

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: P883915

Luminaire Tested: **NAV-SB4C-727-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27210 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

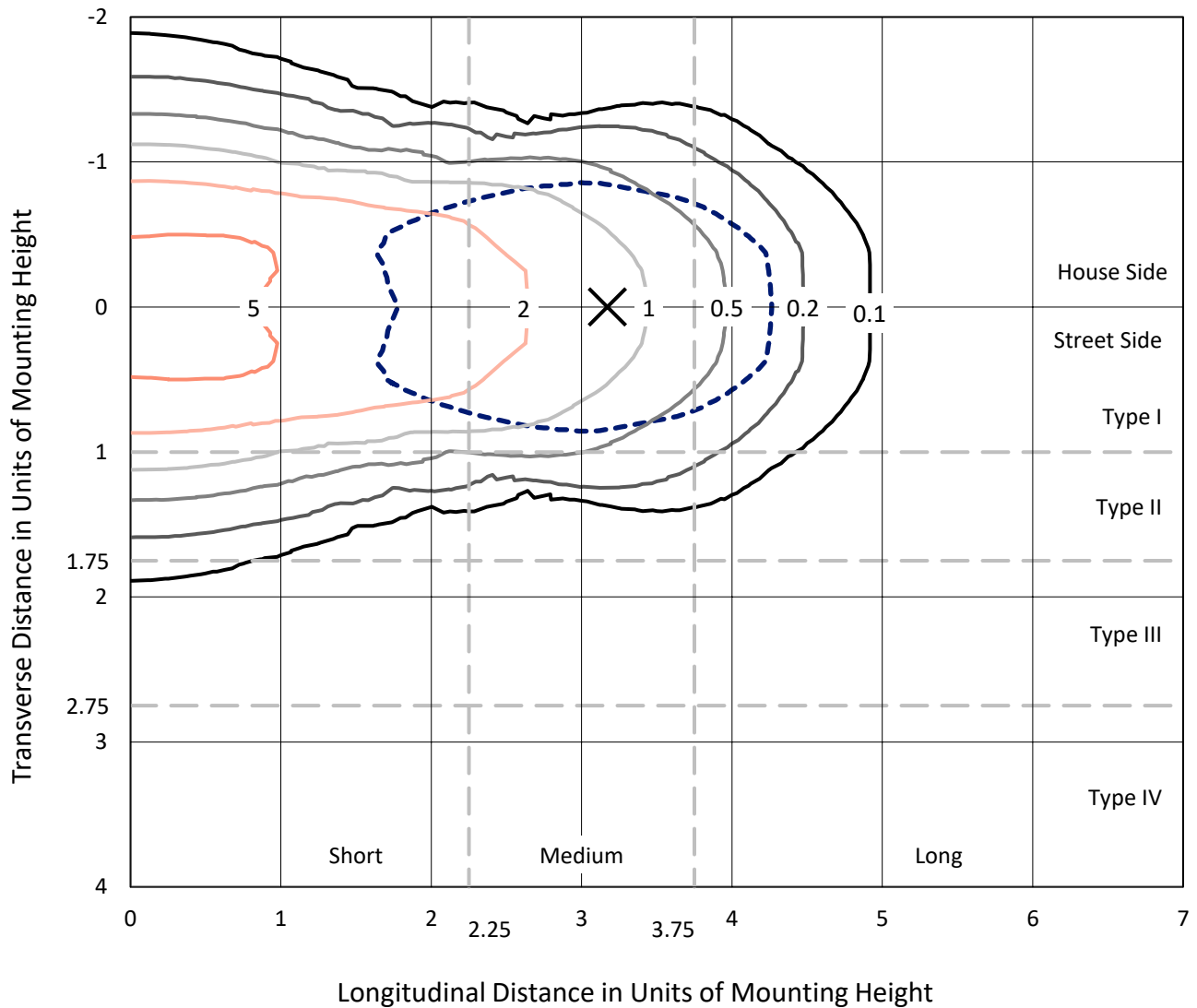
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

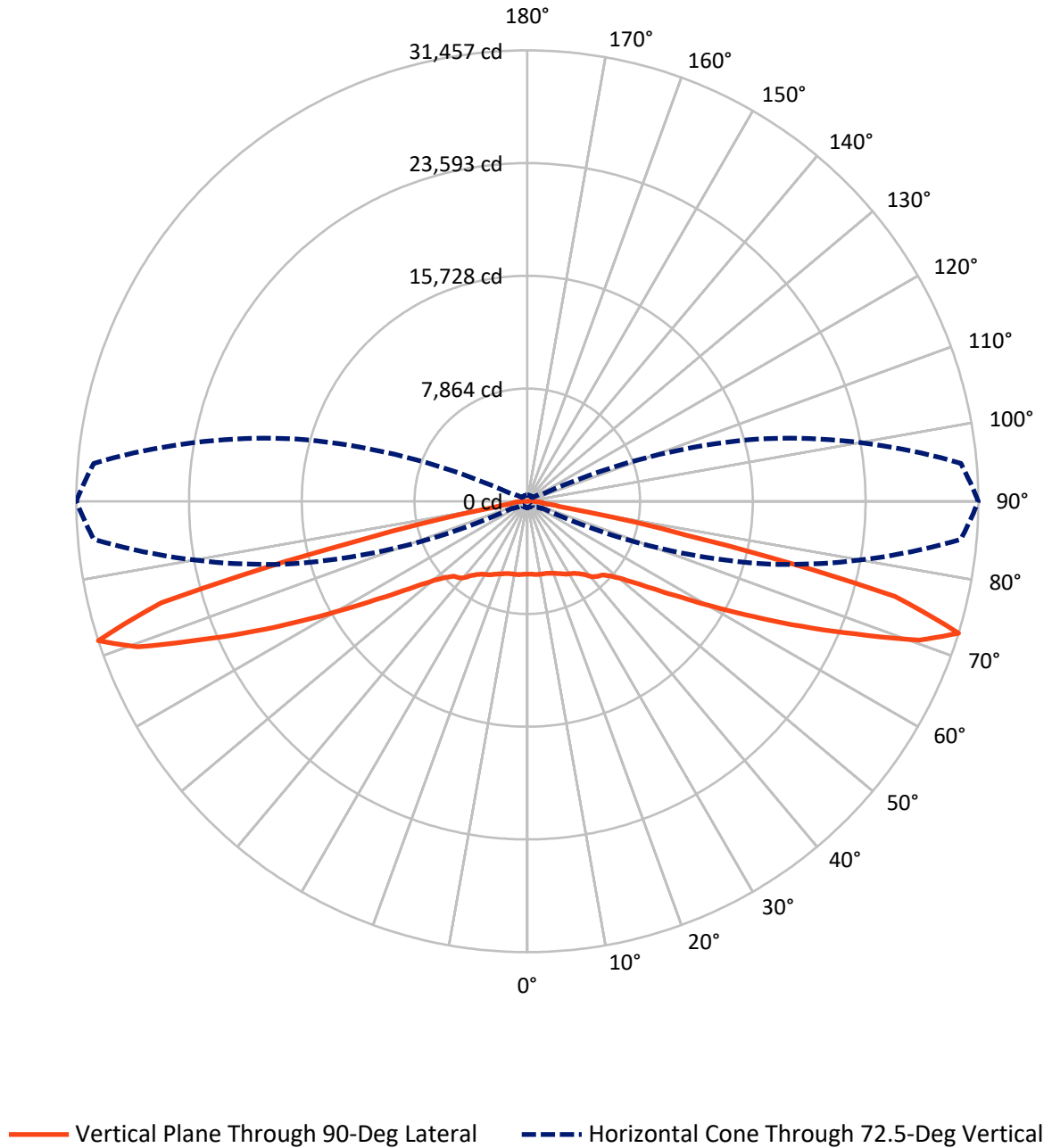
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13605.0	0.0	13605.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13605.0	0.0	13605.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27210.0	0.0	27210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.0	1.8
10°-20°	1507.4	5.5
20°-30°	2513.5	9.2
30°-40°	3456.8	12.7
40°-50°	4221.7	15.5
50°-60°	4882.8	17.9
60°-70°	5822.0	21.4
70°-80°	4063.3	14.9
80°-90°	249.6	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°	27210.0	100.0
0°-180°	27210.0	100.0

Coefficient of Utilization



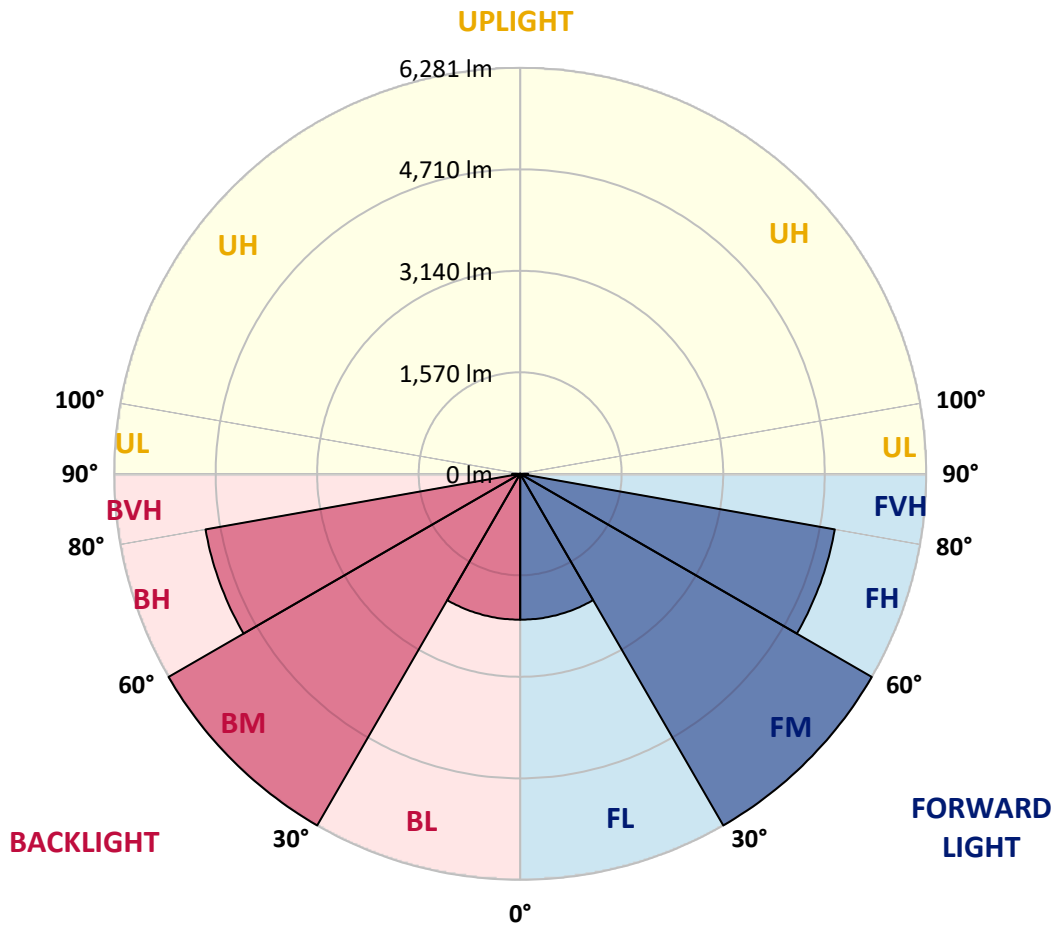
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2256.9	8.3			
FM (30°-60°)	6280.6	23.1			
