

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: P968706

Luminaire Tested: **NAV-SB5C-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36380.3 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

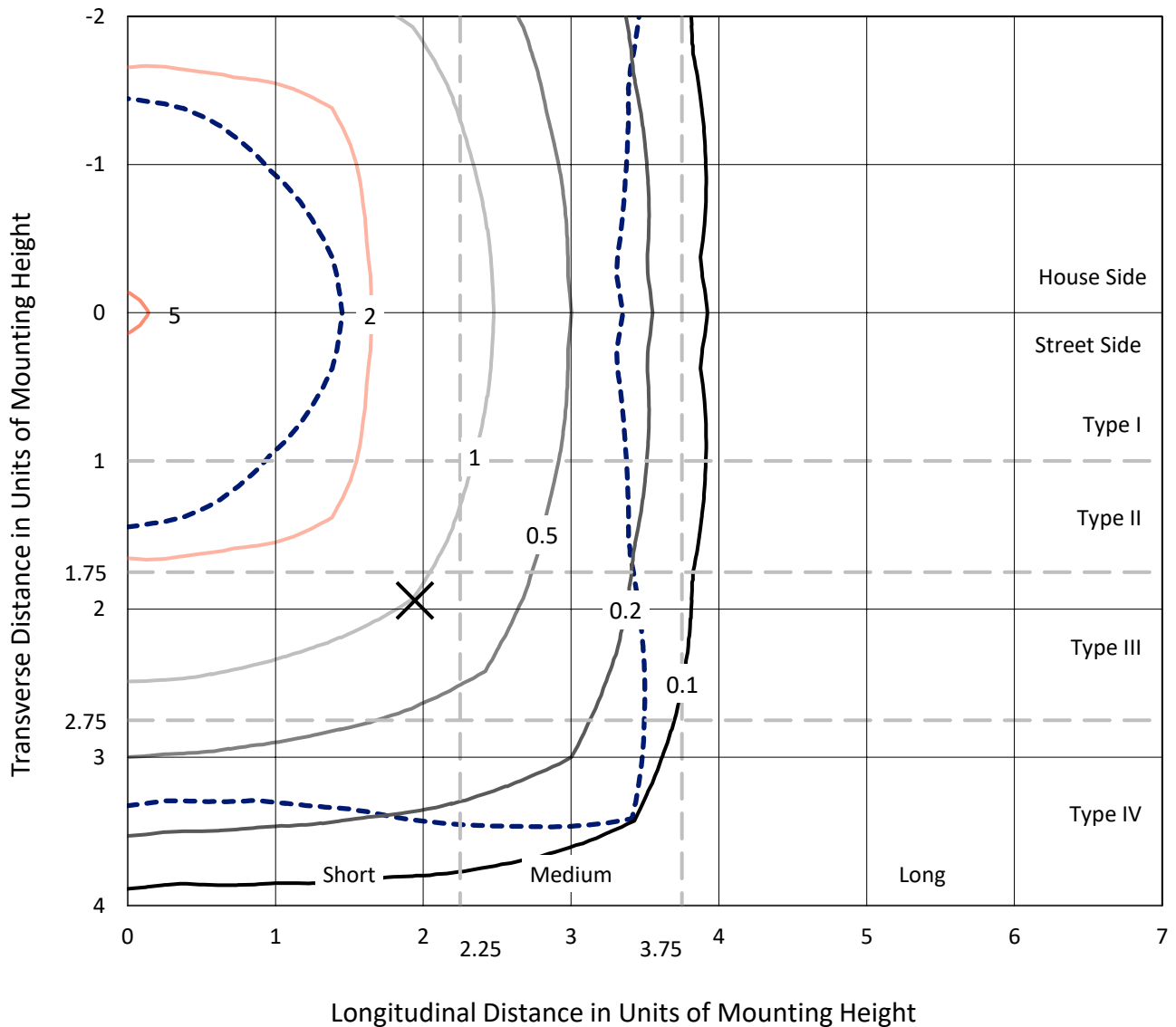
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P968706
 CATALOG NUMBER: NAV-SB5C-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

