

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: P969980

Luminaire Tested: **NAV-SB6A-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

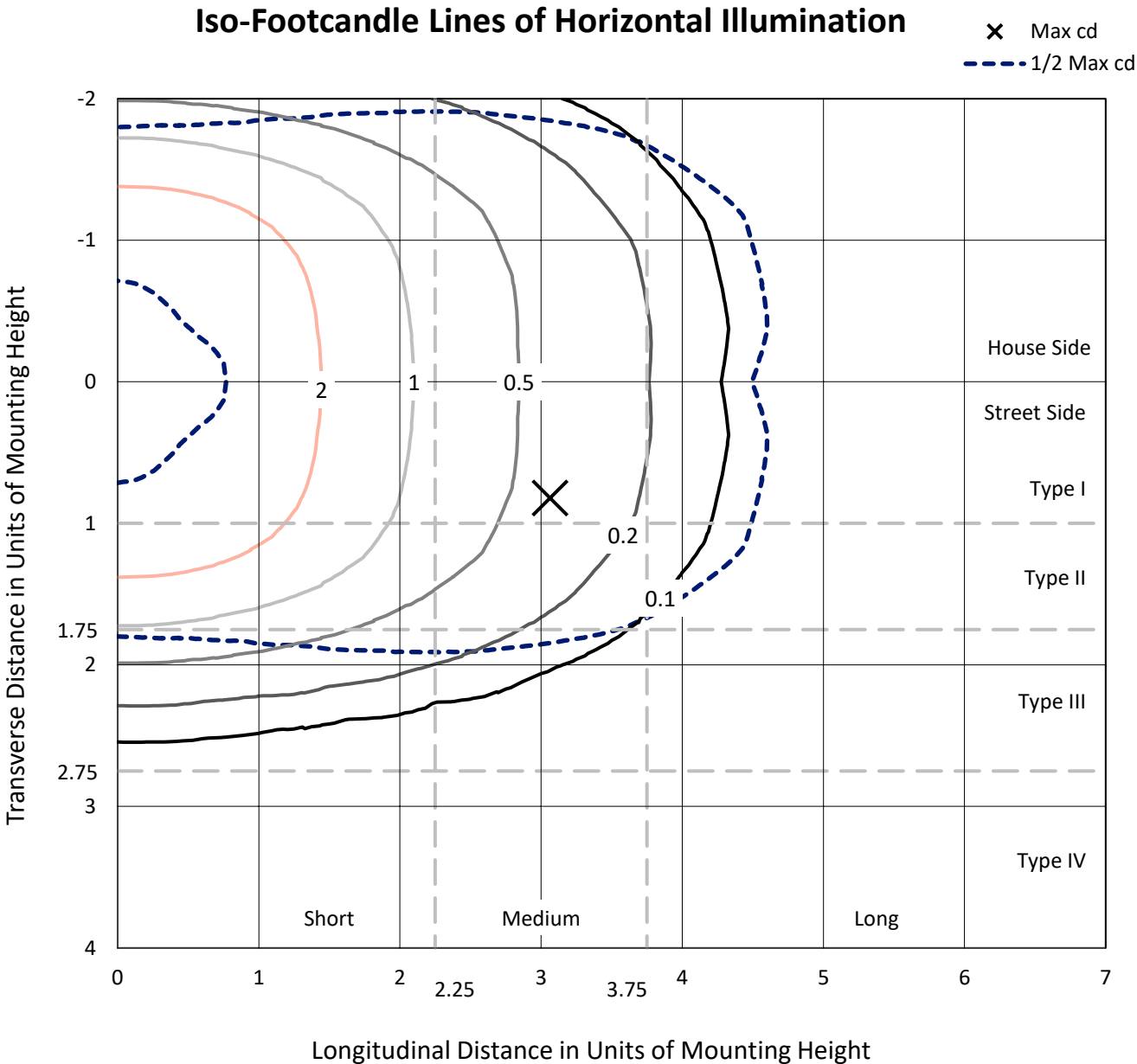
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25798.2 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 170.9
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



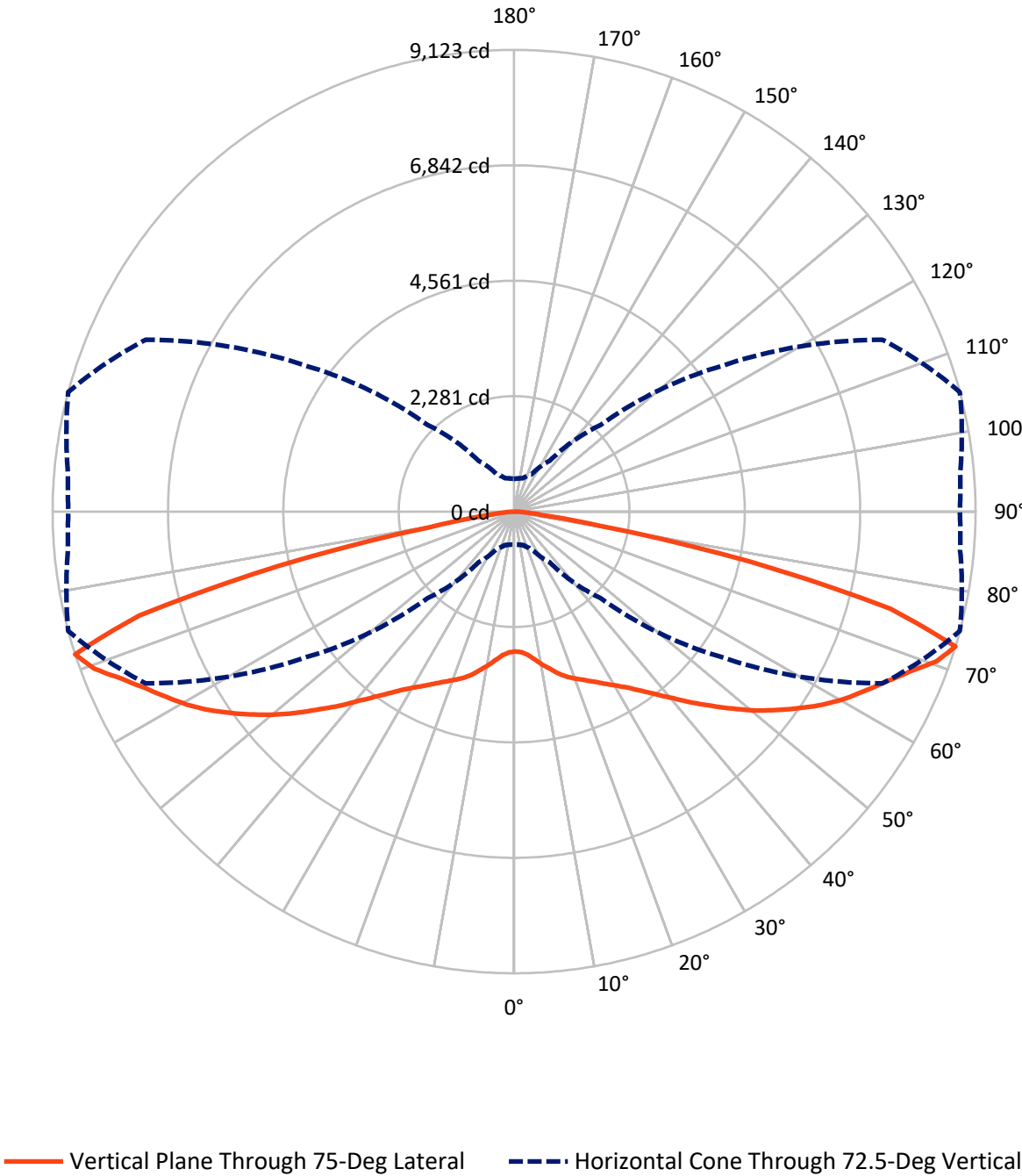
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Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12899.1	0.0	12899.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12899.1	0.0	12899.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	25798.2	0.0	25798.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.7	1.0
10°-20°	892.8	3.5
20°-30°	1725.2	6.7
30°-40°	2913.1	11.3
40°-50°	4619.9	17.9
50°-60°	6185.5	24.0
60°-70°	5886.6	22.8
70°-80°	3071.7	11.9
80°-90°	232.5	0.9
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°	25798.2	100.0
0°-180°	25798.2	100.0

Coefficient of Utilization



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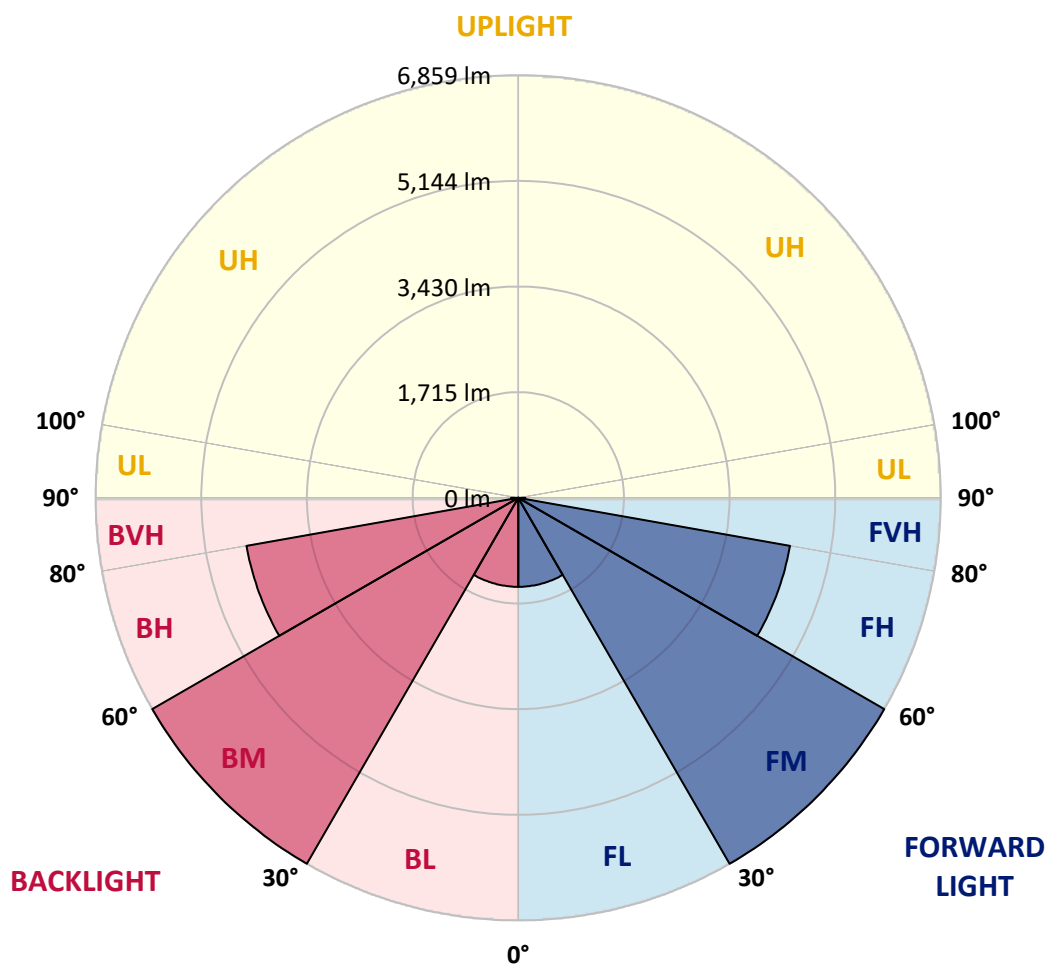
