

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: P969960

Luminaire Tested: **NAV-SB6A-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23985 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

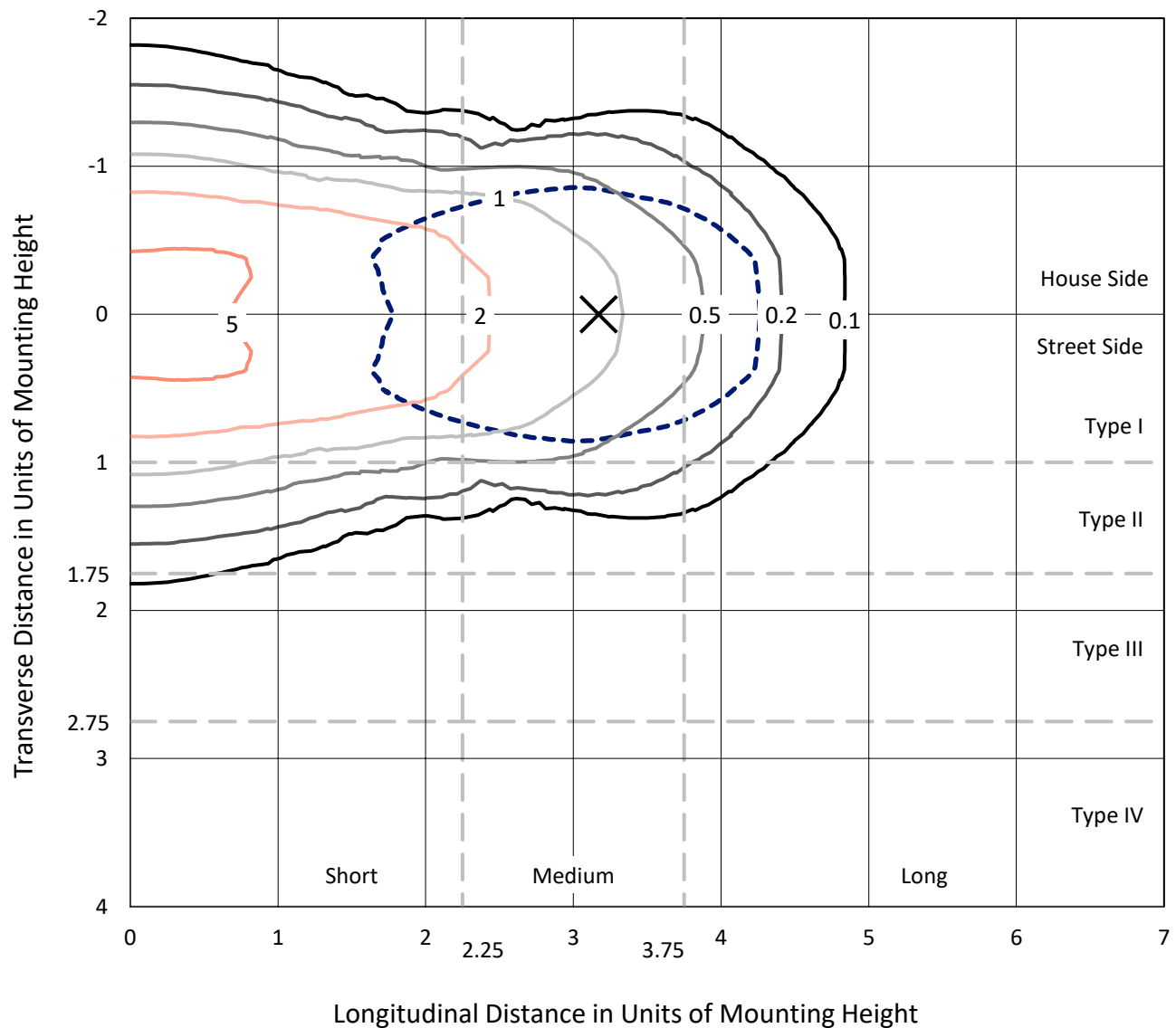
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

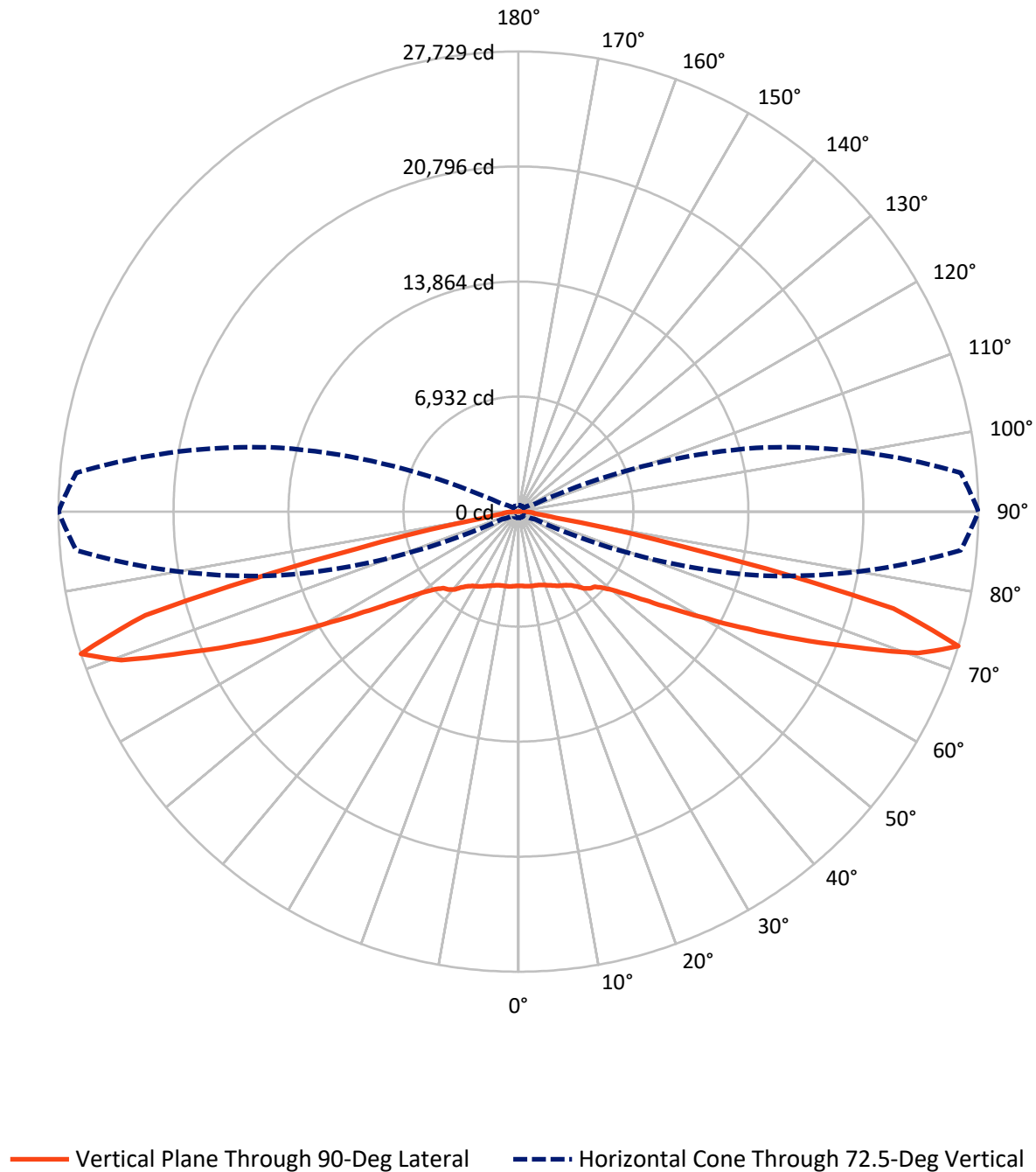
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	11992.5	0.0	11992.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11992.5	0.0	11992.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23985.0	0.0	23985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.6	1.8
10°-20°	1328.7	5.5
20°-30°	2215.6	9.2
30°-40°	3047.1	12.7
40°-50°	3721.3	15.5
50°-60°	4304.1	17.9
60°-70°	5131.9	21.4
70°-80°	3581.8	14.9
80°-90°	220.0	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°	23985.0	100.0
0°-180°	23985.0	100.0

Coefficient of Utilization



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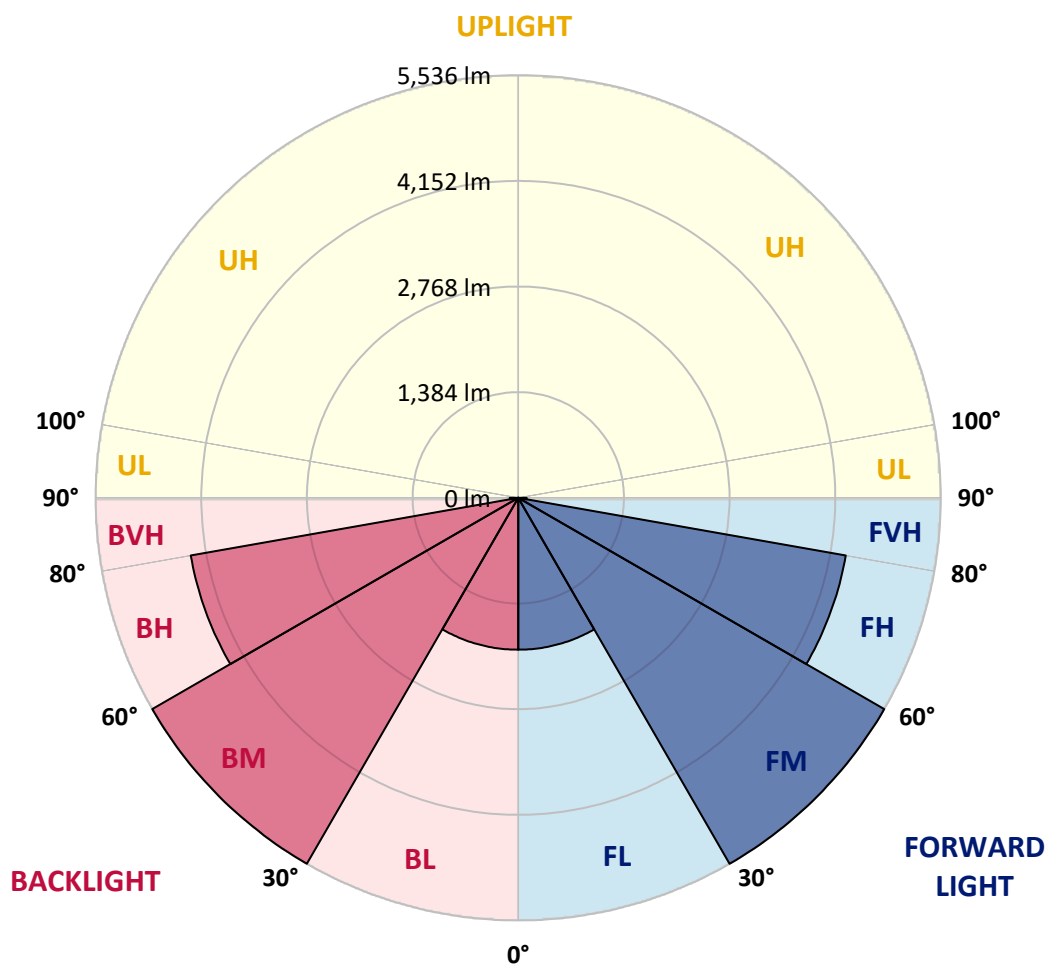
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1989.4	8.3			
