

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: P884995

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884995
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-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: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21885 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

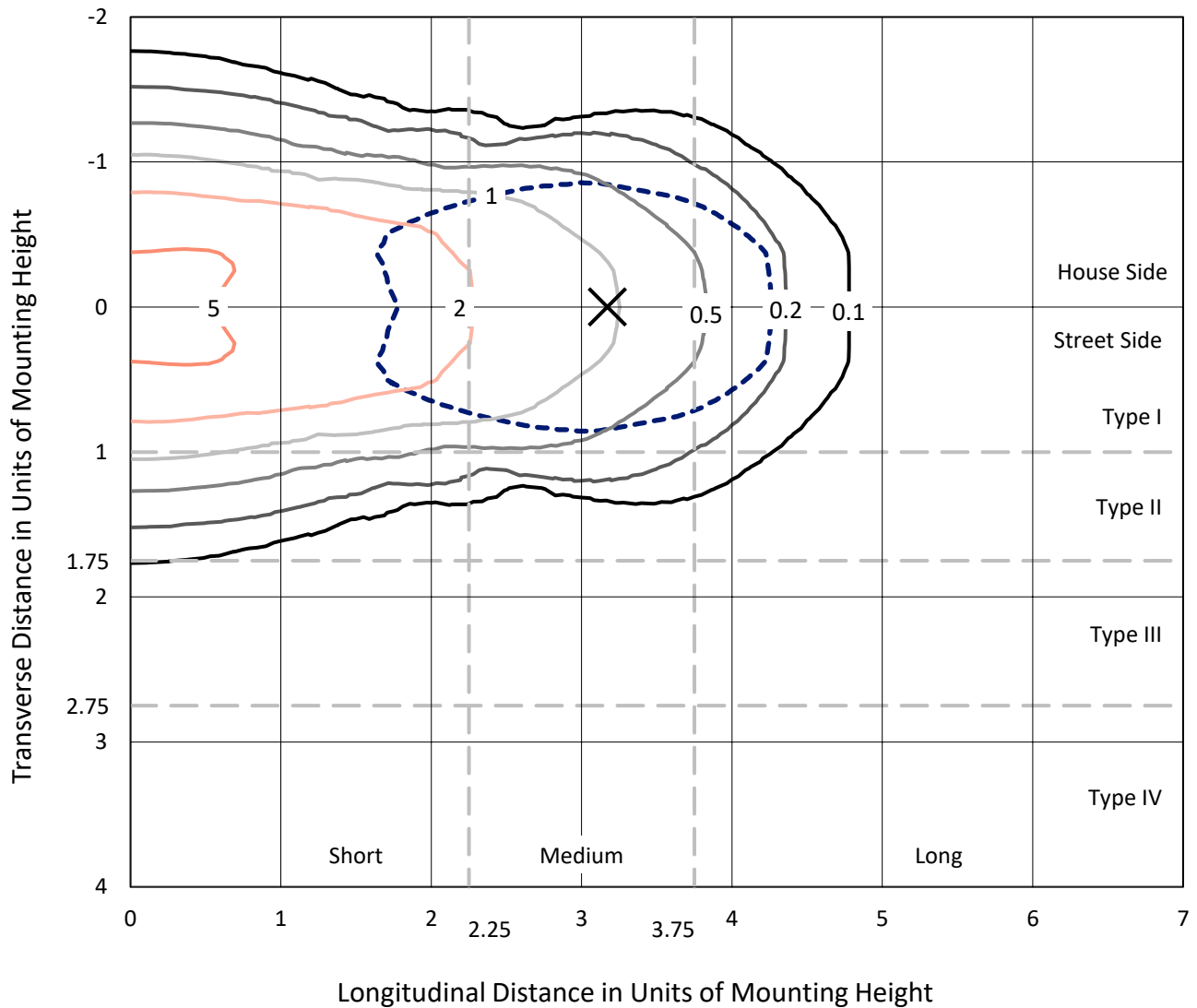
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

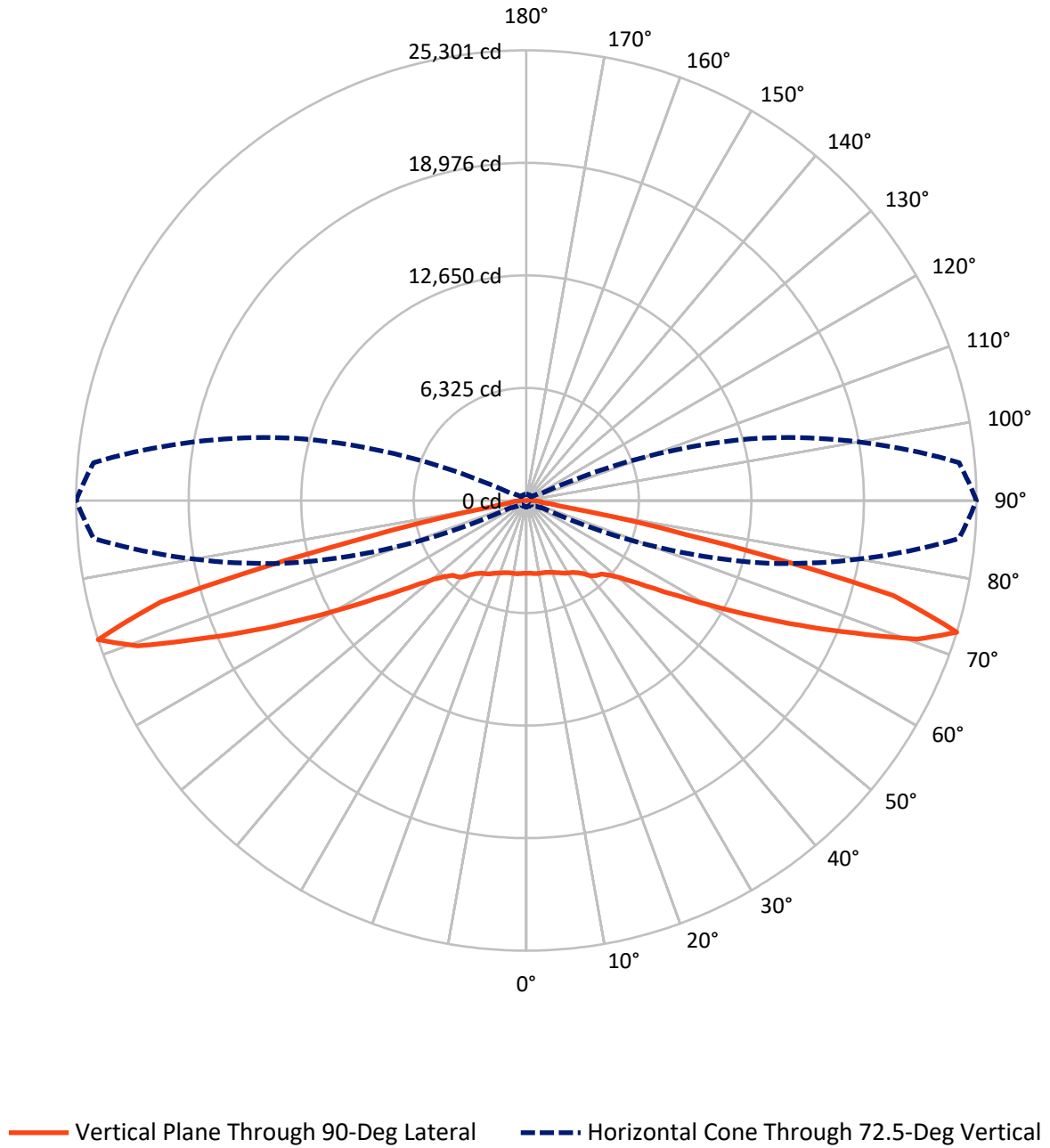
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	10942.5	0.0	10942.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10942.5	0.0	10942.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21885.0	0.0	21885.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.5	1.8
10°-20°	1212.4	5.5
20°-30°	2021.6	9.2
30°-40°	2780.3	12.7
40°-50°	3395.5	15.5
50°-60°	3927.2	17.9
60°-70°	4682.6	21.4
70°-80°	3268.2	14.9
80°-90°	200.7	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°	21885.0	100.0
0°-180°	21885.0	100.0



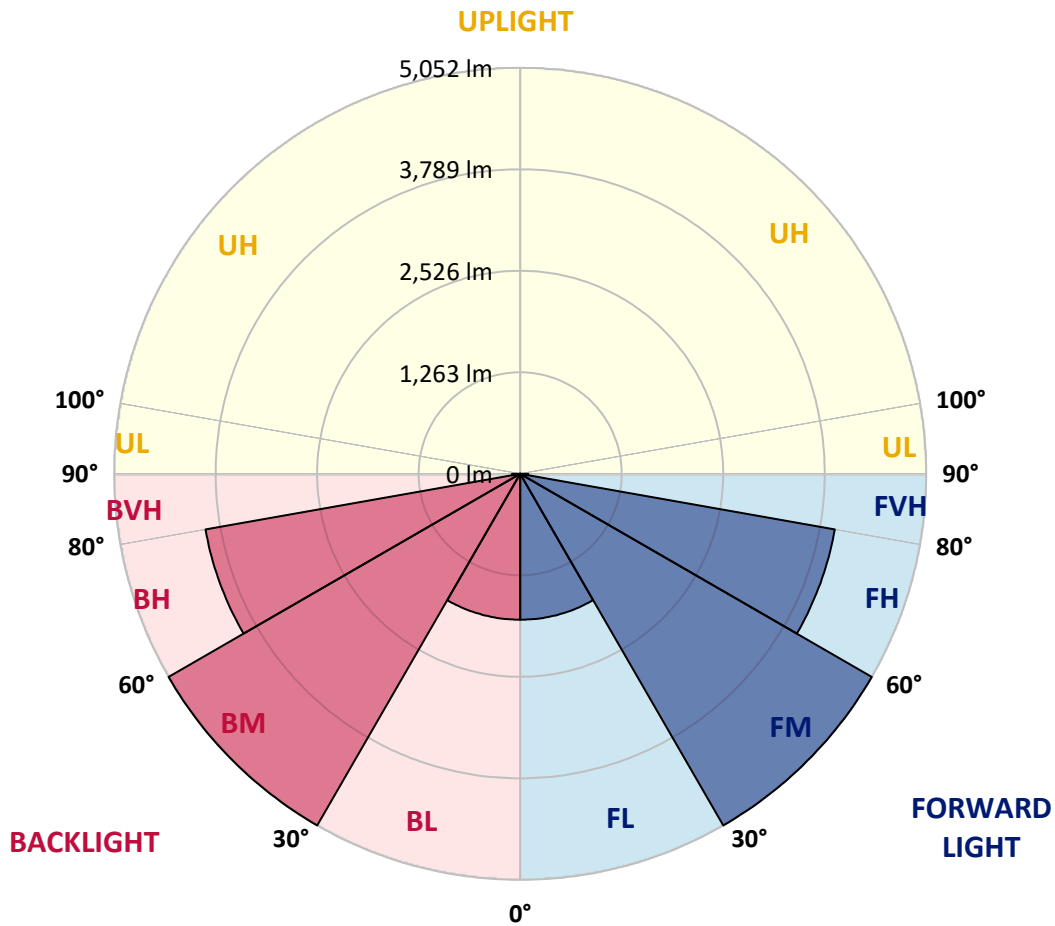
