

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: P967883

Luminaire Tested: **NAV-SB5A-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20645.5 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

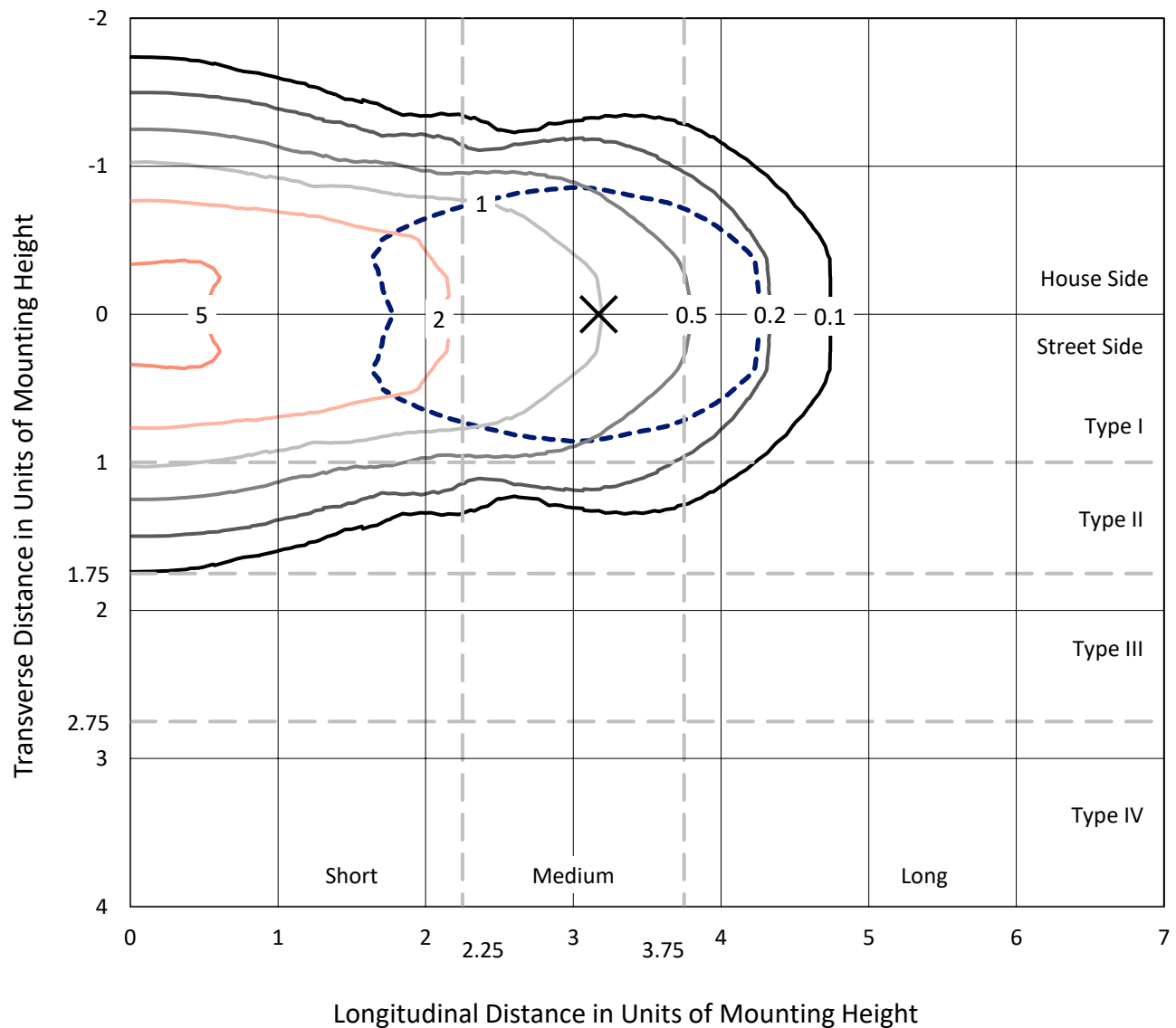
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

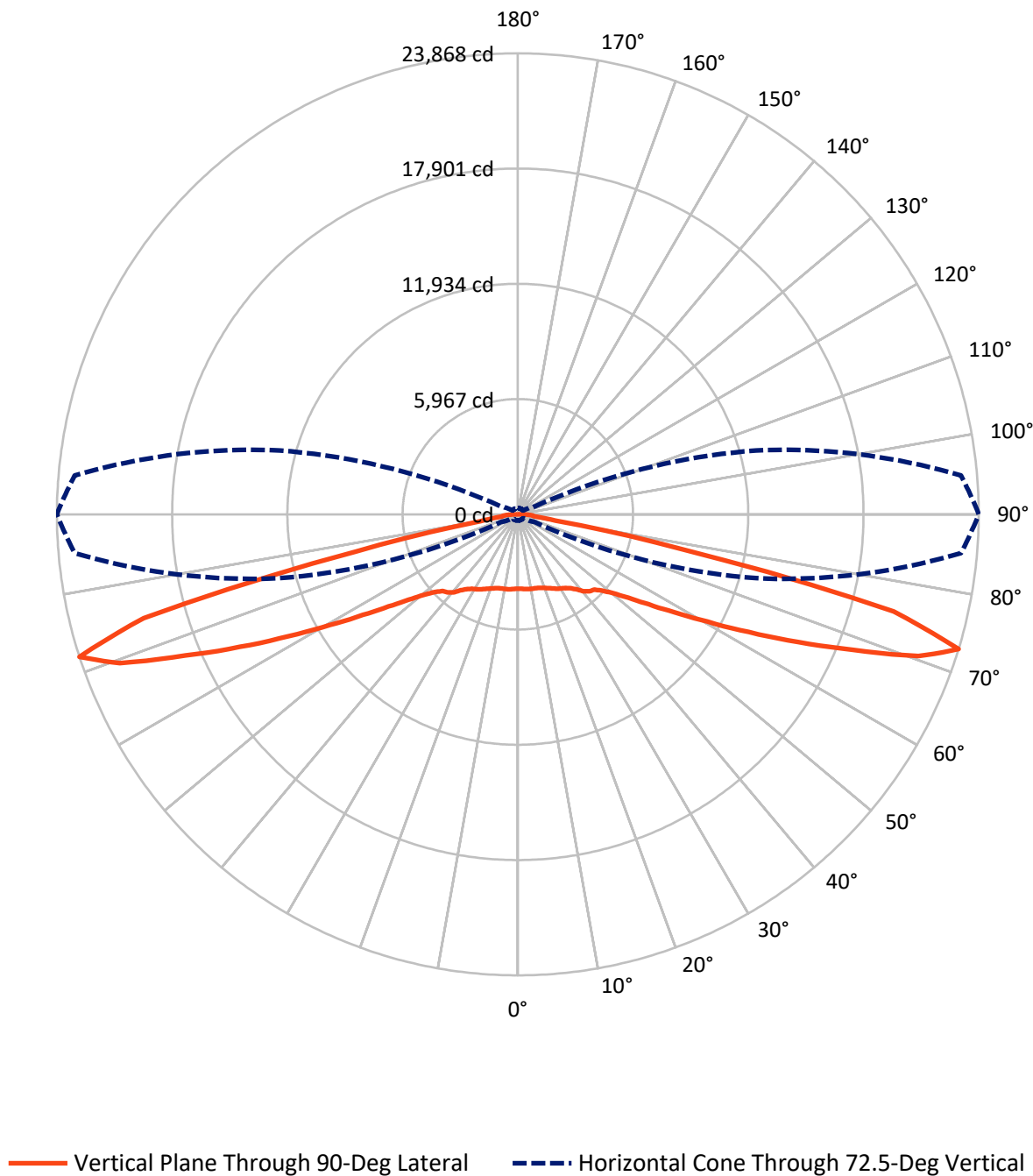
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10322.8	0.0	10322.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10322.8	0.0	10322.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	20645.5	0.0	20645.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.1	1.8
10°-20°	1143.7	5.5
20°-30°	1907.1	9.2
30°-40°	2622.8	12.7
40°-50°	3203.2	15.5
50°-60°	3704.8	17.9
60°-70°	4417.4	21.4
70°-80°	3083.1	14.9
80°-90°	189.4	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°	20645.5	100.0
0°-180°	20645.5	100.0

Coefficient of Utilization



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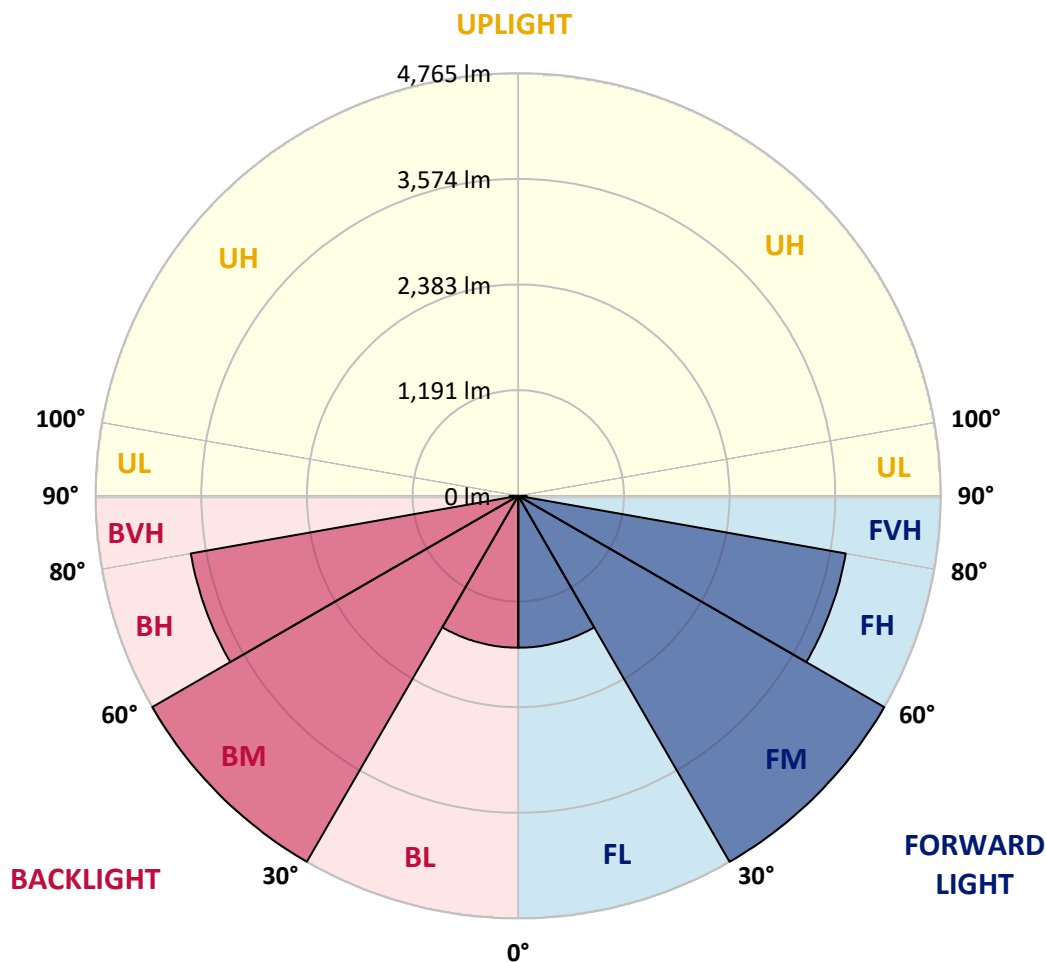
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1712.4	8.3			
