

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: P970502

Luminaire Tested: **NAV-SB6B-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-830-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32936.3 lumens
Efficiency: N/A
Efficacy: 149.4 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): 220.4
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

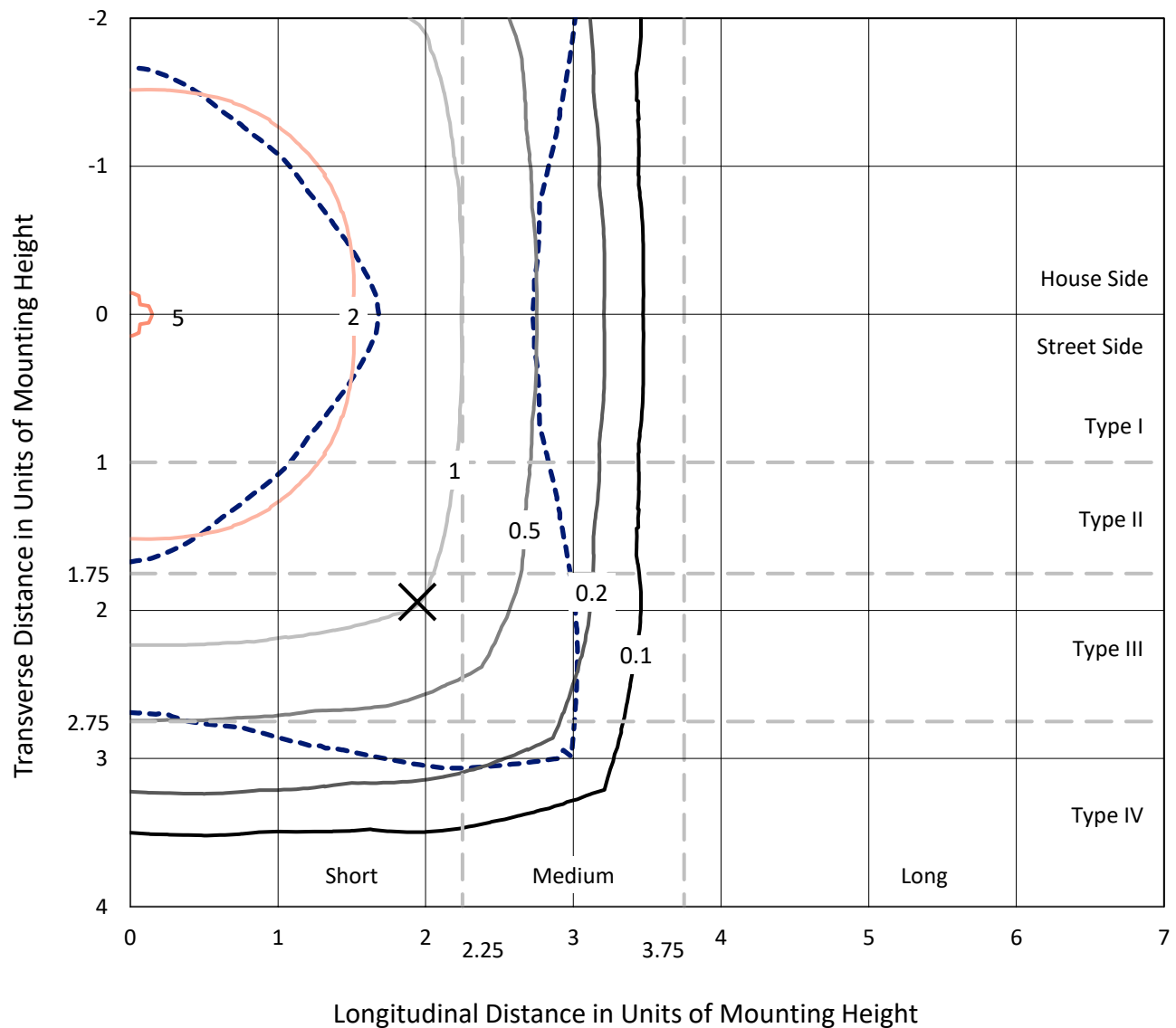


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Iso-Footcandle Lines of Horizontal Illumination

