

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: P885272

Luminaire Tested: **NAV-SB6C-727-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885272
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-727-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 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: 41669 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

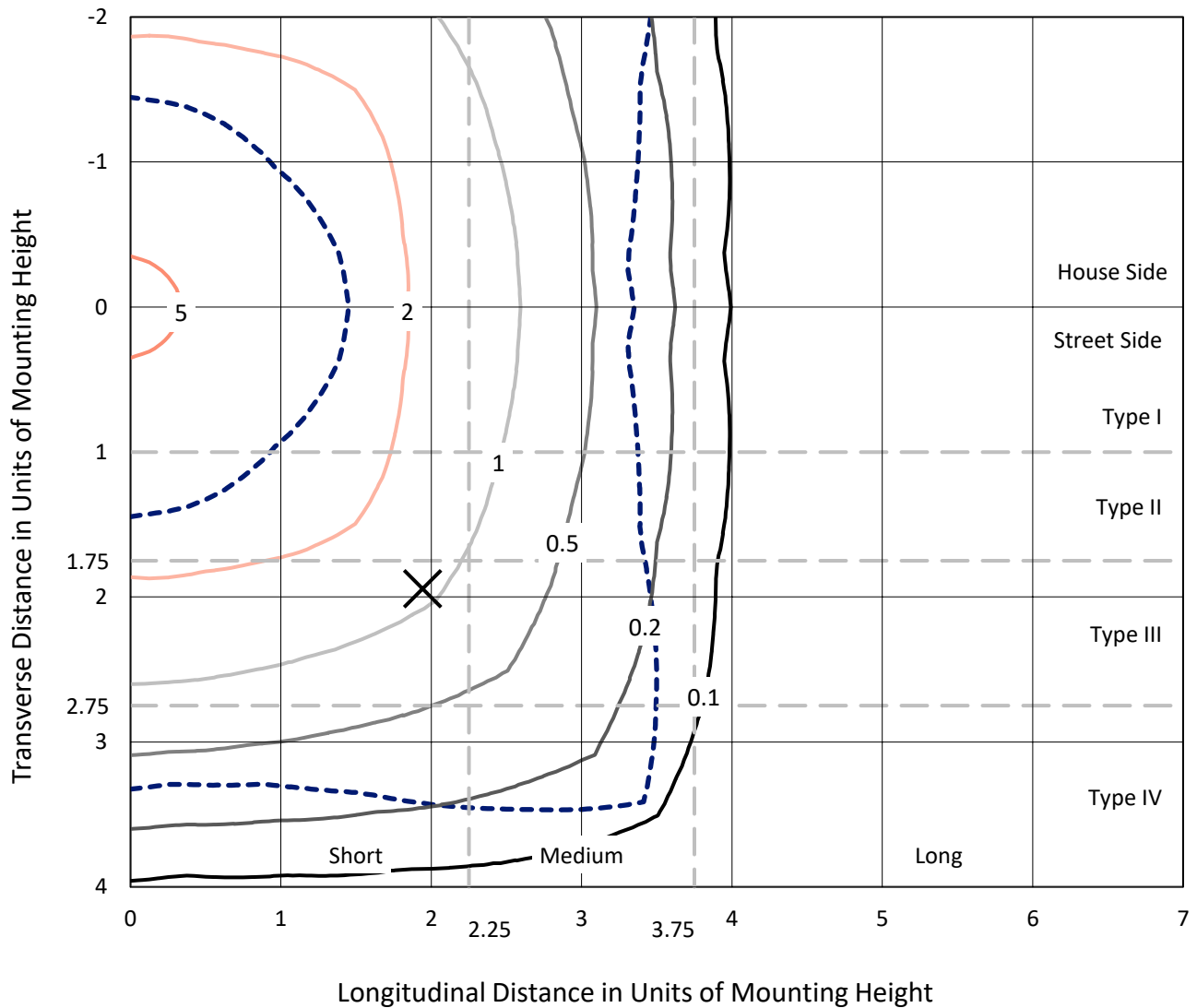
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

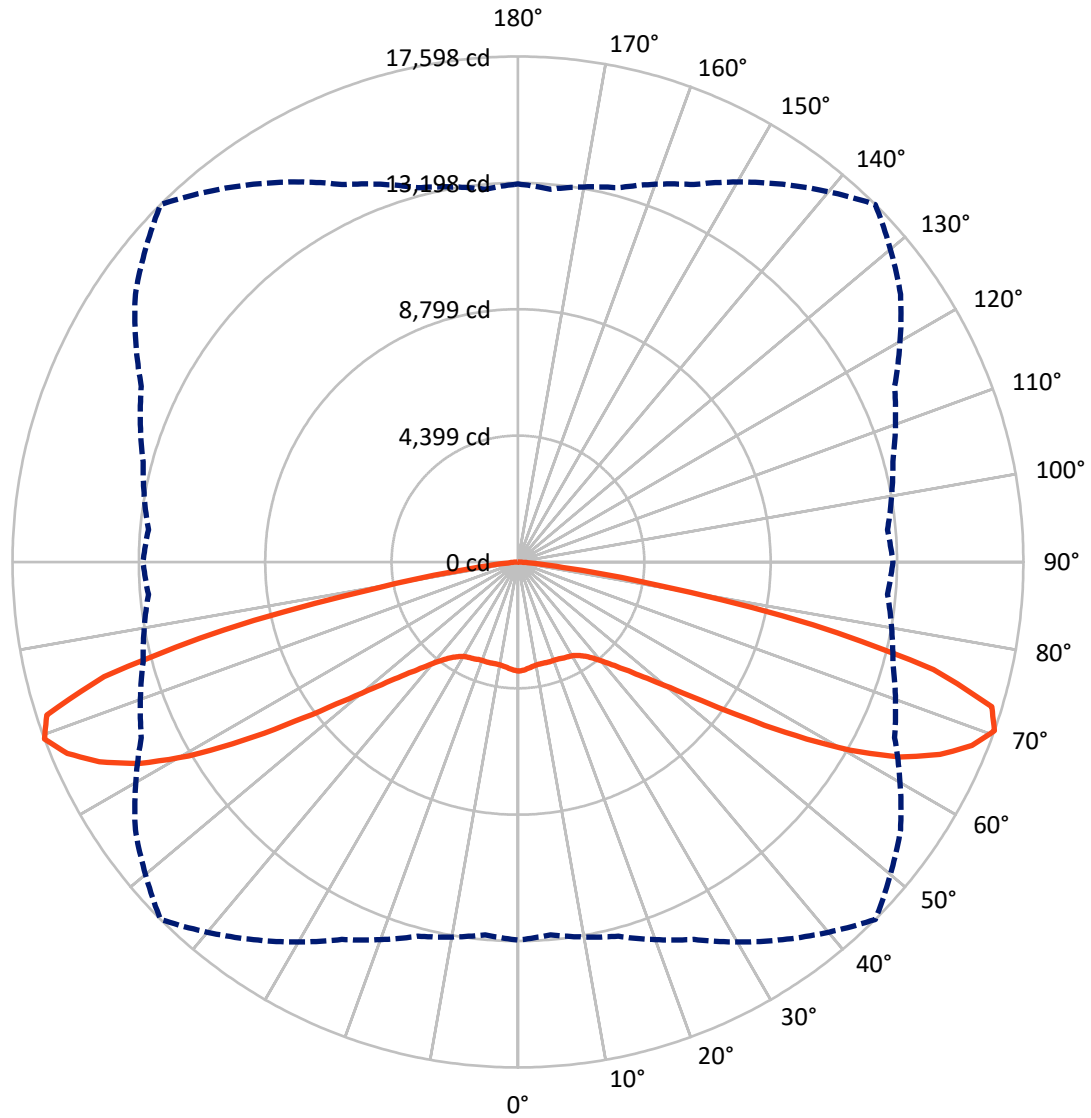
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	20834.5	0.0	20834.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20834.5	0.0	20834.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41669.0	0.0	41669.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.6	0.8
10°-20°	1038.2	2.5
20°-30°	1727.7	4.1
30°-40°	2612.9	6.3
40°-50°	4342.0	10.4
50°-60°	8193.2	19.7
60°-70°	13834.5	33.2
70°-80°	9090.7	21.8
80°-90°	476.3	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°	41669.0	100.0
0°-180°	41669.0	100.0



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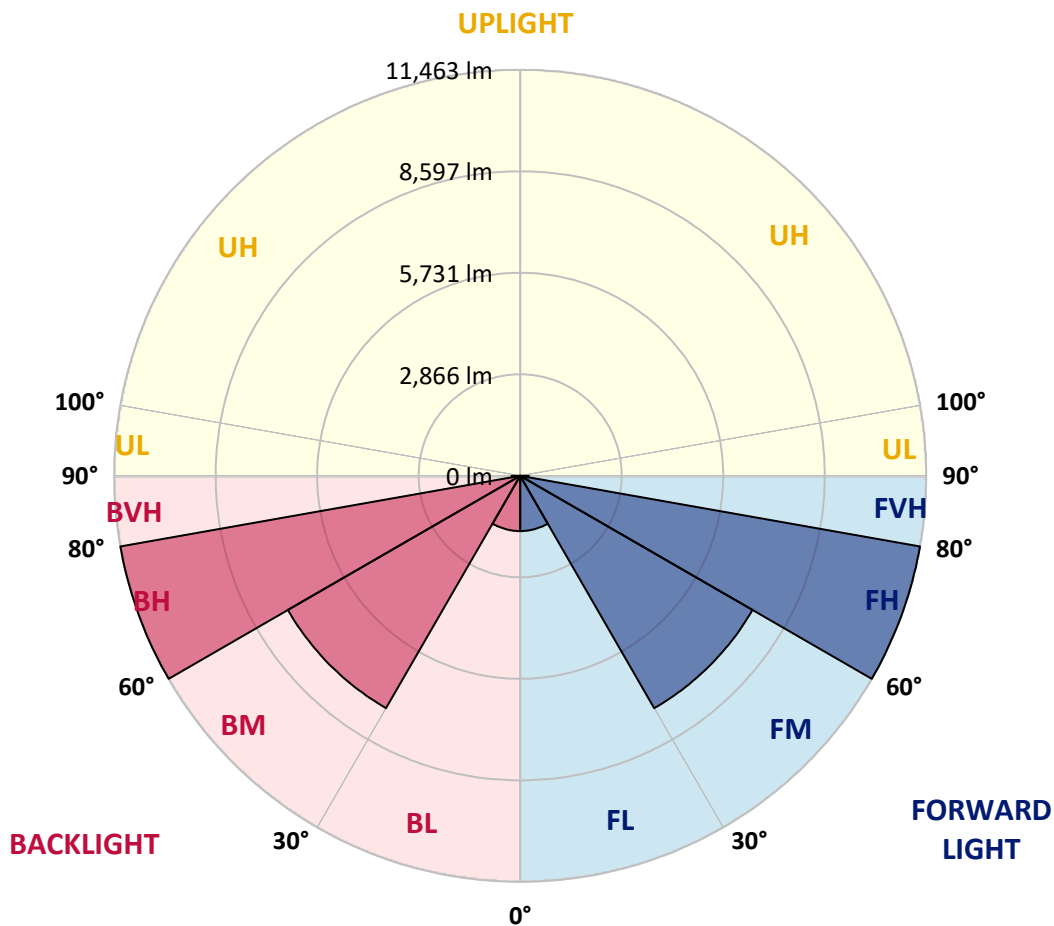