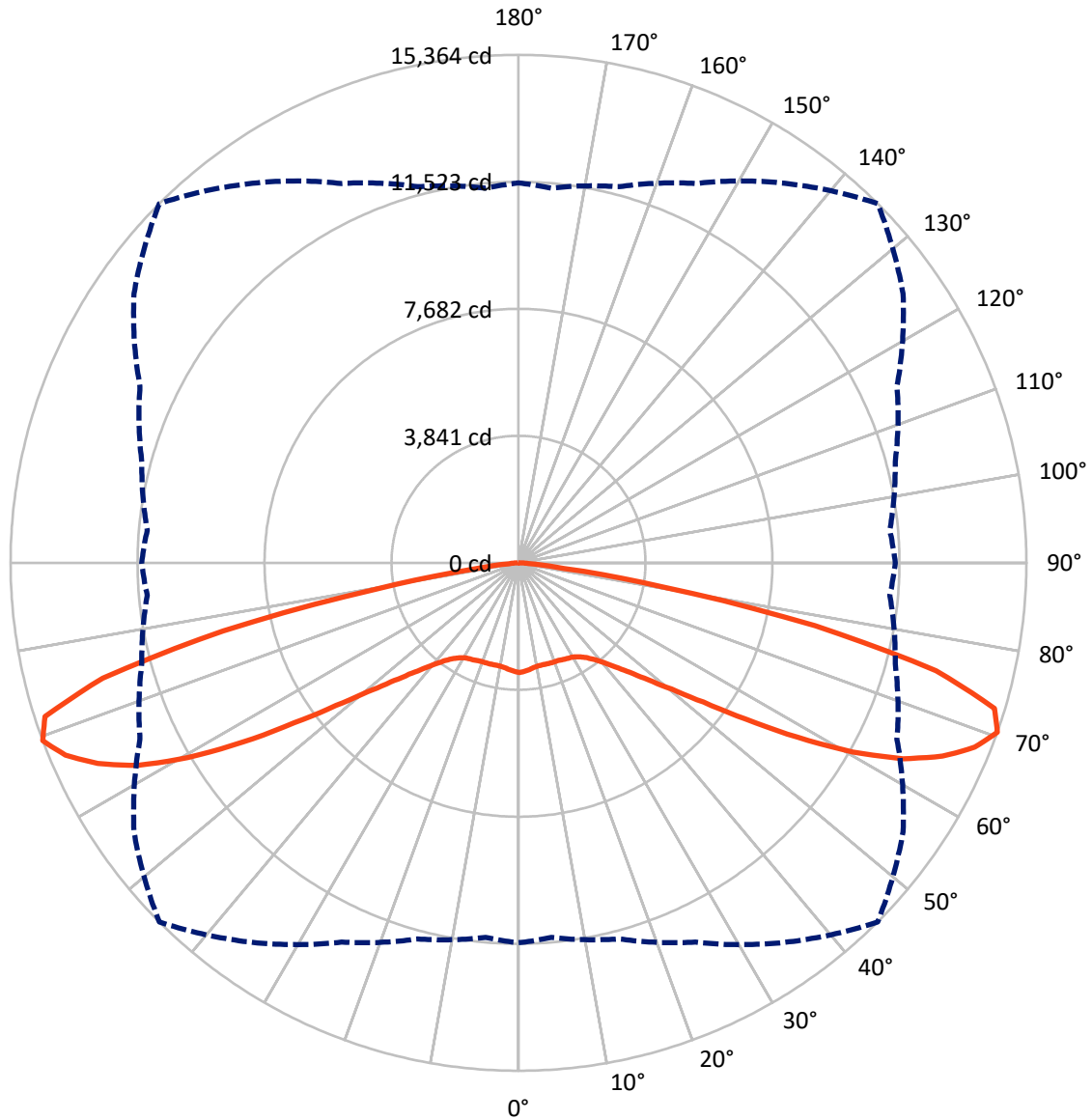
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

REPORT NUMBER: P968706
CATALOG NUMBER: NAV-SB5C-727-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P968706
 CATALOG NUMBER: NAV-SB5C-727-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18190.2	0.0	18190.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18190.2	0.0	18190.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	36380.3	0.0	36380.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.7	0.8
10°-20°	906.4	2.5
20°-30°	1508.5	4.1
30°-40°	2281.3	6.3
40°-50°	3790.9	10.4
50°-60°	7153.3	19.7
60°-70°	12078.6	33.2
70°-80°	7936.9	21.8
80°-90°	415.8	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°	36380.3	100.0
0°-180°	36380.3	100.0