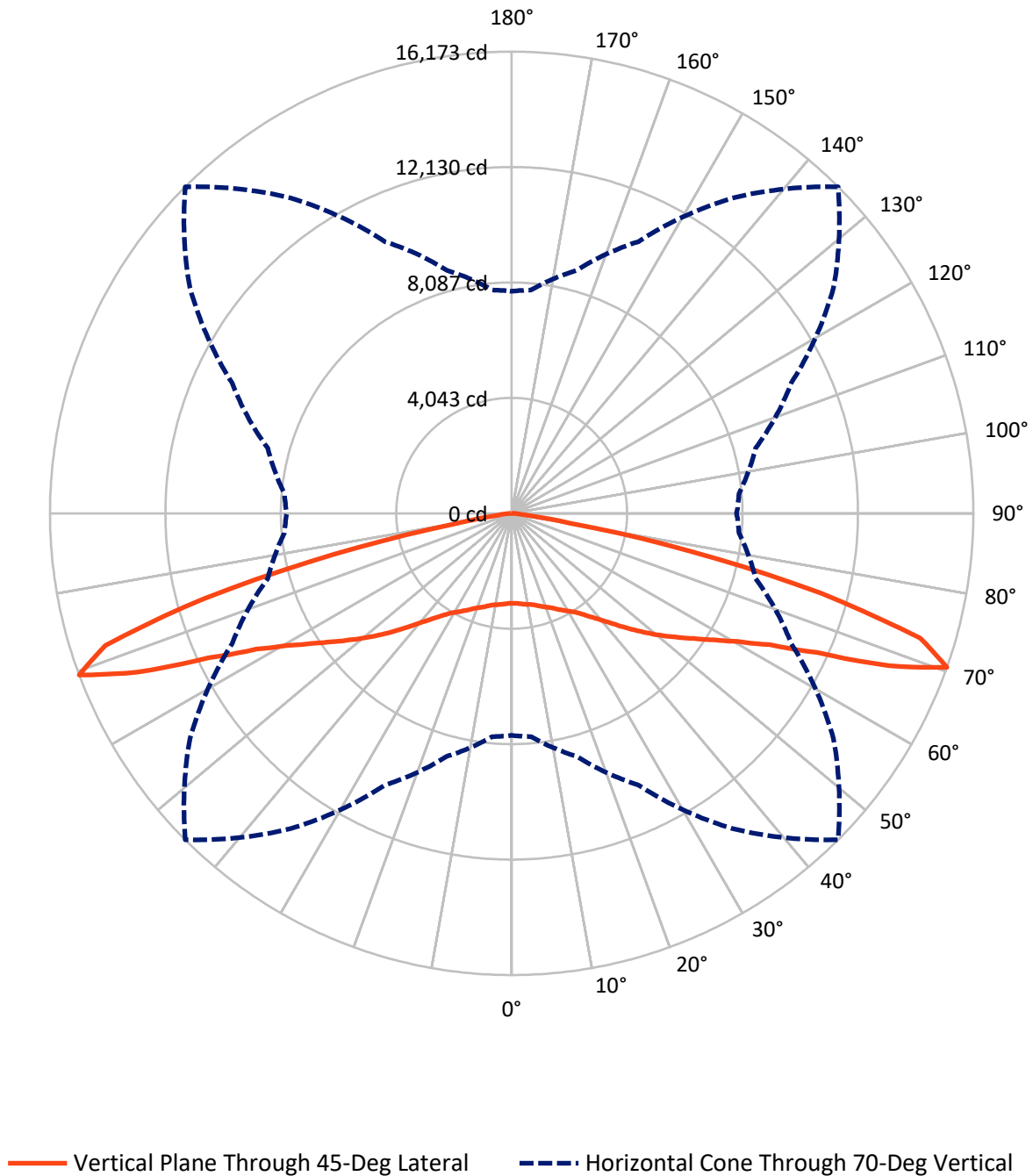
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	16468.2	0.0	16468.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16468.2	0.0	16468.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	32936.3	0.0	32936.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.5	0.9
10°-20°	950.4	2.9
20°-30°	1698.5	5.2
30°-40°	2753.3	8.4
40°-50°	4484.7	13.6
50°-60°	6837.6	20.8
60°-70°	10172.2	30.9
70°-80°	5544.2	16.8
80°-90°	188.8	0.6
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°	32936.3	100.0
0°-180°	32936.3	100.0