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.8	3.7			
FM (30°-60°)	7574.0	18.2			
FH (60°-80°)	11462.6	27.5			G4/12000
FVH (80°-90°)	238.1	0.6			G3/500
BL (0°-30°)	1559.8	3.7	B3/2500		
BM (30°-60°)	7574.0	18.2	B4/8500		
BH (60°-80°)	11462.6	27.5	B5		G4/12000
BVH (80°-90°)	238.1	0.6			G3/500
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°	3801.1	3801.1	3801.1	3801.1	3801.1	3801.1	3801.1	3801.1	3801.1	3801.1	3801.1
2.5°	3777.2	3788.1	3783.7	3775.1	3775.1	3768.6	3775.1	3779.4	3785.9	3790.2	3788.1
5°	3727.4	3736.1	3733.9	3727.4	3729.6	3723.1	3727.4	3733.9	3738.2	3740.4	3740.4
7.5°	3684.1	3692.8	3688.4	3677.6	3677.6	3671.1	3673.3	3679.8	3686.3	3688.4	3688.4
10°	3673.3	3681.9	3668.9	3651.6	3645.1	3636.4	3638.6	3645.1	3658.1	3664.6	3664.6
12.5°	3677.6	3684.1	3671.1	3645.1	3638.6	3630.0	3630.0	3636.4	3653.8	3662.4	3664.6
15°	3690.6	3697.1	3677.6	3649.4	3642.9	3636.4	3634.3	3642.9	3662.4	3677.6	3679.8
17.5°	3714.4	3720.9	3690.6	3651.6	3642.9	3645.1	3642.9	3649.4	3679.8	3707.9	3707.9
20°	3736.1	3740.4	3699.3	3651.6	3642.9	3645.1	3642.9	3655.9	3694.9	3733.9	3736.1
