

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: P964721

Luminaire Tested: **NAV-SB3C-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964721
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-SB3C-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

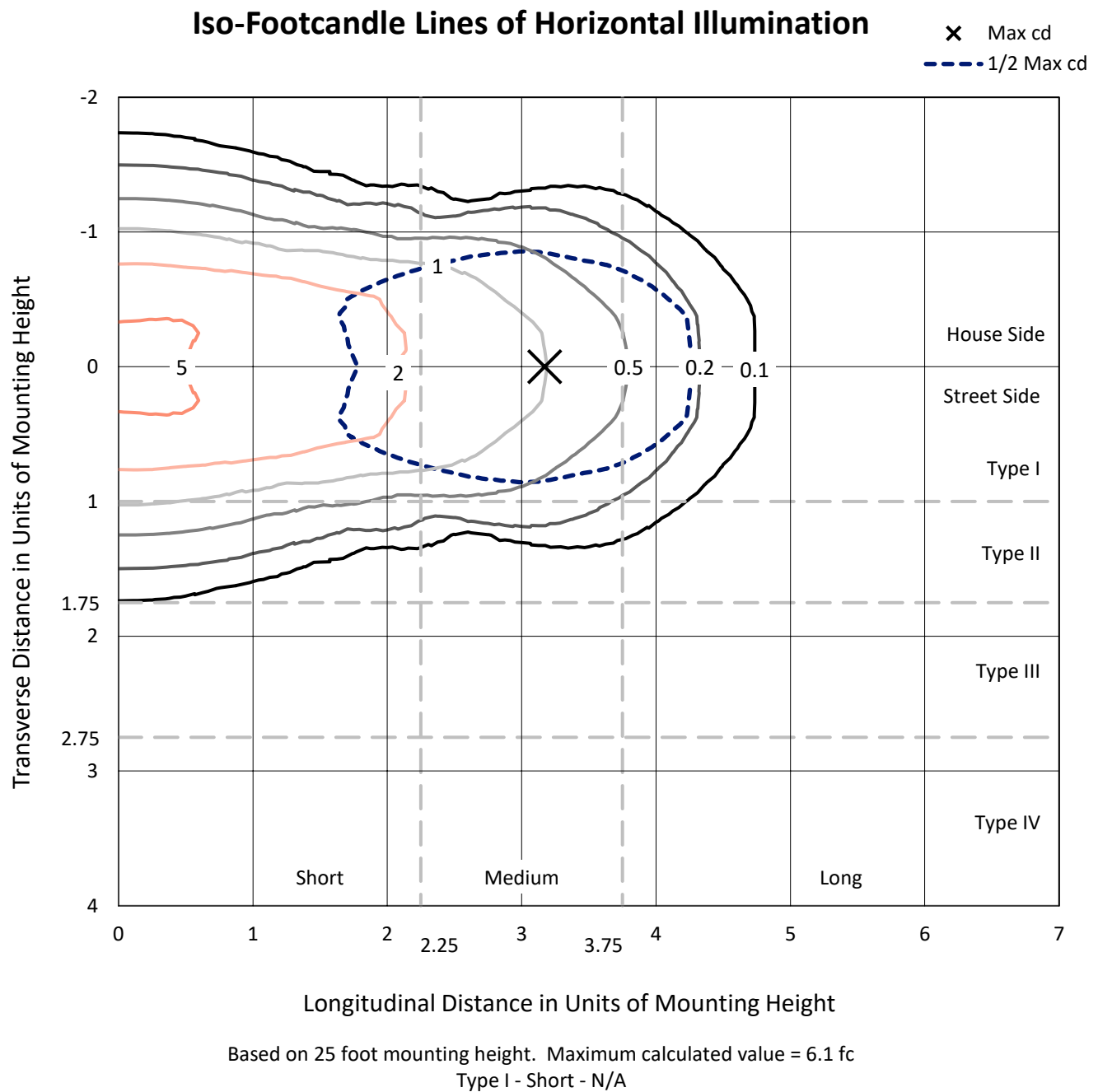
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20473.4 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 149.1
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