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1444.4	5.6			
FM	(30°-60°)	6859.3	26.6			
FH	(60°-80°)	4479.2	17.4			G2/5000
FVH	(80°-90°)	116.3	0.5			G2/225
BL	(0°-30°)	1444.4	5.6	B3/2500		
BM	(30°-60°)	6859.3	26.6	B4/8500		
BH	(60°-80°)	4479.2	17.4	B4/5000		G4/5000
BVH	(80°-90°)	116.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5	2763.5
2.5°	2763.5	2760.8	2763.5	2766.1	2764.7	2764.7	2771.4	2775.3	2783.2	2781.8	2780.6
5°	2745.1	2743.7	2754.3	2766.1	2775.3	2791.1	2810.9	2825.3	2843.8	2847.8	2847.8
7.5°	2735.8	2731.8	2750.3	2771.4	2800.3	2839.9	2878.1	2917.6	2949.1	2959.7	2962.4
10°	2742.4	2743.7	2768.7	2808.2	2854.3	2909.7	2963.7	3030.8	3075.6	3086.2	3096.7
12.5°	2772.6	2770.1	2812.2	2875.4	2938.7	3008.5	3071.7	3145.4	3194.2	3219.2	3229.8
15°	2828.0	2822.7	2882.0	2975.5	3067.7	3149.4	3200.8	3270.6	3327.3	3358.8	3370.7
17.5°	2893.9	2896.4	2974.2	3095.4	3216.6	3308.8	3357.5	3393.1	3436.5	3464.2	3477.4
20°	3009.8	3015.0	3102.0	3245.6	3383.8	3489.2	3528.8	3515.5	3527.4	3548.4	3564.3
22.5°	3165.2	3167.9	3265.3	3420.7	3565.7	3681.5	3707.8	3653.8	3620.9	3635.5	3645.9