22.5°	3742.6	3746.9	3707.9	3666.8	3660.3	3662.4	3660.3	3673.3	3710.1	3749.1	3749.1
25°	3744.7	3751.2	3720.9	3688.4	3699.3	3703.6	3699.3	3701.4	3729.6	3764.2	3762.1
27.5°	3777.2	3785.9	3757.7	3729.6	3736.1	3733.9	3740.4	3746.9	3768.6	3803.2	3794.6
30°	3844.4	3850.9	3827.0	3798.9	3794.6	3779.4	3798.9	3820.5	3844.4	3874.7	3868.2
32.5°	3954.8	3967.8	3937.5	3907.2	3887.7	3879.0	3894.2	3931.0	3963.5	3996.0	3983.0
35°	4138.9	4147.6	4119.4	4063.1	4028.5	4028.5	4041.5	4089.1	4141.1	4182.2	4167.1
37.5°	4398.8	4409.7	4359.8	4292.7	4240.7	4240.7	4258.0	4307.9	4385.8	4444.3	4422.6
40°	4715.0	4730.2	4667.4	4598.1	4548.3	4539.6	4561.3	4617.6	4691.2	4764.9	4741.0
42.5°	5096.2	5113.6	5031.2	4970.6	4931.6	4931.6	4942.5	4994.4	5061.6	5152.5	5146.0
45°	5583.5	5613.9	5501.2	5440.6	5403.8	5412.4	5418.9	5464.4	5525.1	5629.0	5624.7
47.5°	6164.0	6194.3	6075.2	6012.4	6005.9	6047.0	6021.0	6053.5	6086.0	6205.1	6170.5
50°	6822.4	6874.4	6792.1	6787.7	6800.7	6876.5	6815.9	6833.2	6796.4	6872.2	6826.7
52.5°	7628.1	7703.9	7688.7	7714.7	7859.8	8015.8	7877.2	7816.5	7677.9	7701.7	7621.6
55°	8604.9	8719.7	8741.3	8897.3	9226.5	9544.9	9250.3	9005.6	8711.0	8656.9	8572.4