FM	(30°-60°)	4765.4	23.1			
FH	(60°-80°)	3750.2	18.2			G2/5000
FVH	(80°-90°)	94.7	0.5			G1/100
BL	(0°-30°)	1712.4	8.3	B3/2500		
BM	(30°-60°)	4765.4	23.1	B3/5000		
BH	(60°-80°)	3750.2	18.2	B4/5000		G4/5000
BVH	(80°-90°)	94.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3857.8	3857.8	3857.8	3857.8	3857.8	3857.8	3857.8	3857.8	3857.8	3857.8	3857.8
2.5°	3861.2	3865.5	3865.5	3862.2	3869.9	3863.3	3863.3	3860.0	3863.3	3860.0	3860.0
5°	3880.9	3886.4	3888.5	3887.4	3897.4	3891.8	3891.8	3887.4	3888.5	3885.3	3885.3
7.5°	3918.2	3925.9	3930.3	3935.7	3950.0	3943.4	3939.1	3925.9	3920.4	3911.6	3911.6
10°	3930.3	3939.1	3953.3	3981.8	4014.7	4015.8	4002.6	3969.7	3944.5	3924.7	3921.4
12.5°	3893.0	3905.0	3934.7	3992.8	4066.3	4095.9	4075.1	4020.3	3970.8	3935.7	3930.3
15°	3845.8	3858.9	3903.9	3991.7	4100.3	4169.5	4167.2	4094.9	4015.8	3961.0	3952.2
17.5°	3772.2	3785.4	3850.2	3973.0	4126.6	4240.7	4271.5	4196.9	4086.1	4012.6	4000.5
20°	3639.5	3651.6	3741.6	3913.8	4135.5	4316.5	4396.5	4330.7	4192.5	4092.6	4074.0
22.5°	3467.3	3485.9	3591.2	3811.8	4114.6	4395.5	4539.2	4494.2	4316.5	4178.2	4153.0
