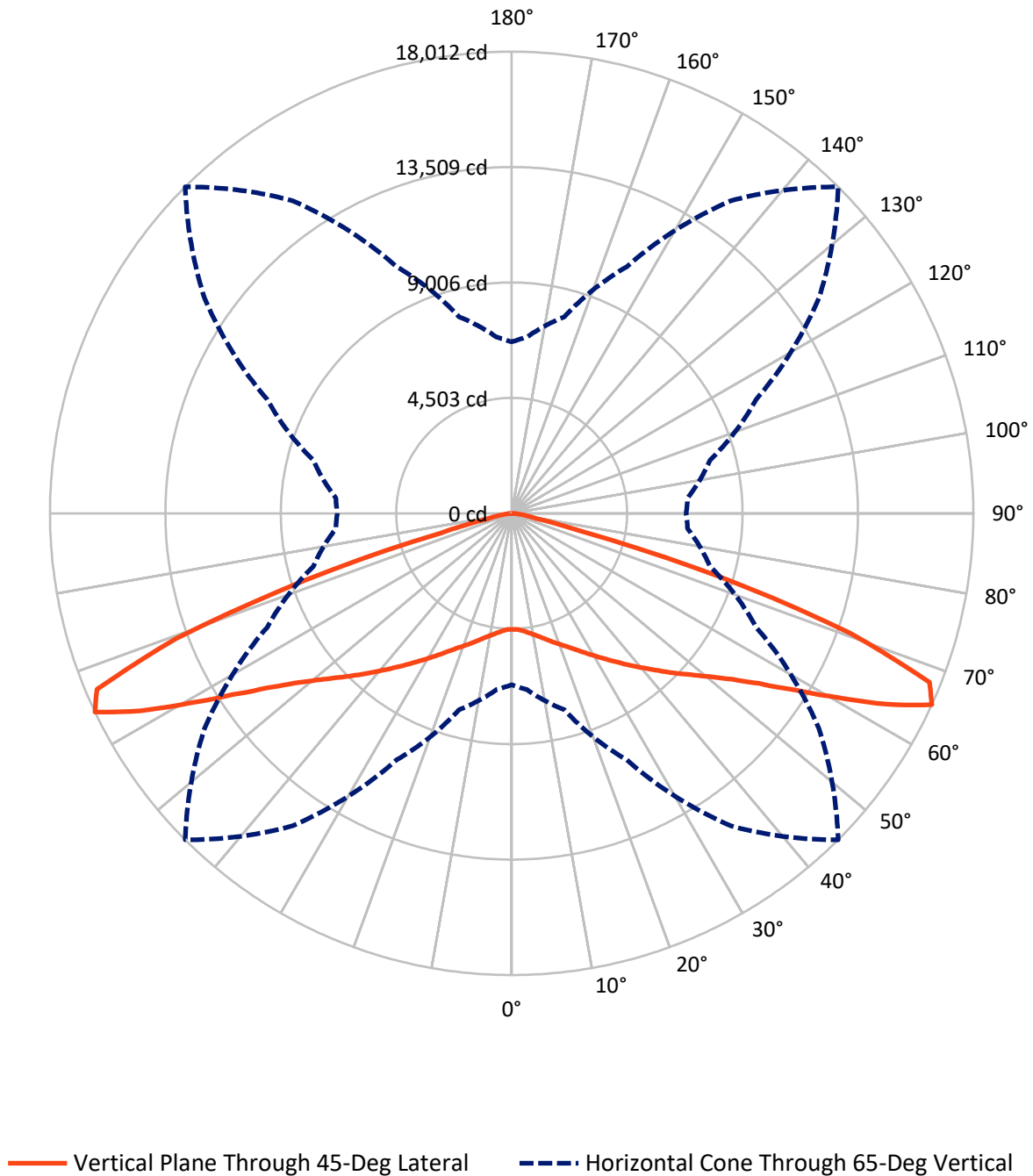


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19045.5	0.0	19045.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19045.5	0.0	19045.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38091.0	0.0	38091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.4	1.2
10°-20°	1459.9	3.8
20°-30°	2756.4	7.2
30°-40°	4513.4	11.8
40°-50°	6998.1	18.4
50°-60°	10337.7	27.1
60°-70°	9840.5	25.8
70°-80°	1587.9	4.2
80°-90°	149.7	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°	38091.0	100.0
0°-180°	38091.0	100.0

Coefficient of Utilization



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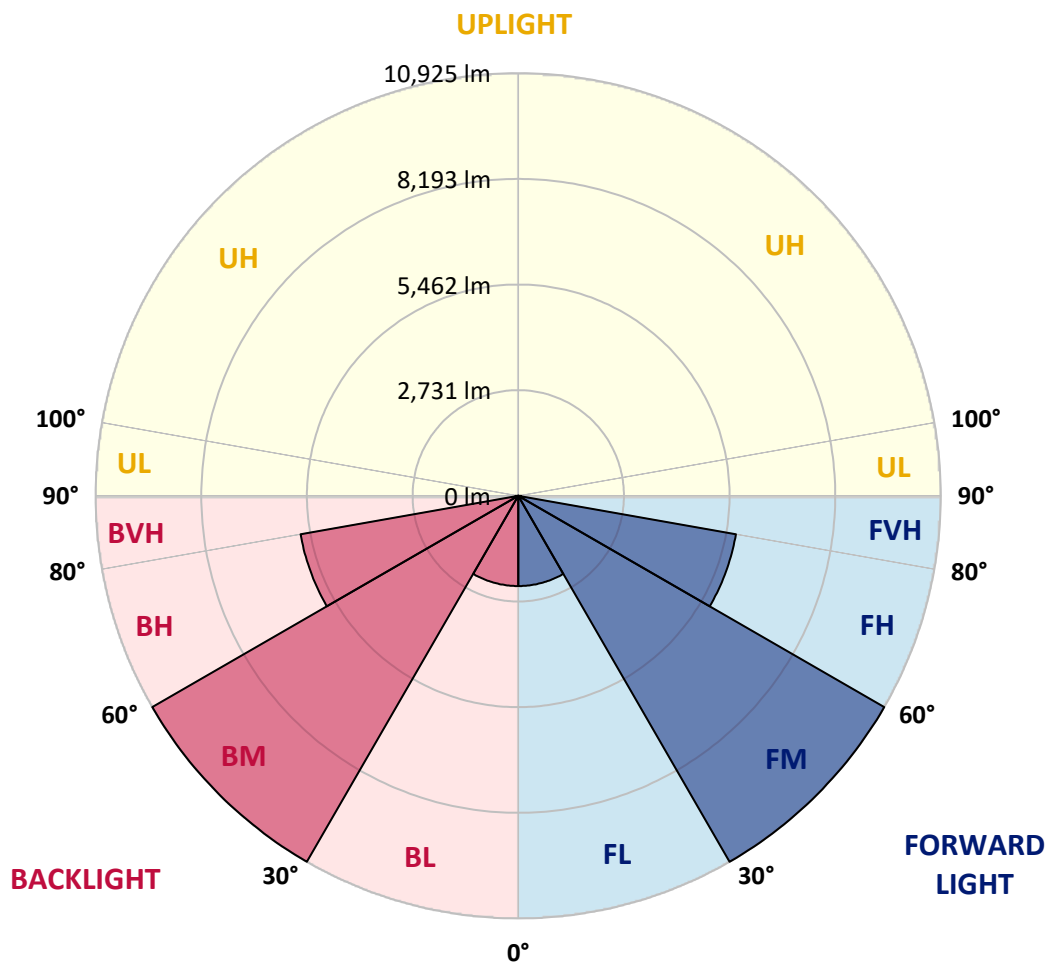
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2331.8	6.1			
FM	(30°-60°)	10924.7	28.7			
FH	(60°-80°)	5714.2	15.0			G3/7500
FVH	(80°-90°)	74.8	0.2			G1/100
BL	(0°-30°)	2331.8	6.1	B3/2500		
BM	(30°-60°)	10924.7	28.7	B5		
BH	(60°-80°)	5714.2	15.0	B5		G3/7500
BVH	(80°-90°)	74.8	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°	4533.2	4533.2	4533.2	4533.2	4533.2	4533.2	4533.2	4533.2	4533.2	4533.2	4533.2
2.5°	4563.8	4548.5	4560.0	4550.4	4542.8	4535.1	4538.9	4552.3	4558.1	4560.0	4560.0
5°	4624.9	4611.6	4617.3	4617.3	4603.9	4600.1	4602.0	4611.6	4623.1	4623.1	4623.1
7.5°	4724.3	4711.0	4724.3	4716.6	4705.3	4701.4	4699.5	4707.1	4724.3	4724.3	4718.6