Coefficient of Utilization



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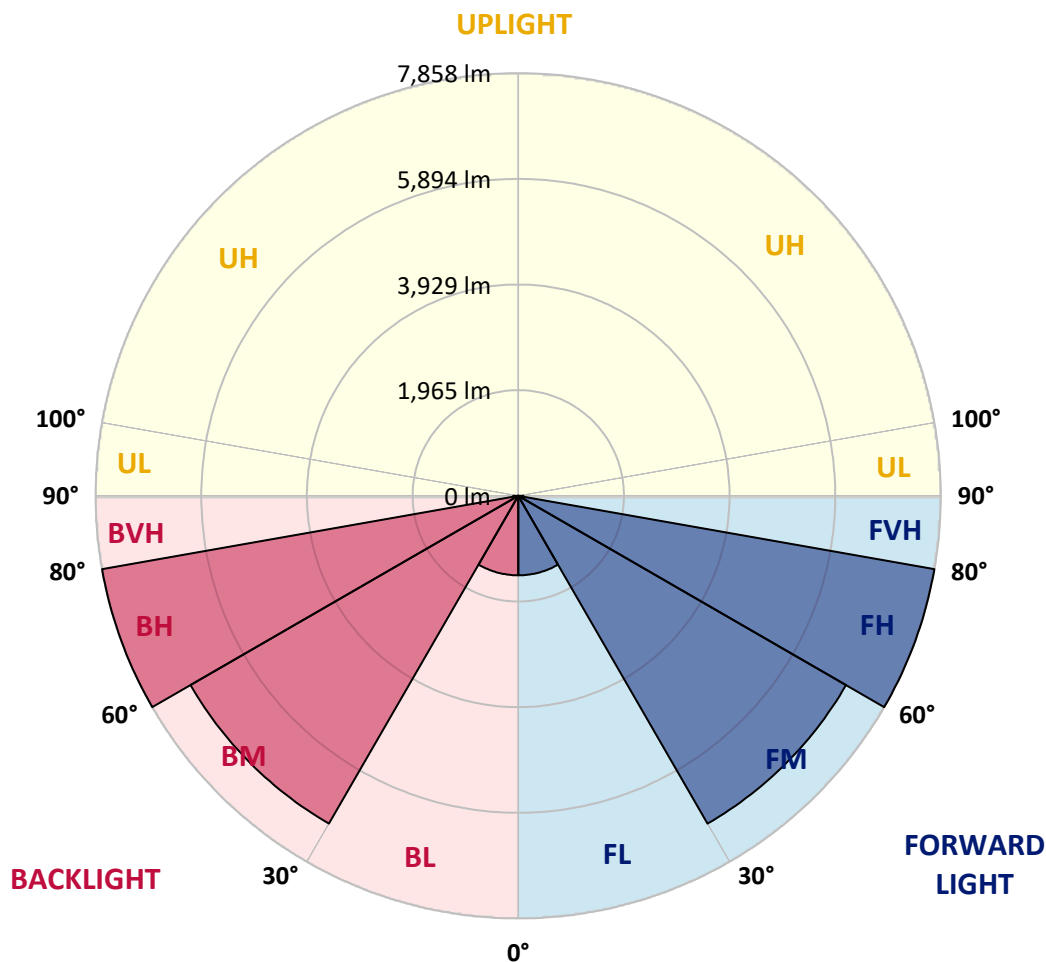
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1477.7	4.5			
FM	(30°-60°)	7037.8	21.4			
FH	(60°-80°)	7858.2	23.9			G4/12000
FVH	(80°-90°)	94.4	0.3			G1/100
BL	(0°-30°)	1477.7	4.5	B3/2500		
BM	(30°-60°)	7037.8	21.4	B4/8500		
BH	(60°-80°)	7858.2	23.9	B5		G4/12000
BVH	(80°-90°)	94.4	0.3			G1/100
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°	3155.0	3155.0	3155.0	3155.0	3155.0	3155.0	3155.0	3155.0	3155.0	3155.0	3155.0
2.5°	3169.8	3173.2	3166.5	3163.3	3159.9	3155.0	3156.6	3164.9	3171.5	3169.8	3171.5
5°	3196.3	3199.6	3194.6	3193.0	3186.4	3184.7	3184.7	3193.0	3198.0	3194.6	3196.3
7.5°	3226.1	3231.0	3222.8	3221.1	3217.8	3214.5	3212.9	3221.1	3226.1	3226.1	3226.1
10°	3254.2	3259.1	3252.5	3247.5	3244.2	3244.2	3240.9	3247.5	3255.8	3254.2	3254.2
12.5°	3283.9	3287.3	3280.6	3277.3	3277.3	3282.3	3277.3	3280.6	3287.3	3283.9	3282.3
15°	3320.3	3321.9	3320.3	3325.3	3333.5	3350.1	3335.1	3331.9	3335.1	3326.9	3326.9
17.5°	3369.9	3373.3	3379.8	3391.4	3403.0	3432.7	3406.3	3398.1	3398.1	3381.5	3381.5
20°	3431.1	3436.1	3445.9	3465.8	3480.7	3508.8	3482.3	3470.8	3465.8	3444.3	3444.3
22.5°	3495.6	3503.9	3518.7	3545.2	3571.6	3598.1	3571.6	3551.8	3537.0	3508.8	3507.1
25°	3570.0	3579.9	3603.1	3646.0	3682.4	3720.4	3689.1	3649.4	3619.6	3579.9	3578.3
27.5°	3675.9	3687.4	3715.5	3768.4	3814.7	3847.7	3818.0	3766.8	3725.5	3677.5	3675.9
30°	3824.7	3836.3	3869.3	3925.5	3956.9	3978.4	3958.6	3918.9	3869.3	3814.7	3814.7
32.5°	4016.5	4031.3	4067.7	4120.6	4127.3	4130.5	4124.0	4104.1	4067.7	4001.6	4003.2
35°	4259.5	4276.1	4317.4	4360.3	4353.8	4360.3	4350.5	4343.8	4317.4	4241.3	4241.3