25°	3282.9	3302.7	3425.6	3686.7	4060.8	4452.5	4708.2	4679.6	4456.9	4284.7	4249.5
27.5°	3123.8	3144.6	3278.5	3562.7	3977.4	4474.4	4875.0	4889.2	4627.0	4402.1	4364.8
30°	2998.7	3018.4	3161.1	3462.9	3869.9	4452.5	5020.9	5119.7	4800.4	4504.1	4450.3
32.5°	2861.6	2886.8	3037.1	3341.1	3742.6	4399.9	5148.2	5368.7	5001.2	4613.8	4545.8
35°	2688.2	2711.2	2869.3	3174.2	3575.8	4315.4	5254.6	5645.2	5288.6	4780.6	4704.9
37.5°	2477.5	2499.5	2656.4	2965.8	3410.2	4196.9	5335.8	5956.8	5630.9	5020.9	4920.0
40°	2265.8	2286.6	2433.7	2733.2	3211.5	4045.5	5364.3	6261.8	6023.7	5351.1	5243.6
42.5°	2071.5	2090.2	2225.2	2503.9	2988.8	3852.4	5327.0	6527.4	6376.0	5581.5	5443.4
45°	1892.7	1909.2	2028.8	2288.8	2757.4	3617.5	5215.1	6812.7	6795.1	5746.2	5559.6
47.5°	1688.6	1705.1	1829.1	2080.3	2525.8	3342.1	5025.3	7093.5	7377.7	6119.2	5904.2
50°	1439.5	1453.9	1581.1	1840.1	2285.5	3049.2	4761.9	7314.1	8112.9	6684.3	6414.3
52.5°	1144.4	1159.8	1283.7	1542.7	2000.3	2734.3	4415.2	7457.8	8962.1	7509.4	7176.9
55°	851.5	862.4	970.0	1202.5	1647.0	2375.5	3980.7	7498.4	9925.5	8637.4	8221.5