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1815.2	8.3			
FM (30°-60°)	5051.5	23.1			
FH (60°-80°)	3975.4	18.2			G2/5000
FVH (80°-90°)	100.4	0.5			G2/225
BL (0°-30°)	1815.2	8.3	B3/2500		
BM (30°-60°)	5051.5	23.1	B4/8500		
BH (60°-80°)	3975.4	18.2	B4/5000		G4/5000
BVH (80°-90°)	100.4	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°	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4	4089.4
2.5°	4092.9	4097.6	4097.6	4094.1	4102.2	4095.3	4095.3	4091.8	4095.3	4091.8	4091.8
5°	4113.9	4119.7	4122.0	4120.8	4131.3	4125.5	4125.5	4120.8	4122.0	4118.5	4118.5
7.5°	4153.4	4161.6	4166.2	4172.0	4187.1	4180.2	4175.5	4161.6	4155.7	4146.4	4146.4
10°	4166.2	4175.5	4190.6	4220.9	4255.8	4256.9	4243.0	4208.1	4181.3	4160.4	4156.9
12.5°	4126.7	4139.5	4170.9	4232.5	4310.4	4341.8	4319.7	4261.6	4209.2	4172.0	4166.2
15°	4076.6	4090.6	4138.3	4231.3	4346.5	4419.8	4417.4	4340.7	4256.9	4198.8	4189.5
17.5°	3998.7	4012.7	4081.3	4211.6	4374.4	4495.4	4527.9	4448.8	4331.4	4253.4	4240.6
20°	3858.0	3870.8	3966.2	4148.8	4383.7	4575.6	4660.5	4590.7	4444.2	4338.3	4318.6