FH (60°-80°)	4942.6	18.2			G2/5000
FVH (80°-90°)	124.8	0.5			G2/225
BL (0°-30°)	2256.9	8.3	B3/2500		
BM (30°-60°)	6280.6	23.1	B4/8500		
BH (60°-80°)	4942.6	18.2	B4/5000		G4/5000
BVH (80°-90°)	124.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5
2.5°	5088.8	5094.6	5094.6	5090.3	5100.4	5091.7	5091.7	5087.4	5091.7	5087.4	5087.4
5°	5114.8	5122.1	5125.0	5123.5	5136.5	5129.3	5129.3	5123.5	5125.0	5120.6	5120.6
7.5°	5164.0	5174.1	5179.9	5187.1	5205.9	5197.3	5191.5	5174.1	5166.9	5155.3	5155.3
10°	5179.9	5191.5	5210.3	5247.9	5291.3	5292.7	5275.4	5232.0	5198.7	5172.7	5168.3
12.5°	5130.8	5146.7	5185.7	5262.3	5359.2	5398.3	5370.8	5298.5	5233.4	5187.1	5179.9
15°	5068.6	5085.9	5145.2	5260.9	5404.1	5495.2	5492.3	5396.8	5292.7	5220.4	5208.8
17.5°	4971.7	4989.0	5074.4	5236.3	5438.8	5589.2	5629.7	5531.3	5385.3	5288.4	5272.5
20°	4796.7	4812.6	4931.2	5158.2	5450.3	5688.9	5794.5	5707.7	5525.5	5393.9	5369.4
22.5°	4569.7	4594.2	4733.1	5023.7	5422.9	5793.1	5982.5	5923.2	5688.9	5506.7	5473.5
25°	4326.7	4352.8	4514.7	4858.9	5352.0	5868.3	6205.2	6167.6	5874.0	5647.0	5600.7
