

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: P885015

Luminaire Tested: **NAV-SB6A-835-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885015
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-835-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22726 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

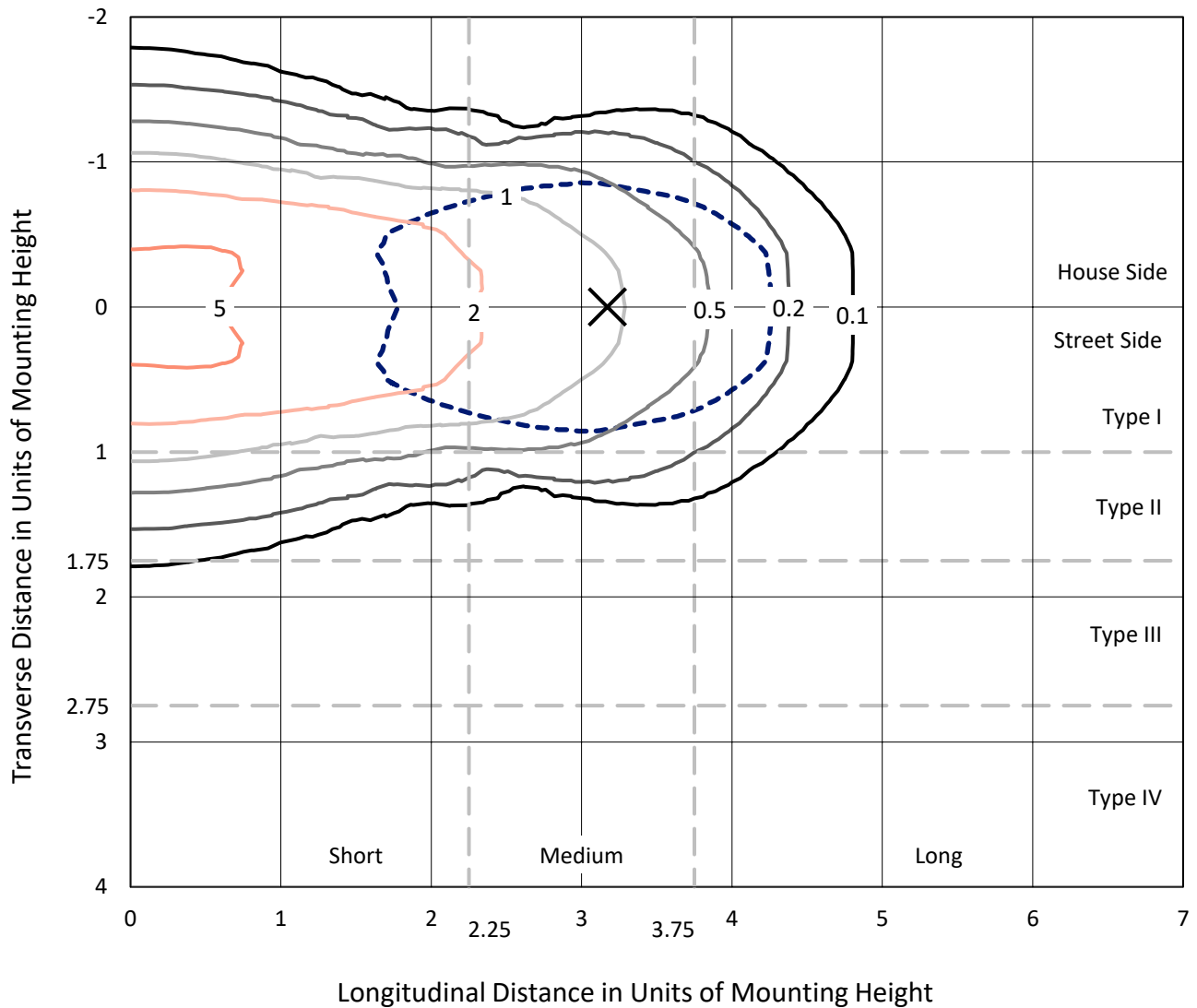
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

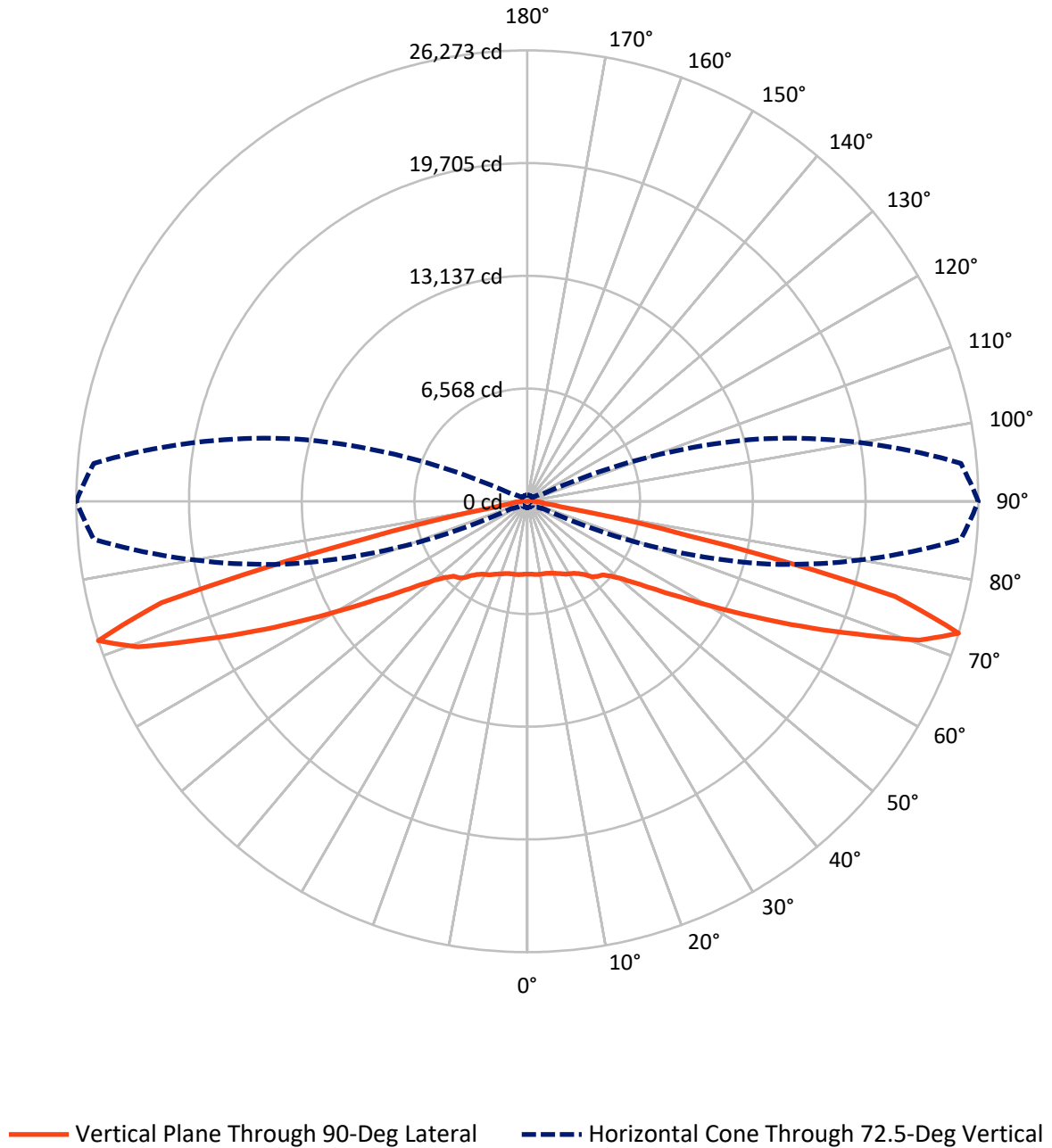
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	11363.0	0.0	11363.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11363.0	0.0	11363.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22726.0	0.0	22726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.8	1.8
10°-20°	1259.0	5.5
20°-30°	2099.3	9.2
30°-40°	2887.1	12.7
40°-50°	3526.0	15.5
50°-60°	4078.2	17.9
60°-70°	4862.5	21.4
70°-80°	3393.7	14.9
80°-90°	208.4	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°	22726.0	100.0
0°-180°	22726.0	100.0

Coefficient of Utilization



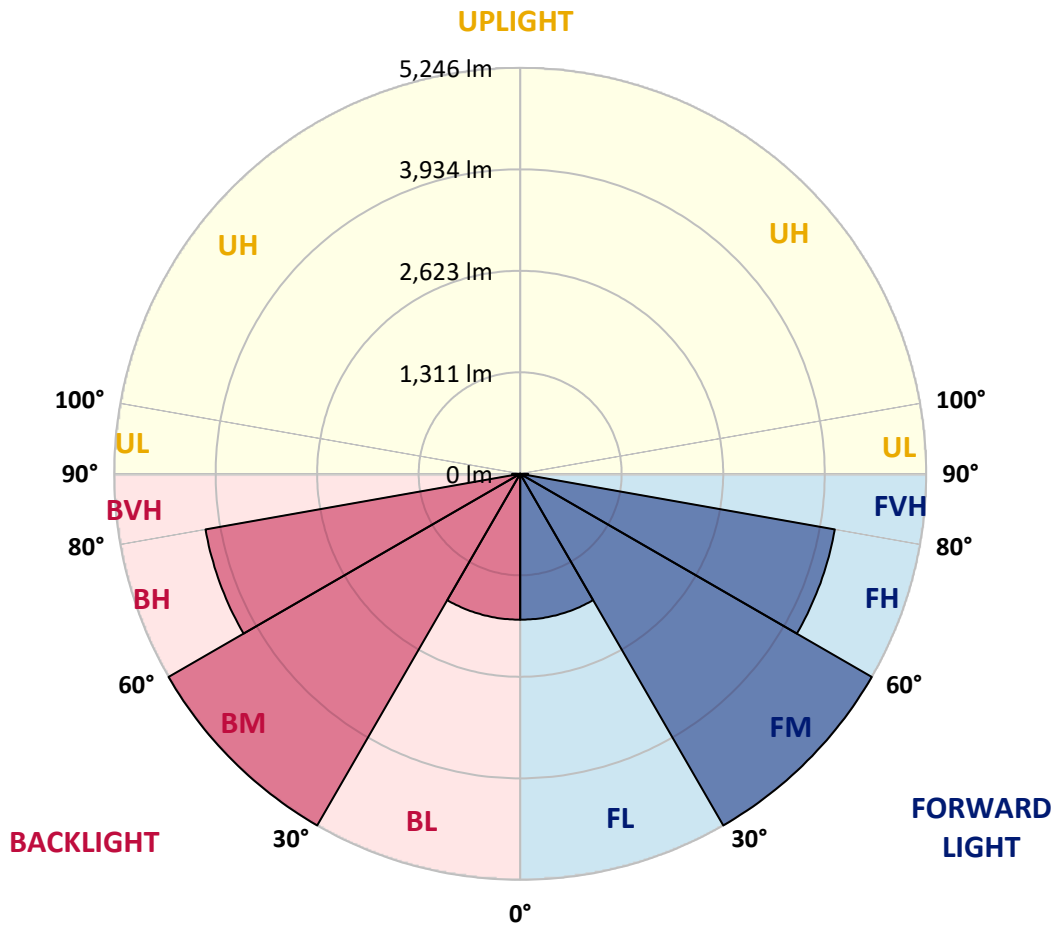
