

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: P971031

Luminaire Tested: **NAV-SB6C-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971031
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-SB6C-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42308.9 lumens
Efficiency: N/A
Efficacy: 140.6 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): 300.9
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



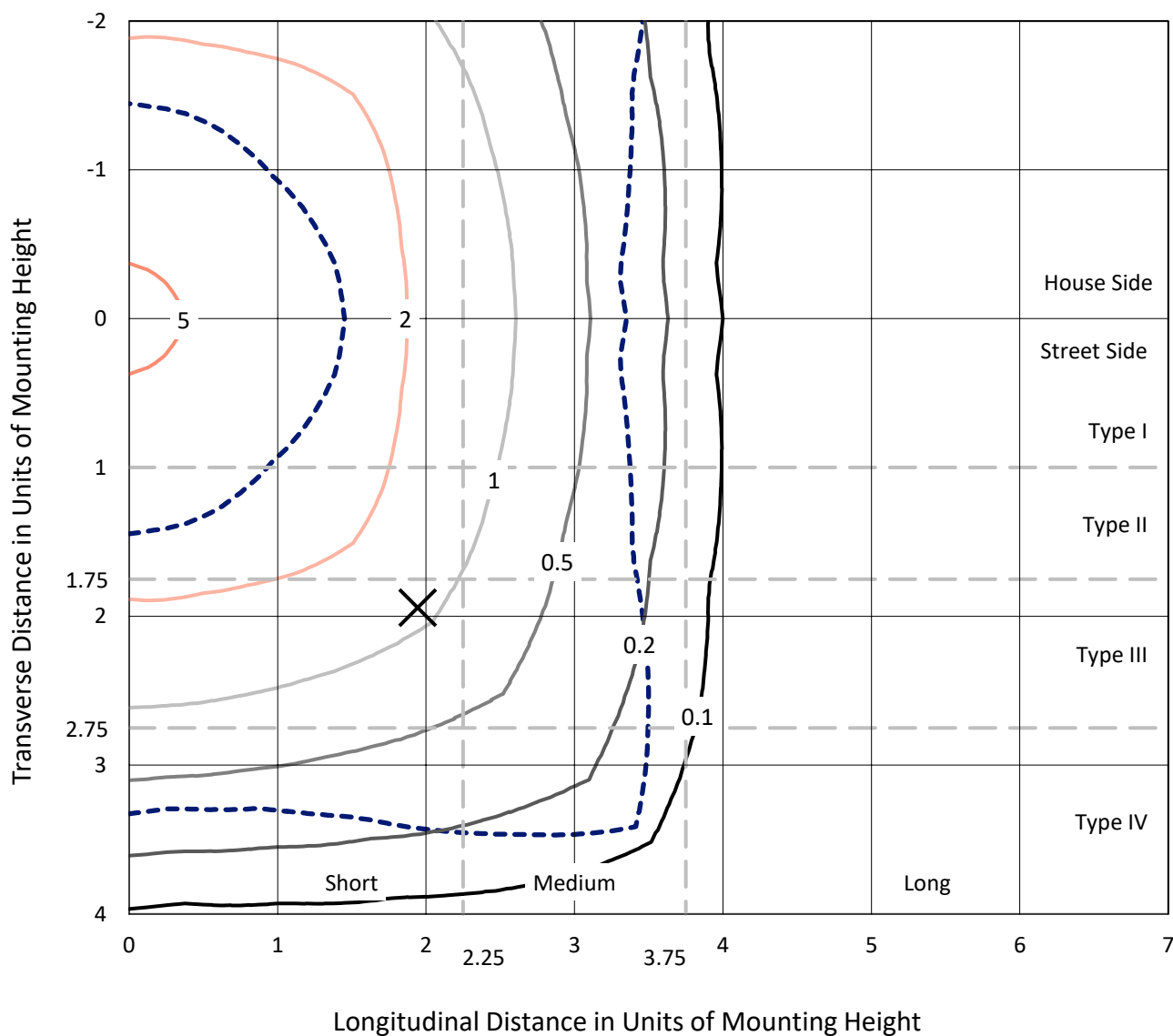
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