Coefficient of Utilization

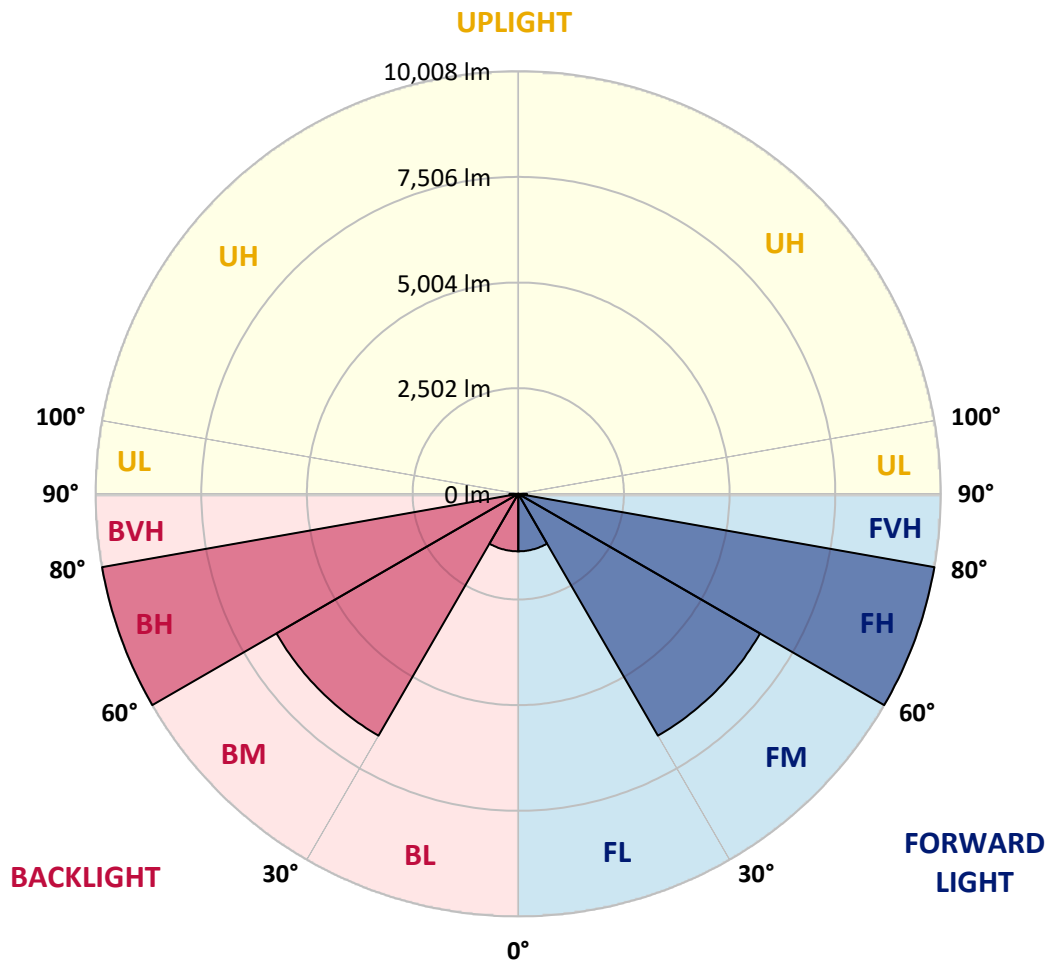


REPORT NUMBER: P968706
 CATALOG NUMBER: NAV-SB5C-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1361.8	3.7			
FM (30°-60°)	6612.7	18.2			
FH (60°-80°)	10007.7	27.5			G4/12000
FVH (80°-90°)	207.9	0.6			G2/225
BL (0°-30°)	1361.8	3.7	B3/2500		
BM (30°-60°)	6612.7	18.2	B4/8500		
BH (60°-80°)	10007.7	27.5	B5		G4/12000
BVH (80°-90°)	207.9	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