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1885.0	8.3			
FM (30°-60°)	5245.6	23.1			
FH (60°-80°)	4128.1	18.2			G2/5000
FVH (80°-90°)	104.2	0.5			G2/225
BL (0°-30°)	1885.0	8.3	B3/2500		
BM (30°-60°)	5245.6	23.1	B4/8500		
BH (60°-80°)	4128.1	18.2	B4/5000		G4/5000
BVH (80°-90°)	104.2	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°	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6	4246.6
2.5°	4250.2	4255.0	4255.0	4251.4	4259.9	4252.6	4252.6	4249.0	4252.6	4249.0	4249.0
5°	4272.0	4278.0	4280.4	4279.2	4290.1	4284.0	4284.0	4279.2	4280.4	4276.8	4276.8
7.5°	4313.0	4321.5	4326.3	4332.3	4348.0	4340.8	4336.0	4321.5	4315.4	4305.8	4305.8
10°	4326.3	4336.0	4351.7	4383.1	4419.3	4420.5	4406.0	4369.8	4342.0	4320.3	4316.6
12.5°	4285.2	4298.5	4331.1	4395.2	4476.1	4508.7	4485.7	4425.3	4371.0	4332.3	4326.3
15°	4233.3	4247.8	4297.3	4393.9	4513.5	4589.6	4587.2	4507.5	4420.5	4360.1	4350.5
17.5°	4152.4	4166.9	4238.1	4373.4	4542.5	4668.1	4701.9	4619.8	4497.8	4416.9	4403.6
20°	4006.2	4019.5	4118.6	4308.2	4552.2	4751.4	4839.6	4767.2	4615.0	4505.1	4484.5
