

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: P885332

Luminaire Tested: **NAV-SB6C-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37358 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

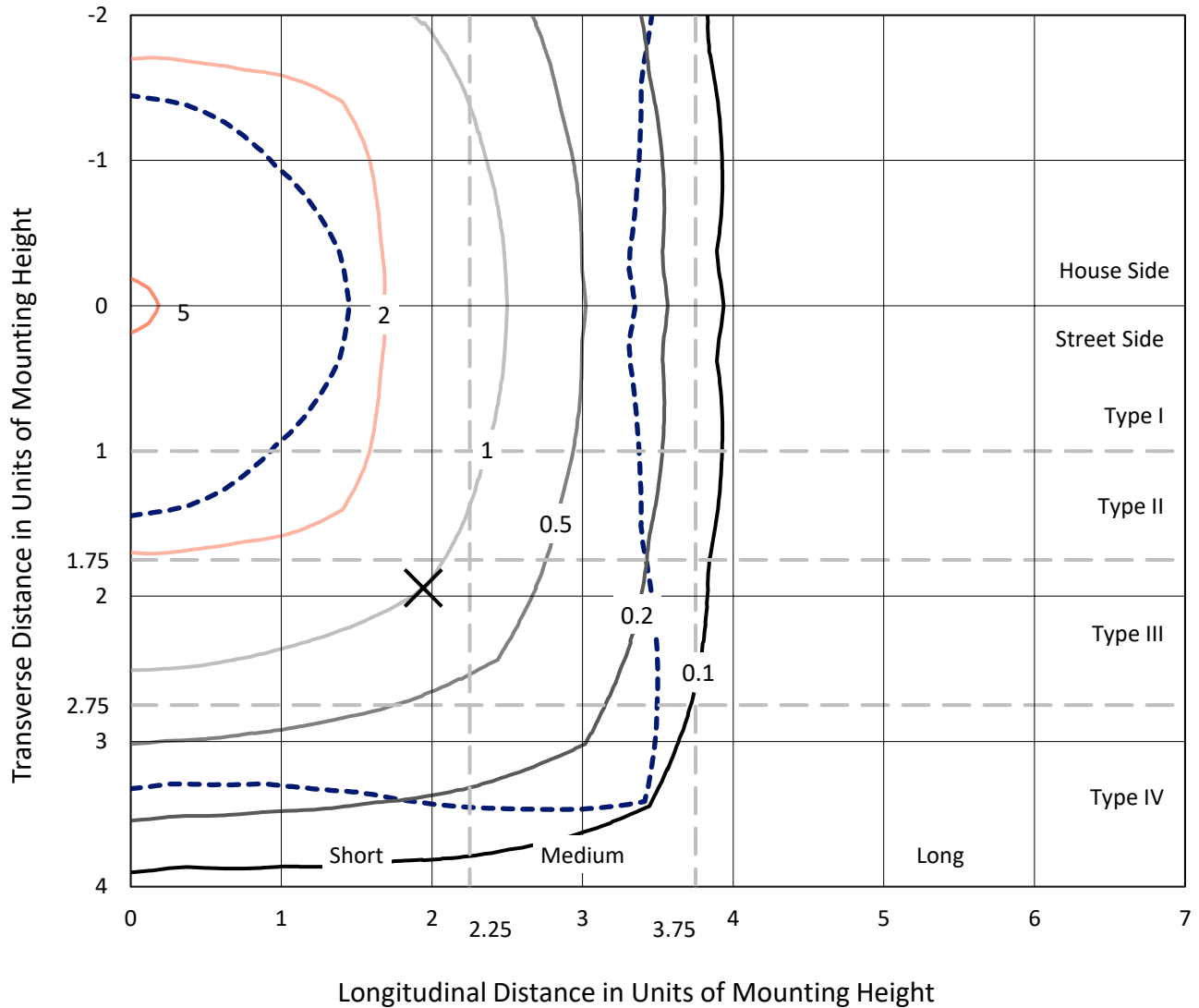
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

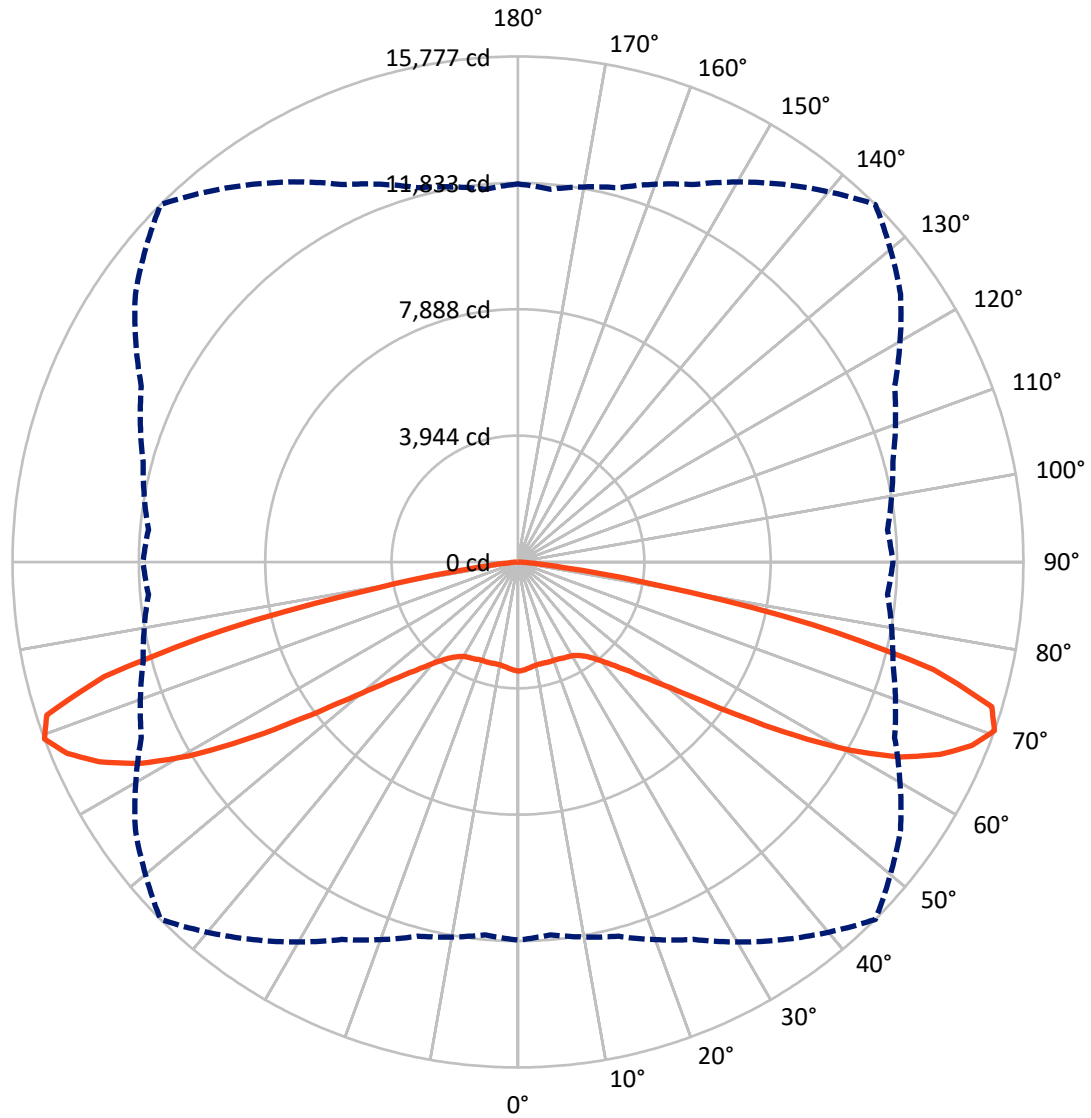
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18679.0	0.0	18679.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18679.0	0.0	18679.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37358.0	0.0	37358.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.0	0.8
10°-20°	930.8	2.5
20°-30°	1549.0	4.1
30°-40°	2342.6	6.3
40°-50°	3892.8	10.4
50°-60°	7345.5	19.7
60°-70°	12403.2	33.2
70°-80°	8150.2	21.8
80°-90°	427.0	1.1
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°	37358.0	100.0
0°-180°	37358.0	100.0

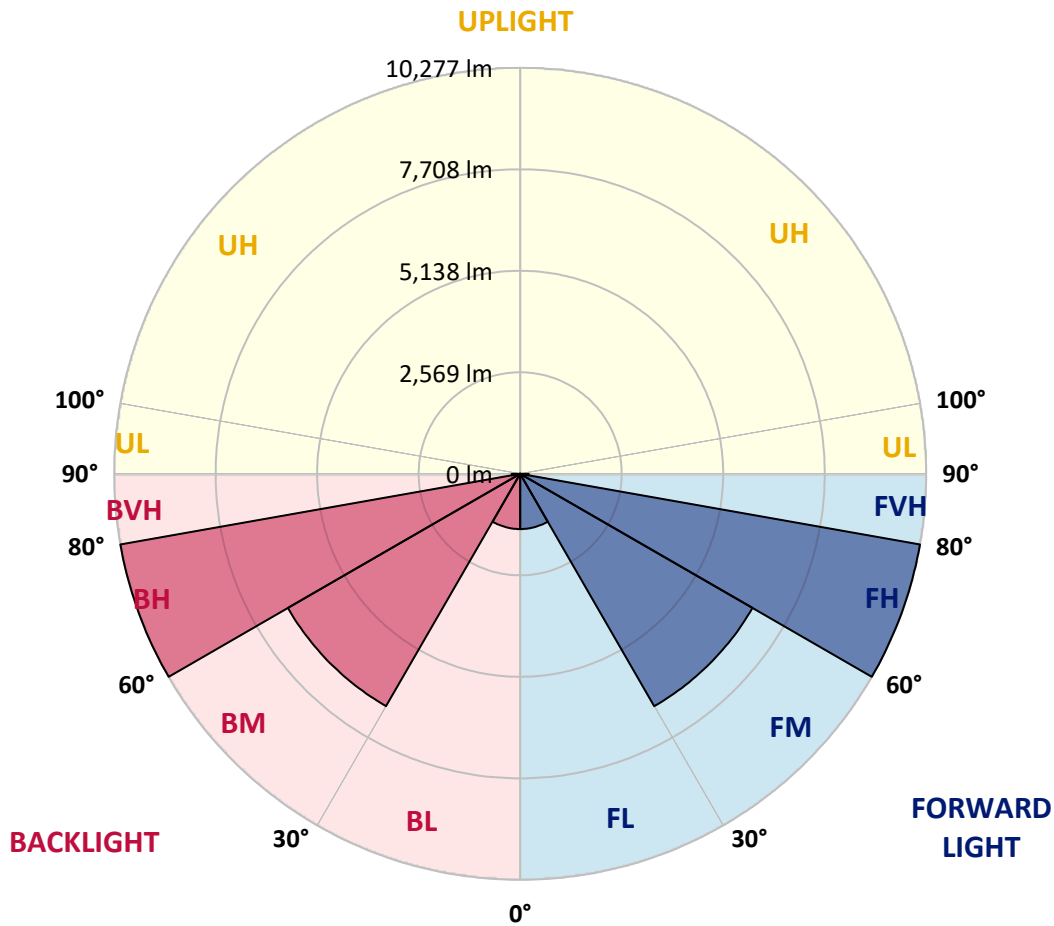


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.4	3.7			
FM (30°-60°)	6790.4	18.2			
FH (60°-80°)	10276.7	27.5			G4/12000
FVH (80°-90°)	213.5	0.6			G2/225