57.5°	617.8	624.3	693.4	866.8	1248.7	1926.7	3452.9	7393.1	11072.0	10083.4	9560.1
60°	500.3	502.6	523.4	600.1	867.9	1419.8	2815.5	7031.0	12316.3	11947.7	11288.2
62.5°	454.3	454.3	459.7	480.6	587.0	937.1	2044.2	6280.5	13650.5	14303.4	13420.1
65°	422.4	422.4	424.7	434.5	463.0	596.9	1290.4	5058.2	14775.2	17063.0	15945.9
67.5°	393.9	395.0	393.9	397.2	413.7	441.1	748.4	3493.6	15380.8	19922.3	18716.4
70°	364.3	366.4	361.0	361.0	374.1	375.3	468.5	1915.7	14878.4	22318.7	22001.5
72.5°	329.1	332.5	323.7	321.4	331.4	327.0	352.2	919.4	12773.9	23034.0	23867.9
75°	298.5	302.8	283.1	277.6	277.6	274.3	286.4	471.8	8290.6	18790.0	20097.9
77.5°	271.0	279.8	247.9	230.4	226.0	216.2	233.7	288.5	3626.3	8821.7	8638.4
80°	223.9	235.9	204.1	183.3	175.6	164.6	184.3	201.9	1078.6	2048.6	1961.8
82.5°	166.8	172.3	144.8	130.6	124.0	116.3	138.3	140.4	351.1	725.3	819.6
85°	106.4	108.6	88.9	76.8	73.5	70.2	87.7	76.8	133.9	533.2	774.6
87.5°	37.3	42.7	34.0	30.7	32.9	27.5	40.6	23.1	37.3	376.4	466.3
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)