25°	3345.6	3362.8	3460.2	3619.6	3768.4	3879.1	3891.0	3809.3	3727.6	3731.6	3738.2
27.5°	3565.7	3581.5	3680.3	3838.3	3989.7	4085.9	4084.6	3975.3	3855.4	3825.1	3834.3
30°	3804.0	3821.2	3922.6	4085.9	4226.8	4311.2	4292.7	4162.3	3991.0	3934.5	3941.0
32.5°	4087.2	4097.7	4200.4	4363.8	4494.2	4561.5	4523.2	4362.5	4149.1	4084.6	4100.4
35°	4429.6	4445.5	4521.9	4676.0	4790.6	4845.9	4781.4	4591.7	4351.9	4279.6	4290.0
37.5°	4820.9	4810.3	4897.2	5034.3	5129.1	5163.3	5075.1	4849.9	4583.8	4498.2	4514.0
40°	5229.2	5223.9	5318.8	5450.5	5501.9	5522.9	5392.5	5146.2	4851.2	4759.0	4789.3
42.5°	5599.4	5595.4	5723.2	5869.4	5931.3	5907.6	5743.0	5461.0	5160.8	5055.4	5081.7
45°	5895.7	5890.5	6047.2	6252.7	6373.9	6334.3	6113.1	5808.8	5474.2	5364.8	5390.0
47.5°	6123.6	6126.2	6294.8	6549.0	6761.1	6775.6	6491.1	6163.1	5819.3	5695.5	5732.4
50°	6288.3	6296.2	6476.6	6758.4	7048.2	7176.0	6877.0	6526.7	6176.2	6036.6	6078.8
52.5°	6329.1	6343.5	6560.9	6891.5	7232.7	7476.4	7269.5	6875.7	6514.8	6381.8	6416.0
55°	6111.8	6140.7	6416.0	6880.9	7346.0	7673.9	7614.6	7230.0	6855.9	6719.0	6757.1