REPORT NUMBER: P968706
 CATALOG NUMBER: NAV-SB5C-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3318.6	3318.6	3318.6	3318.6	3318.6	3318.6	3318.6	3318.6	3318.6	3318.6	3318.6
2.5°	3297.8	3307.3	3303.5	3295.9	3295.9	3290.2	3295.9	3299.7	3305.4	3309.2	3307.3
5°	3254.4	3261.9	3260.0	3254.4	3256.2	3250.6	3254.4	3260.0	3263.8	3265.6	3265.6
7.5°	3216.6	3224.0	3220.2	3210.8	3210.8	3205.2	3207.0	3212.8	3218.4	3220.2	3220.2
10°	3207.0	3214.6	3203.2	3188.2	3182.4	3174.9	3176.8	3182.4	3193.8	3199.5	3199.5
12.5°	3210.8	3216.6	3205.2	3182.4	3176.8	3169.2	3169.2	3174.9	3190.0	3197.6	3199.5
15°	3222.2	3227.8	3210.8	3186.2	3180.6	3174.9	3173.0	3180.6	3197.6	3210.8	3212.8
17.5°	3243.0	3248.6	3222.2	3188.2	3180.6	3182.4	3180.6	3186.2	3212.8	3237.3	3237.3
20°	3261.9	3265.6	3229.8	3188.2	3180.6	3182.4	3180.6	3192.0	3226.0	3260.0	3261.9
22.5°	3267.6	3271.4	3237.3	3201.4	3195.7	3197.6	3195.7	3207.0	3239.2	3273.2	3273.2
25°	3269.4	3275.1	3248.6	3220.2	3229.8	3233.6	3229.8	3231.6	3256.2	3286.5	3284.6
27.5°	3297.8	3305.4	3280.8	3256.2	3261.9	3260.0	3265.6	3271.4	3290.2	3320.5	3312.9
30°	3356.5	3362.1	3341.3	3316.7	3312.9	3299.7	3316.7	3335.7	3356.5	3382.9	3377.3
32.5°	3452.9	3464.2	3437.7	3411.3	3394.3	3386.7	3399.9	3432.1	3460.4	3488.8	3477.4
35°	3613.6	3621.1	3596.6	3547.4	3517.2	3517.2	3528.6	3570.1	3615.5	3651.5	3638.2
37.5°	3840.5	3850.0	3806.4	3747.9	3702.5	3702.5	3717.6	3761.1	3829.2	3880.2	3861.3
40°	4116.6	4129.8	4075.0	4014.5	3971.0	3963.5	3982.3	4031.5	4095.8	4160.1	4139.3
42.5°	4449.4	4464.5	4392.6	4339.7	4305.7	4305.7	4315.1	4360.6	4419.2	4498.5	4492.9
45°	4874.9	4901.3	4803.0	4750.1	4718.0	4725.5	4731.2	4770.9	4823.9	4914.6	4910.8
47.5°	5381.7	5408.1	5304.1	5249.2	5243.6	5279.6	5256.8	5285.2	5313.6	5417.5	5387.3
50°	5956.5	6001.9	5930.0	5926.2	5937.6	6003.7	5950.8	5965.9	5933.8	5999.9	5960.3
52.5°	6659.9	6726.2	6712.8	6735.6	6862.3	6998.4	6877.3	6824.4	6703.4	6724.2	6654.3
55°	7512.7	7613.0	7631.8	7768.1	8055.5	8333.5	8076.3	7862.6	7605.4	7558.1	7484.3
57.5°	8482.8	8562.2	8652.9	8930.9	9468.0	9961.6	9468.0	8995.3	8590.6	8494.2	8426.1
60°	9526.7	9625.0	9711.9	10122.3	10920.2	11614.2	10905.1	10154.4	9619.2	9488.8	9375.4
62.5°	10647.9	10774.6	10835.2	11290.9	12221.2	13049.5	12234.4	11324.9	10731.1	10591.2	10477.8
65°	11723.8	11827.9	11895.9	12381.9	13270.7	14100.8	13331.2	12434.9	11824.1	11640.7	11549.9
67.5°	12225.0	12281.8	12448.1	12998.4	13936.3	14883.7	14095.2	13057.0	12374.4	12052.9	12056.7
70°	11491.3	11376.0	11776.8	12658.0	14015.7	15363.9	14197.3	12631.6	11795.7	11273.9	11398.6
72.5°	8879.9	8681.3	9377.2	10884.3	13108.1	15057.7	13198.8	10969.4	9810.3	8751.3	9014.2
75°	4831.3	4606.3	5567.0	7473.1	10453.2	13051.3	10693.3	7686.7	6198.6	4795.5	5107.5
77.5°	1363.4	1278.3	2053.6	3615.5	6287.5	9163.5	6529.5	3694.9	2435.5	1444.6	1605.5
80°	417.9	404.7	548.4	1089.2	2670.0	4388.8	2566.0	1102.4	697.7	440.5	465.1
82.5°	247.7	226.9	272.3	397.1	680.7	1378.5	661.8	414.1	332.8	223.1	242.0
85°	141.9	132.3	160.7	192.9	228.8	293.0	191.0	196.7	177.7	119.1	124.8
87.5°	58.6	53.0	62.4	60.5	53.0	68.1	51.0	60.5	71.9	47.3	43.5
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)