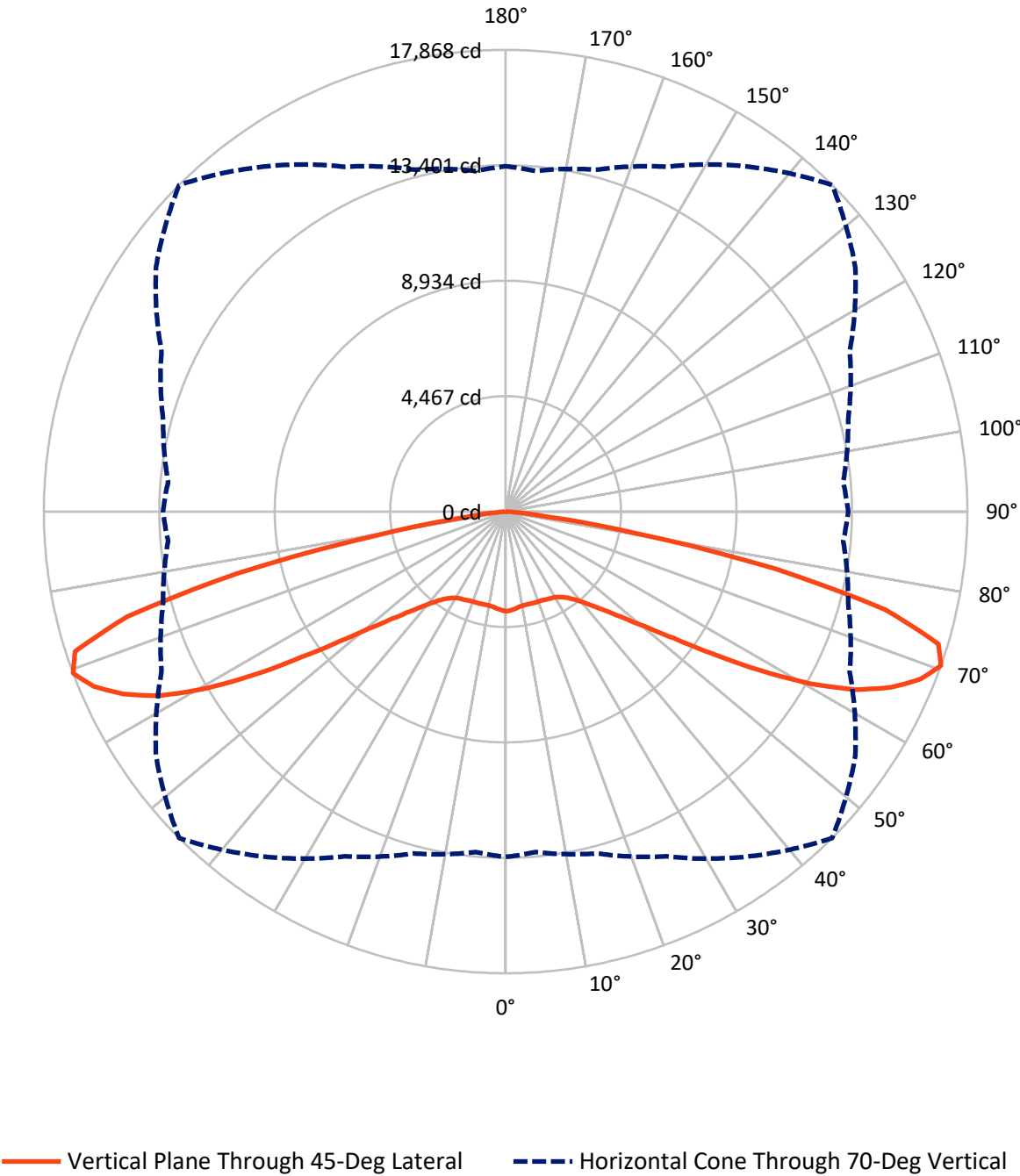


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21154.5	0.0	21154.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21154.5	0.0	21154.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	42308.9	0.0	42308.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	0.8
10°-20°	1054.2	2.5
20°-30°	1754.3	4.1
30°-40°	2653.0	6.3
40°-50°	4408.7	10.4
50°-60°	8319.0	19.7
60°-70°	14046.9	33.2
70°-80°	9230.3	21.8
80°-90°	483.6	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°	42308.9	100.0
0°-180°	42308.9	100.0