BL (0°-30°)	1398.4	3.7	B3/2500		
BM (30°-60°)	6790.4	18.2	B4/8500		
BH (60°-80°)	10276.7	27.5	B5		G4/12000
BVH (80°-90°)	213.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3407.8	3407.8	3407.8	3407.8	3407.8	3407.8	3407.8	3407.8	3407.8	3407.8	3407.8
2.5°	3386.4	3396.2	3392.3	3384.5	3384.5	3378.7	3384.5	3388.4	3394.2	3398.1	3396.2
5°	3341.8	3349.5	3347.6	3341.8	3343.7	3337.9	3341.8	3347.6	3351.5	3353.4	3353.4
7.5°	3302.9	3310.7	3306.8	3297.1	3297.1	3291.3	3293.2	3299.1	3304.9	3306.8	3306.8
10°	3293.2	3301.0	3289.4	3273.8	3268.0	3260.2	3262.2	3268.0	3279.6	3285.5	3285.5
12.5°	3297.1	3302.9	3291.3	3268.0	3262.2	3254.4	3254.4	3260.2	3275.8	3283.5	3285.5
15°	3308.8	3314.6	3297.1	3271.9	3266.1	3260.2	3258.3	3266.1	3283.5	3297.1	3299.1
17.5°	3330.1	3336.0	3308.8	3273.8	3266.1	3268.0	3266.1	3271.9	3299.1	3324.3	3324.3
20°	3349.5	3353.4	3316.5	3273.8	3266.1	3268.0	3266.1	3277.7	3312.7	3347.6	3349.5
22.5°	3355.4	3359.3	3324.3	3287.4	3281.6	3283.5	3281.6	3293.2	3326.2	3361.2	3361.2
25°	3357.3	3363.1	3336.0	3306.8	3316.5	3320.4	3316.5	3318.5	3343.7	3374.8	3372.8