FM	(30°-60°)	5536.2	23.1			
FH	(60°-80°)	4356.8	18.2			G2/5000
FVH	(80°-90°)	110.0	0.5			G2/225
BL	(0°-30°)	1989.4	8.3	B3/2500		
BM	(30°-60°)	5536.2	23.1	B4/8500		
BH	(60°-80°)	4356.8	18.2	B4/5000		G4/5000
BVH	(80°-90°)	110.0	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°	4481.8	4481.8	4481.8	4481.8	4481.8	4481.8	4481.8	4481.8	4481.8	4481.8	4481.8
2.5°	4485.7	4490.7	4490.7	4486.9	4495.9	4488.3	4488.3	4484.4	4488.3	4484.4	4484.4
5°	4508.7	4515.0	4517.6	4516.3	4527.7	4521.4	4521.4	4516.3	4517.6	4513.7	4513.7
7.5°	4551.9	4560.8	4566.0	4572.3	4588.9	4581.2	4576.2	4560.8	4554.5	4544.3	4544.3
10°	4566.0	4576.2	4592.7	4625.9	4664.2	4665.4	4650.1	4611.9	4582.6	4559.6	4555.8
12.5°	4522.6	4536.6	4571.1	4638.6	4724.0	4758.5	4734.3	4670.5	4613.1	4572.3	4566.0
15°	4467.9	4483.1	4535.4	4637.4	4763.6	4843.8	4841.3	4757.2	4665.4	4601.6	4591.5
17.5°	4382.4	4397.8	4472.9	4615.7	4794.1	4926.8	4962.4	4875.7	4747.0	4661.6	4647.6
20°	4228.2	4242.2	4346.7	4546.9	4804.4	5014.7	5107.8	5031.2	4870.6	4754.7	4732.9
22.5°	4028.0	4049.8	4172.1	4428.3	4780.1	5106.4	5273.4	5221.1	5014.7	4854.1	4824.8