Coefficient of Utilization



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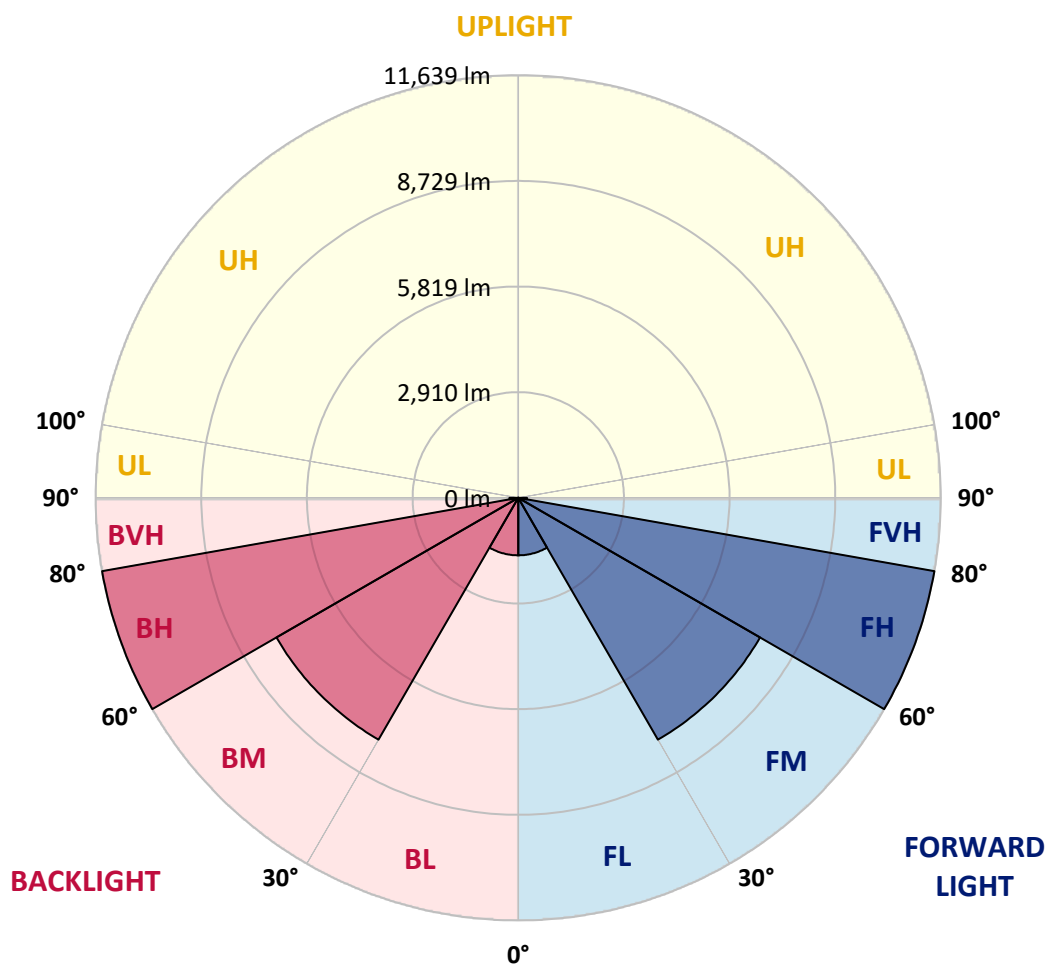
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1583.7	3.7			
FM	(30°-60°)	7690.3	18.2			
FH	(60°-80°)	11638.6	27.5			G4/12000
FVH	(80°-90°)	241.8	0.6			G3/500
BL	(0°-30°)	1583.7	3.7	B3/2500		
BM	(30°-60°)	7690.3	18.2	B4/8500		
BH	(60°-80°)	11638.6	27.5	B5		G4/12000
BVH	(80°-90°)	241.8	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°	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4
2.5°	3835.2	3846.2	3841.8	3833.0	3833.0	3826.4	3833.0	3837.4	3844.1	3848.5	3846.2
5°	3784.6	3793.4	3791.3	3784.6	3786.9	3780.3	3784.6	3791.3	3795.7	3797.8	3797.8
7.5°	3740.6	3749.4	3745.0	3734.1	3734.1	3727.5	3729.7	3736.2	3742.9	3745.0	3745.0
10°	3729.7	3738.5	3725.3	3707.7	3701.1	3692.3	3694.5	3701.1	3714.3	3720.9	3720.9
12.5°	3734.1	3740.6	3727.5	3701.1	3694.5	3685.7	3685.7	3692.3	3709.9	3718.7	3720.9
15°	3747.3	3753.9	3734.1	3705.5	3698.9	3692.3	3690.1	3698.9	3718.7	3734.1	3736.2
17.5°	3771.5	3778.0	3747.3	3707.7	3698.9	3701.1	3698.9	3705.5	3736.2	3764.8	3764.8
20°	3793.4	3797.8	3756.1	3707.7	3698.9	3701.1	3698.9	3712.0	3751.7	3791.3	3793.4
22.5°	3800.1	3804.5	3764.8	3723.1	3716.4	3718.7	3716.4	3729.7	3767.1	3806.6	3806.6
25°	3802.2	3808.8	3778.0	3745.0	3756.1	3760.4	3756.1	3758.3	3786.9	3822.0	3819.9
27.5°	3835.2	3844.1	3815.5	3786.9	3793.4	3791.3	3797.8	3804.5	3826.4	3861.6	3852.9
30°	3903.4	3910.0	3885.8	3857.2	3852.9	3837.4	3857.2	3879.2	3903.4	3934.2	3927.6
32.5°	4015.5	4028.8	3998.0	3967.2	3947.4	3938.6	3953.9	3991.3	4024.4	4057.4	4044.1
35°	4202.5	4211.3	4182.7	4125.5	4090.4	4090.4	4103.5	4151.9	4204.7	4246.5	4231.1
37.5°	4466.3	4477.4	4426.8	4358.6	4305.8	4305.8	4323.4	4374.0	4453.2	4512.6	4490.5