22.5°	3816.6	3837.2	3953.1	4195.9	4529.2	4838.4	4996.6	4947.1	4751.4	4599.3	4571.5
25°	3613.7	3635.5	3770.7	4058.2	4470.0	4901.2	5182.6	5151.2	4906.0	4716.4	4677.8
27.5°	3438.6	3461.5	3608.9	3921.7	4378.2	4925.4	5366.2	5381.9	5093.3	4845.7	4804.6
30°	3300.9	3322.6	3479.6	3811.8	4259.9	4901.2	5526.9	5635.6	5284.1	4958.0	4898.8
32.5°	3149.9	3177.7	3343.2	3677.7	4119.8	4843.2	5667.0	5909.7	5505.1	5078.8	5003.9
35°	2959.1	2984.5	3158.4	3494.1	3936.2	4750.2	5784.1	6214.1	5821.6	5262.3	5179.0
37.5°	2727.2	2751.3	2924.1	3264.7	3753.8	4619.8	5873.5	6557.1	6198.4	5526.9	5415.7
40°	2494.1	2517.0	2678.9	3008.6	3535.2	4453.1	5904.9	6892.9	6630.8	5890.4	5772.0
42.5°	2280.3	2300.8	2449.4	2756.2	3290.0	4240.6	5863.8	7185.1	7018.5	6144.0	5991.9
45°	2083.4	2101.6	2233.2	2519.5	3035.2	3982.1	5740.6	7499.2	7479.8	6325.2	6119.9
47.5°	1858.8	1876.9	2013.4	2290.0	2780.3	3678.9	5531.7	7808.4	8121.2	6735.9	6499.1
50°	1584.6	1600.3	1740.4	2025.5	2515.8	3356.5	5241.8	8051.1	8930.4	7357.9	7060.7
52.5°	1259.7	1276.6	1413.1	1698.2	2201.8	3009.8	4860.2	8209.4	9865.2	8266.1	7900.2