27.5°	4117.0	4144.5	4320.9	4695.5	5242.1	5897.2	6425.0	6443.8	6098.2	5801.7	5752.6
30°	3952.2	3978.2	4166.2	4563.9	5100.4	5868.3	6617.3	6747.5	6326.7	5936.2	5865.4
32.5°	3771.4	3804.7	4002.8	4403.4	4932.6	5798.8	6785.1	7075.8	6591.3	6080.8	5991.2
35°	3542.9	3573.3	3781.5	4183.6	4712.8	5687.5	6925.4	7440.2	6970.2	6300.6	6200.9
37.5°	3265.3	3294.2	3501.0	3908.8	4494.5	5531.3	7032.4	7850.9	7421.4	6617.3	6484.3
40°	2986.2	3013.7	3207.4	3602.2	4232.7	5331.8	7070.0	8252.9	7939.1	7052.6	6910.9
42.5°	2730.2	2754.8	2932.7	3300.0	3939.2	5077.2	7020.8	8602.8	8403.3	7356.3	7174.1
45°	2494.5	2516.2	2673.8	3016.6	3634.0	4767.8	6873.3	8978.8	8955.7	7573.2	7327.4
47.5°	2225.5	2247.2	2410.6	2741.8	3328.9	4404.8	6623.1	9349.0	9723.6	8064.9	7781.4
50°	1897.3	1916.1	2083.8	2425.1	3012.2	4018.7	6276.1	9639.7	10692.4	8809.6	8453.9
52.5°	1508.3	1528.5	1691.9	2033.2	2636.2	3603.7	5819.1	9829.1	11811.7	9897.1	9458.9
55°	1122.2	1136.6	1278.3	1584.9	2170.6	3130.8	5246.4	9882.6	13081.4	11383.7	10835.6