10°	4844.8	4829.5	4837.1	4833.3	4819.9	4814.1	4812.3	4823.8	4839.0	4837.1	4833.3
12.5°	4976.6	4959.4	4969.0	4957.5	4953.6	4948.0	4948.0	4946.0	4955.6	4948.0	4951.8
15°	5123.8	5112.3	5116.1	5108.5	5114.2	5110.3	5095.1	5087.5	5091.3	5079.8	5081.7
17.5°	5297.7	5271.0	5284.3	5280.5	5280.5	5288.1	5263.3	5253.7	5261.3	5249.8	5259.5
20°	5498.3	5471.6	5477.3	5469.7	5460.1	5467.8	5437.2	5444.8	5450.5	5443.0	5460.1
22.5°	5718.2	5683.7	5681.8	5685.7	5664.6	5666.5	5645.5	5664.6	5676.0	5655.0	5676.0
25°	5943.7	5907.3	5932.2	5922.7	5895.9	5901.5	5886.3	5905.4	5915.0	5888.2	5918.8
27.5°	6182.5	6157.7	6180.6	6186.4	6153.9	6176.8	6153.9	6171.0	6180.6	6140.5	6171.0
30°	6461.6	6436.7	6457.7	6473.0	6434.8	6471.1	6452.0	6463.4	6465.4	6417.6	6446.2
32.5°	6765.4	6727.2	6780.7	6788.4	6746.3	6790.3	6765.4	6780.7	6790.3	6725.3	6769.2
35°	7136.2	7088.4	7149.6	7140.0	7103.7	7140.0	7117.1	7140.0	7162.9	7084.6	7132.4
37.5°	7535.6	7485.9	7550.9	7533.7	7499.3	7524.1	7510.8	7526.1	7562.3	7478.3	7529.9
40°	7975.2	7914.0	8002.0	7971.3	7938.8	7935.0	7942.7	7952.3	8000.0	7906.3	7937.0
42.5°	8445.3	8380.3	8512.2	8464.4	8418.5	8388.0	8412.8	8432.0	8477.8	8372.7	8428.1
45°	8982.4	8907.8	9079.9	9022.5	8949.9	8886.8	8926.9	8955.6	9022.5	8896.4	8961.4
47.5°	9574.8	9490.7	9674.2	9656.9	9538.4	9400.9	9492.6	9574.8	9624.4	9471.6	9523.2