22.5°	3675.4	3695.2	3806.8	4040.6	4361.6	4659.4	4811.7	4764.0	4575.6	4429.1	4402.3
25°	3480.0	3500.9	3631.2	3908.0	4304.6	4719.8	4990.8	4960.6	4724.5	4541.9	4504.7
27.5°	3311.3	3333.4	3475.3	3776.6	4216.2	4743.1	5167.6	5182.8	4904.8	4666.3	4626.8
30°	3178.7	3199.7	3350.9	3670.7	4102.2	4719.8	5322.3	5427.0	5088.5	4774.5	4717.5
32.5°	3033.4	3060.1	3219.4	3541.6	3967.3	4664.0	5457.2	5691.0	5301.4	4890.8	4818.7
35°	2849.6	2874.0	3041.5	3364.8	3790.5	4574.5	5570.1	5984.1	5606.1	5067.6	4987.4
37.5°	2626.3	2649.5	2815.9	3143.8	3614.9	4448.8	5656.1	6314.4	5969.0	5322.3	5215.3
40°	2401.8	2423.9	2579.7	2897.3	3404.4	4288.3	5686.4	6637.8	6385.4	5672.4	5558.4
42.5°	2195.9	2215.7	2358.8	2654.2	3168.3	4083.6	5646.8	6919.3	6758.7	5916.7	5770.1
45°	2006.3	2023.8	2150.6	2426.2	2922.9	3834.7	5528.2	7221.7	7203.0	6091.1	5893.4
47.5°	1790.0	1807.5	1938.9	2205.2	2677.4	3542.8	5327.0	7519.4	7820.7	6486.6	6258.6
50°	1526.0	1541.1	1676.0	1950.5	2422.7	3232.2	5047.8	7753.2	8599.9	7085.6	6799.5
52.5°	1213.1	1229.4	1360.8	1635.3	2120.3	2898.4	4680.3	7905.6	9500.2	7960.2	7607.8