25°	3813.9	3836.9	3979.7	4283.0	4717.7	5172.8	5469.7	5436.6	5177.8	4977.7	4936.9
27.5°	3629.1	3653.3	3808.8	4139.0	4620.8	5198.2	5663.5	5680.0	5375.4	5114.1	5070.8
30°	3483.8	3506.7	3672.4	4022.9	4495.9	5172.8	5833.1	5947.8	5576.8	5232.6	5170.2
32.5°	3324.4	3353.7	3528.4	3881.5	4348.0	5111.6	5980.9	6237.1	5810.1	5360.1	5281.1
35°	3123.0	3149.8	3333.3	3687.7	4154.2	5013.4	6104.6	6558.4	6144.1	5553.9	5465.9
37.5°	2878.3	2903.7	3086.1	3445.5	3961.7	4875.7	6198.9	6920.4	6541.8	5833.1	5715.8
40°	2632.3	2656.5	2827.3	3175.2	3731.1	4699.8	6232.0	7274.7	6998.1	6216.7	6091.8
42.5°	2406.6	2428.3	2585.0	2908.8	3472.3	4475.5	6188.6	7583.2	7407.3	6484.5	6323.8
45°	2198.8	2218.0	2356.9	2659.1	3203.3	4202.7	6058.7	7914.6	7894.2	6675.6	6458.9
47.5°	1961.7	1980.9	2124.9	2416.8	2934.4	3882.7	5838.1	8240.9	8571.0	7109.0	6859.2
50°	1672.4	1689.0	1836.8	2137.6	2655.2	3542.4	5532.2	8497.1	9425.2	7765.5	7452.0
52.5°	1329.5	1347.4	1491.4	1792.2	2323.8	3176.6	5129.4	8664.1	10411.7	8724.1	8337.9
55°	989.1	1001.9	1126.9	1397.1	1913.4	2759.7	4624.6	8711.3	11530.9	10034.4	9551.4