27.5°	3386.4	3394.2	3369.0	3343.7	3349.5	3347.6	3353.4	3359.3	3378.7	3409.7	3402.0
30°	3446.6	3452.5	3431.1	3405.9	3402.0	3388.4	3405.9	3425.3	3446.6	3473.8	3468.0
32.5°	3545.7	3557.3	3530.1	3502.9	3485.5	3477.7	3491.3	3524.3	3553.4	3582.6	3570.9
35°	3710.7	3718.5	3693.2	3642.8	3611.7	3611.7	3623.3	3666.1	3712.7	3749.6	3736.0
37.5°	3943.7	3953.4	3908.8	3848.6	3802.0	3802.0	3817.5	3862.2	3932.1	3984.5	3965.1
40°	4227.2	4240.8	4184.5	4122.4	4077.7	4069.9	4089.4	4139.8	4205.9	4271.9	4250.5
42.5°	4569.0	4584.5	4510.7	4456.4	4421.4	4421.4	4431.1	4477.7	4537.9	4619.5	4613.6
45°	5005.9	5033.1	4932.1	4877.7	4844.7	4852.5	4858.3	4899.1	4953.4	5046.7	5042.8
47.5°	5526.3	5553.5	5446.7	5390.3	5384.5	5421.4	5398.1	5427.2	5456.4	5563.2	5532.1
50°	6116.6	6163.2	6089.4	6085.5	6097.1	6165.1	6110.7	6126.3	6093.3	6161.2	6120.5
52.5°	6838.9	6906.9	6893.3	6916.6	7046.7	7186.5	7062.2	7007.8	6883.6	6904.9	6833.1
55°	7714.6	7817.6	7837.0	7976.8	8271.9	8557.4	8293.3	8073.9	7809.8	7761.2	7685.5
57.5°	8710.8	8792.3	8885.5	9171.0	9722.4	10229.2	9722.4	9237.0	8821.4	8722.4	8652.5