55°	902.6	914.2	1028.2	1274.8	1745.8	2518.1	4219.7	7948.6	10521.4	9155.9	8715.1
57.5°	654.8	661.8	735.1	918.8	1323.6	2042.4	3660.3	7836.9	11736.8	10688.8	10134.0
60°	530.4	532.7	554.8	636.2	920.0	1505.0	2984.5	7453.1	13055.7	12664.9	11965.9
62.5°	481.5	481.5	487.3	509.4	622.3	993.3	2166.8	6657.6	14470.1	15162.1	14225.8
65°	447.8	447.8	450.1	460.6	490.8	632.7	1367.8	5361.9	15662.2	18087.3	16903.3
67.5°	417.6	418.7	417.6	421.0	438.5	467.6	793.2	3703.3	16304.3	21118.3	19840.1
70°	386.1	388.5	382.7	382.7	396.6	397.8	496.6	2030.8	15771.6	23658.5	23322.4
72.5°	348.9	352.4	343.1	340.8	351.3	346.6	373.4	974.7	13540.8	24416.9	25300.8
75°	316.4	321.0	300.1	294.3	294.3	290.8	303.6	500.1	8788.3	19918.0	21304.4
77.5°	287.3	296.6	262.9	244.3	239.6	229.1	247.7	305.9	3844.0	9351.3	9157.0
80°	237.3	250.1	216.3	194.2	186.1	174.5	195.4	214.0	1143.3	2171.5	2079.6
82.5°	176.8	182.6	153.5	138.4	131.4	123.3	146.6	148.9	372.2	768.8	868.8
85°	112.8	115.1	94.2	81.4	77.9	74.4	93.0	81.4	141.9	565.3	821.1
87.5°	39.5	45.4	36.1	32.6	34.9	29.1	43.0	24.4	39.5	398.9	494.3
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)