57.5°	717.7	725.3	805.6	1007.1	1450.6	2238.4	4011.4	8589.0	12863.0	11714.5	11106.5
60°	581.3	583.8	608.0	697.3	1008.3	1649.4	3270.9	8168.3	14308.5	13880.2	13114.2
62.5°	527.8	527.8	534.1	558.3	681.9	1088.6	2374.7	7296.4	15858.6	16617.0	15590.9
65°	490.8	490.8	493.3	504.8	537.9	693.4	1499.1	5876.3	17165.2	19822.9	18525.2
67.5°	457.7	458.9	457.7	461.5	480.5	512.4	869.3	4058.7	17868.7	23144.7	21743.8
70°	423.2	425.8	419.3	419.3	434.7	435.9	544.3	2225.6	17285.0	25928.7	25560.3
72.5°	382.4	386.2	376.1	373.5	385.0	379.9	409.2	1068.2	14840.1	26759.8	27728.6
75°	346.8	351.8	328.9	322.5	322.5	318.7	332.7	548.2	9631.6	21829.2	23348.7
77.5°	314.9	325.0	288.1	267.7	262.6	251.1	271.5	335.3	4212.9	10248.6	10035.8
80°	260.0	274.1	237.1	212.9	204.0	191.2	214.1	234.5	1253.1	2379.8	2279.2
82.5°	193.7	200.1	168.3	151.7	144.0	135.1	160.6	163.2	408.0	842.6	952.2
85°	123.6	126.2	103.2	89.3	85.4	81.6	102.0	89.3	155.5	619.5	900.0
87.5°	43.4	49.7	39.6	35.7	38.2	31.9	47.2	26.8	43.4	437.3	541.7
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)