55°	937.2	949.3	1067.7	1323.7	1812.9	2614.9	4381.9	8254.0	10925.7	9507.7	9050.0
57.5°	680.0	687.2	763.3	954.2	1374.5	2120.9	3800.9	8138.1	12187.8	11099.6	10523.5
60°	550.8	553.2	576.1	660.7	955.4	1562.9	3099.2	7739.5	13557.5	13151.6	12425.8
62.5°	500.0	500.0	506.1	529.0	646.2	1031.5	2250.1	6913.4	15026.1	15744.8	14772.5
65°	465.0	465.0	467.4	478.3	509.7	657.0	1420.4	5567.9	16264.1	18782.4	17552.8
67.5°	433.6	434.8	433.6	437.2	455.3	485.5	823.7	3845.6	16930.8	21929.9	20602.5
70°	401.0	403.4	397.4	397.4	411.9	413.1	515.7	2108.8	16377.6	24567.7	24218.6
72.5°	362.3	366.0	356.3	353.9	364.8	359.9	387.7	1012.1	14061.1	25355.2	26273.1
75°	328.5	333.4	311.6	305.6	305.6	301.9	315.2	519.4	9126.1	20683.4	22123.1
77.5°	298.3	308.0	273.0	253.6	248.8	237.9	257.3	317.6	3991.7	9710.6	9508.9
80°	246.4	259.7	224.6	201.7	193.2	181.2	202.9	222.2	1187.3	2254.9	2159.5
82.5°	183.6	189.6	159.4	143.7	136.5	128.0	152.2	154.6	386.5	798.3	902.2
85°	117.2	119.6	97.8	84.5	80.9	77.3	96.6	84.5	147.4	587.0	852.7
87.5°	41.1	47.1	37.4	33.8	36.2	30.2	44.7	25.4	41.1	414.3	513.3
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)