57.5°	814.2	822.8	913.9	1142.4	1645.7	2539.3	4550.9	9743.8	14592.6	13289.6	12599.8
60°	659.4	662.3	689.8	791.0	1143.9	1871.2	3710.7	9266.6	16232.4	15746.5	14877.4
62.5°	598.7	598.7	605.9	633.4	773.7	1235.0	2694.1	8277.5	17990.9	18851.3	17687.2
65°	556.7	556.7	559.6	572.7	610.3	786.7	1700.6	6666.5	19473.1	22488.2	21016.1
67.5°	519.1	520.6	519.1	523.5	545.2	581.3	986.2	4604.4	20271.4	26256.8	24667.5
70°	480.1	483.0	475.8	475.8	493.1	494.6	617.5	2524.9	19609.1	29415.1	28997.1
72.5°	433.8	438.2	426.6	423.7	436.7	430.9	464.2	1211.8	16835.5	30357.9	31456.9
75°	393.3	399.1	373.1	365.9	365.9	361.5	377.4	621.8	10926.7	24764.4	26488.2
77.5°	357.2	368.8	326.8	303.7	297.9	284.9	308.0	380.3	4779.3	11626.6	11385.1
80°	295.0	310.9	269.0	241.5	231.4	216.9	242.9	266.1	1421.5	2699.9	2585.6
82.5°	219.8	227.0	190.9	172.1	163.4	153.3	182.2	185.1	462.8	955.9	1080.2
85°	140.3	143.2	117.1	101.2	96.9	92.6	115.7	101.2	176.4	702.8	1020.9
87.5°	49.2	56.4	44.8	40.5	43.4	36.2	53.5	30.4	49.2	496.0	614.6
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)