37.5°	4557.2	4577.0	4620.0	4653.1	4636.5	4628.3	4629.9	4631.6	4616.7	4532.3	4532.3
40°	4902.8	4929.2	4960.6	4995.3	4967.3	4942.4	4959.0	4972.2	4959.0	4873.0	4873.0
42.5°	5258.2	5296.3	5329.4	5379.0	5355.8	5324.4	5347.5	5362.4	5334.3	5241.7	5248.3
45°	5653.5	5689.9	5732.8	5807.2	5790.7	5757.6	5790.7	5794.0	5746.0	5636.9	5648.5
47.5°	6061.8	6099.9	6164.5	6263.6	6257.0	6220.6	6263.6	6240.5	6179.3	6048.6	6040.4
50°	6448.8	6501.8	6600.9	6739.9	6753.1	6708.4	6766.3	6721.6	6619.1	6455.4	6452.2
52.5°	6812.6	6868.8	7025.9	7214.4	7262.3	7204.5	7282.2	7204.5	7050.7	6840.7	6820.9
55°	7194.6	7257.4	7444.3	7690.6	7786.5	7743.6	7816.3	7698.9	7480.7	7225.9	7191.3
57.5°	7644.3	7682.4	7905.6	8198.3	8360.3	8370.3	8403.3	8204.9	7940.3	7650.9	7611.2
60°	8132.1	8185.0	8428.1	8778.6	9035.0	9117.7	9082.9	8788.6	8481.1	8148.6	8095.8
62.5°	8757.2	8815.0	9106.1	9526.0	9931.2	10136.2	10000.6	9574.0	9193.7	8795.2	8725.7
65°	9274.7	9339.2	9865.0	10614.1	11351.6	11763.3	11422.7	10637.2	9952.6	9390.4	9297.9
67.5°	8899.4	8978.7	9803.8	11179.6	13013.4	14242.0	13076.2	11348.3	10007.3	9245.0	9130.9
70°	7778.3	7852.6	8815.0	10496.7	13481.3	16173.3	13762.5	10805.9	8846.5	7993.3	7879.2
72.5°	5164.1	5403.8	6377.8	8395.1	12037.8	14966.2	12156.8	8224.7	5916.4	5152.5	4985.4
75°	1713.1	1904.9	2569.6	4352.2	8062.6	11192.8	7675.7	3851.1	2035.5	1465.0	1385.7
77.5°	431.5	497.7	686.2	1245.1	3216.1	6372.7	2895.3	1016.9	553.9	386.9	345.6
80°	210.0	231.4	330.7	415.0	805.2	2025.6	755.6	390.2	261.3	201.7	185.2
82.5°	115.7	117.4	186.9	234.8	299.3	524.2	310.9	228.2	150.5	122.4	122.4
85°	71.1	69.5	99.2	125.7	125.7	186.9	148.8	125.7	86.0	76.1	79.3
87.5°	28.1	28.1	36.4	39.7	34.7	48.0	38.0	41.3	33.1	31.5	33.1
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)