60°	9782.6	9883.6	9972.9	10394.3	11213.7	11926.3	11198.2	10427.3	9877.8	9743.8	9627.3
62.5°	10934.1	11064.2	11126.3	11594.3	12549.6	13400.1	12563.2	11629.2	11019.5	10875.8	10759.3
65°	12039.0	12145.8	12215.7	12714.7	13627.3	14479.8	13689.5	12769.1	12141.9	11953.5	11860.3
67.5°	12553.5	12611.8	12782.7	13347.7	14310.8	15283.7	14473.9	13407.9	12706.9	12376.8	12380.7
70°	11800.1	11681.7	12093.3	12998.2	14392.4	15776.9	14578.8	12971.0	12112.7	11576.8	11705.0
72.5°	9118.5	8914.7	9629.2	11176.8	13460.3	15462.3	13553.5	11264.2	10073.9	8986.5	9256.4
75°	4961.2	4730.1	5716.6	7673.9	10734.1	13402.1	10980.7	7893.3	6365.1	4924.3	5244.7
77.5°	1400.0	1312.6	2108.8	3712.7	6456.4	9409.8	6704.9	3794.2	2501.0	1483.5	1648.6
80°	429.1	415.5	563.1	1118.5	2741.8	4506.8	2635.0	1132.1	716.5	452.4	477.7
82.5°	254.4	233.0	279.6	407.8	699.0	1415.5	679.6	425.2	341.8	229.1	248.5
85°	145.6	135.9	165.1	198.1	235.0	301.0	196.1	201.9	182.5	122.3	128.2
87.5°	60.2	54.4	64.1	62.1	54.4	69.9	52.4	62.1	73.8	48.5	44.7
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)