57.5°	9716.0	9806.9	9910.9	10229.3	10844.4	11409.7	10844.4	10302.9	9839.4	9729.0	9651.0
60°	10911.5	11024.1	11123.8	11593.7	12507.7	13302.6	12490.4	11630.6	11017.6	10868.2	10738.2
62.5°	12195.9	12341.0	12410.3	12932.2	13997.8	14946.5	14013.0	12971.2	12291.2	12130.9	12000.9
65°	13428.2	13547.3	13625.3	14181.9	15199.9	16150.7	15269.2	14242.6	13543.0	13332.9	13229.0
67.5°	14002.2	14067.1	14257.7	14888.0	15962.3	17047.3	16144.2	14955.1	14173.3	13805.1	13809.4
70°	13161.8	13029.7	13488.9	14498.1	16053.2	17597.5	16261.1	14467.8	13510.5	12912.7	13055.7
72.5°	10170.8	9943.4	10740.4	12466.6	15013.6	17246.6	15117.6	12564.0	11236.4	10023.5	10324.6
75°	5533.7	5276.0	6376.2	8559.4	11972.8	14948.6	12247.8	8804.1	7099.6	5492.6	5849.9
77.5°	1561.6	1464.1	2352.1	4141.1	7201.4	10495.7	7478.7	4232.1	2789.6	1654.7	1838.8
80°	478.7	463.5	628.1	1247.5	3058.2	5026.9	2939.0	1262.7	799.2	504.6	532.8
82.5°	283.7	259.9	311.9	454.8	779.7	1578.9	758.0	474.3	381.2	255.6	277.2
85°	162.4	151.6	184.1	220.9	262.1	335.7	218.7	225.2	203.6	136.4	142.9
87.5°	67.1	60.6	71.5	69.3	60.6	78.0	58.5	69.3	82.3	54.1	49.8
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)