50°	10153.9	10088.9	10329.6	10350.8	10205.5	10012.4	10140.5	10264.8	10278.1	10077.4	10102.3
52.5°	10696.6	10631.6	10981.4	11113.3	10983.3	10754.0	10889.7	11015.8	10914.5	10654.6	10662.3
55°	11130.5	11077.0	11522.2	11862.4	11906.4	11717.2	11797.4	11793.6	11461.0	11061.7	11075.0
57.5°	11235.5	11228.0	11789.8	12510.3	12969.0	12991.9	12833.3	12428.1	11711.4	11174.4	11140.0
60°	10757.8	10805.6	11577.7	12848.6	14071.7	14580.0	13894.0	12737.7	11426.7	10681.3	10593.5
62.5°	9328.2	9454.4	10385.1	12435.8	14962.3	16407.1	14744.4	12267.6	10257.1	9284.3	9226.9
65°	6685.2	6904.9	7933.1	10612.5	14882.0	18012.4	14622.1	10526.5	8009.6	6887.7	6805.6
67.5°	3033.0	3256.5	4129.9	7266.1	12936.5	17576.7	12905.9	7342.6	4336.4	3268.0	3220.2
70°	1098.9	1137.1	1418.1	2908.7	8267.5	14004.8	8621.2	2929.8	1507.9	1211.7	1196.4
72.5°	665.1	670.8	730.0	1041.6	2872.5	8502.7	2994.7	1075.9	745.4	661.2	672.7
75°	422.4	418.5	519.9	636.4	1018.6	2868.6	1068.4	636.4	517.9	472.0	475.9
77.5°	303.9	313.4	372.7	475.9	642.2	972.7	630.7	454.9	372.7	305.8	311.5
80°	227.4	233.2	271.4	370.7	451.0	605.9	401.3	336.4	281.0	191.2	196.8
82.5°	164.3	164.3	177.7	269.5	275.2	326.8	217.9	237.0	185.4	135.7	135.7
85°	97.5	95.5	110.8	160.5	143.3	120.4	99.4	145.2	116.5	84.0	82.2
87.5°	34.4	36.3	34.4	45.8	38.2	32.5	30.5	40.2	32.5	28.7	26.8
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)