57.5°	5612.5	5653.4	5974.7	6581.9	7320.9	7809.6	7882.0	7569.8	7197.1	7065.3	7095.7
60°	4913.1	4961.8	5270.0	5932.6	6968.0	7859.6	8070.3	7900.5	7510.6	7382.8	7410.4
62.5°	3858.0	3921.2	4290.0	5067.2	6222.4	7626.5	8231.1	8199.5	7792.5	7633.1	7651.5
65°	2475.0	2542.2	2930.8	3848.8	5227.9	6912.6	8281.2	8490.6	8090.1	7867.5	7895.2
67.5°	1492.4	1522.6	1714.9	2332.7	3821.2	5836.5	7857.0	8813.3	8437.9	8161.3	8182.4
70°	955.0	972.1	1086.7	1369.9	2160.2	4258.5	6805.9	8873.8	8859.4	8462.9	8460.2
72.5°	648.0	653.3	683.6	811.4	1222.3	2419.7	5019.8	8033.5	9122.8	8851.5	8809.4
75°	474.2	503.2	551.9	574.3	694.1	1209.2	2876.8	5644.2	7688.4	7806.9	7519.8
77.5°	353.0	354.3	421.5	447.8	495.3	644.1	1217.1	3150.7	4773.4	5011.8	4470.5
80°	299.0	283.2	281.9	360.9	372.8	401.7	544.0	1088.0	1709.7	1036.6	783.7
82.5°	249.0	231.9	209.4	281.9	254.2	246.3	235.7	442.6	544.0	267.4	227.9
85°	173.8	165.9	158.1	184.4	144.9	123.8	113.3	206.8	229.2	113.3	100.1
87.5°	75.0	77.7	79.0	81.7	60.6	43.5	43.5	57.9	57.9	44.8	32.9
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)