40°	4787.5	4802.8	4739.1	4668.7	4618.1	4609.3	4631.4	4688.5	4763.3	4838.0	4813.8
42.5°	5174.5	5192.0	5108.5	5046.9	5007.3	5007.3	5018.4	5071.1	5139.3	5231.7	5225.0
45°	5669.3	5700.0	5585.7	5524.1	5486.7	5495.5	5502.2	5548.3	5609.9	5715.5	5711.1
47.5°	6258.6	6289.4	6168.4	6104.7	6098.1	6139.9	6113.5	6146.5	6179.5	6300.5	6265.2
50°	6927.2	6979.9	6896.4	6892.0	6905.2	6982.2	6920.6	6938.1	6900.8	6977.8	6931.6
52.5°	7745.2	7822.2	7806.8	7833.3	7980.5	8138.9	7998.2	7936.6	7795.8	7820.0	7738.6
55°	8737.0	8853.5	8875.6	9033.9	9368.2	9691.5	9392.4	9143.8	8844.8	8789.8	8704.1
57.5°	9865.2	9957.6	10063.1	10386.3	11011.0	11584.9	11011.0	10461.2	9990.6	9878.3	9799.2
60°	11079.1	11193.4	11294.6	11771.8	12699.9	13506.9	12682.2	11809.2	11186.8	11035.2	10903.1
62.5°	12383.1	12530.5	12600.8	13130.9	14212.8	15176.0	14228.2	13170.4	12479.9	12317.2	12185.2
65°	13634.4	13755.4	13834.5	14399.7	15433.3	16398.7	15503.6	14461.3	13751.0	13537.7	13432.1
67.5°	14217.2	14283.2	14476.7	15116.6	16207.4	17309.2	16392.1	15184.8	14390.9	14017.1	14021.5
70°	13364.0	13229.8	13696.0	14720.8	16299.8	17867.7	16510.9	14690.0	13718.0	13111.1	13256.2
72.5°	10327.0	10096.0	10905.4	12658.0	15244.2	17511.4	15349.8	12757.0	11409.0	10177.4	10483.1
75°	5618.7	5357.1	6474.2	8690.9	12156.6	15178.2	12435.9	8939.3	7208.6	5576.9	5939.8
77.5°	1585.6	1486.6	2388.2	4204.7	7312.0	10656.8	7593.5	4297.0	2832.5	1680.1	1867.0
80°	486.0	470.6	637.8	1266.7	3105.1	5104.1	2984.2	1282.1	811.5	512.4	541.0
82.5°	288.1	263.9	316.6	461.8	791.7	1603.1	769.7	481.6	387.0	259.5	281.5
85°	164.9	154.0	187.0	224.3	266.1	340.8	222.1	228.7	206.7	138.6	145.1
87.5°	68.2	61.6	72.6	70.4	61.6	79.1	59.3	70.4	83.5	54.9	50.5
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)