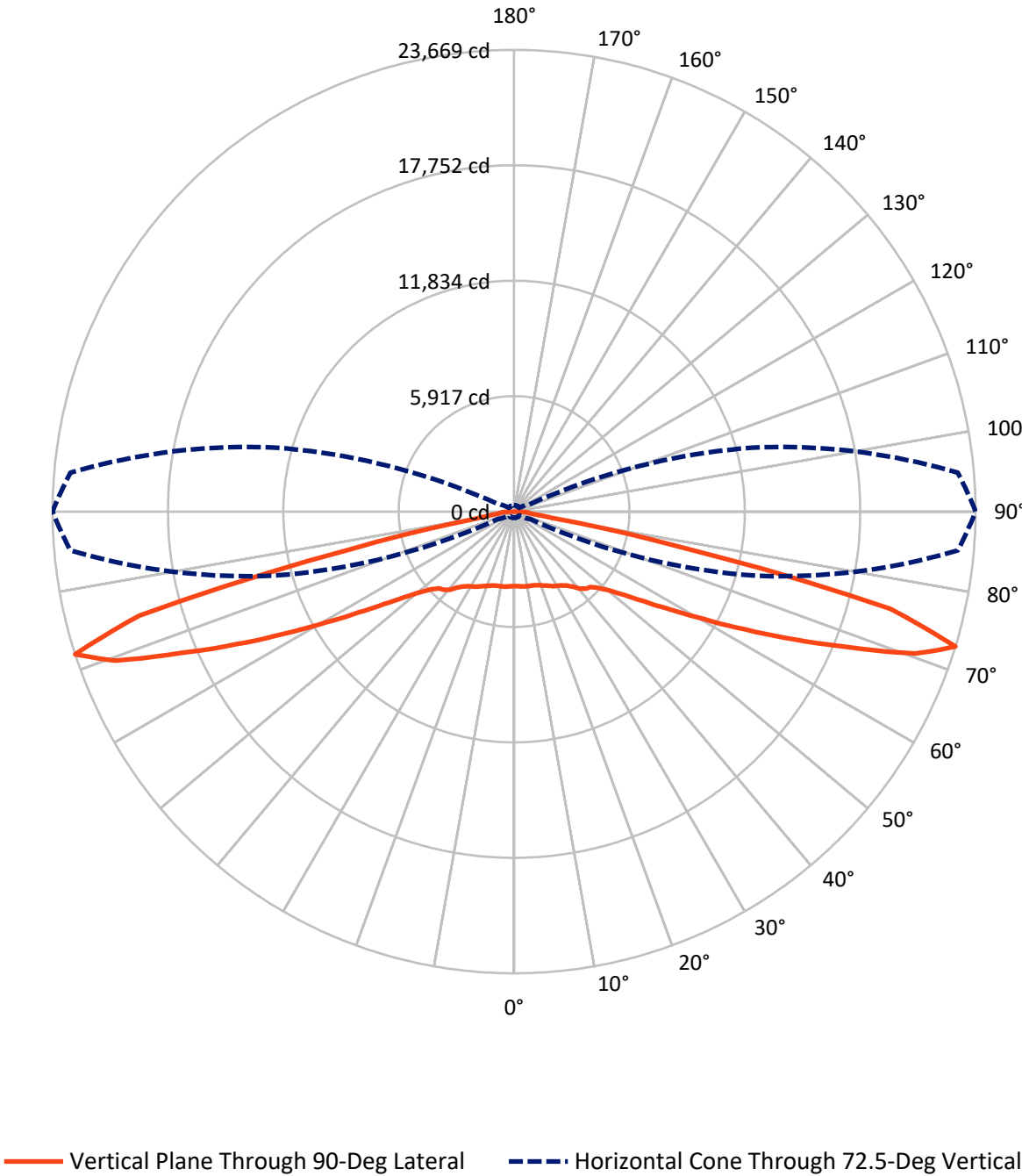


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10236.7	0.0	10236.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10236.7	0.0	10236.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	20473.4	0.0	20473.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.9	1.8
10°-20°	1134.2	5.5
20°-30°	1891.2	9.2
30°-40°	2601.0	12.7
40°-50°	3176.5	15.5
50°-60°	3673.9	17.9
60°-70°	4380.6	21.4
70°-80°	3057.3	14.9
80°-90°	187.8	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°	20473.4	100.0
0°-180°	20473.4	100.0

Coefficient of Utilization



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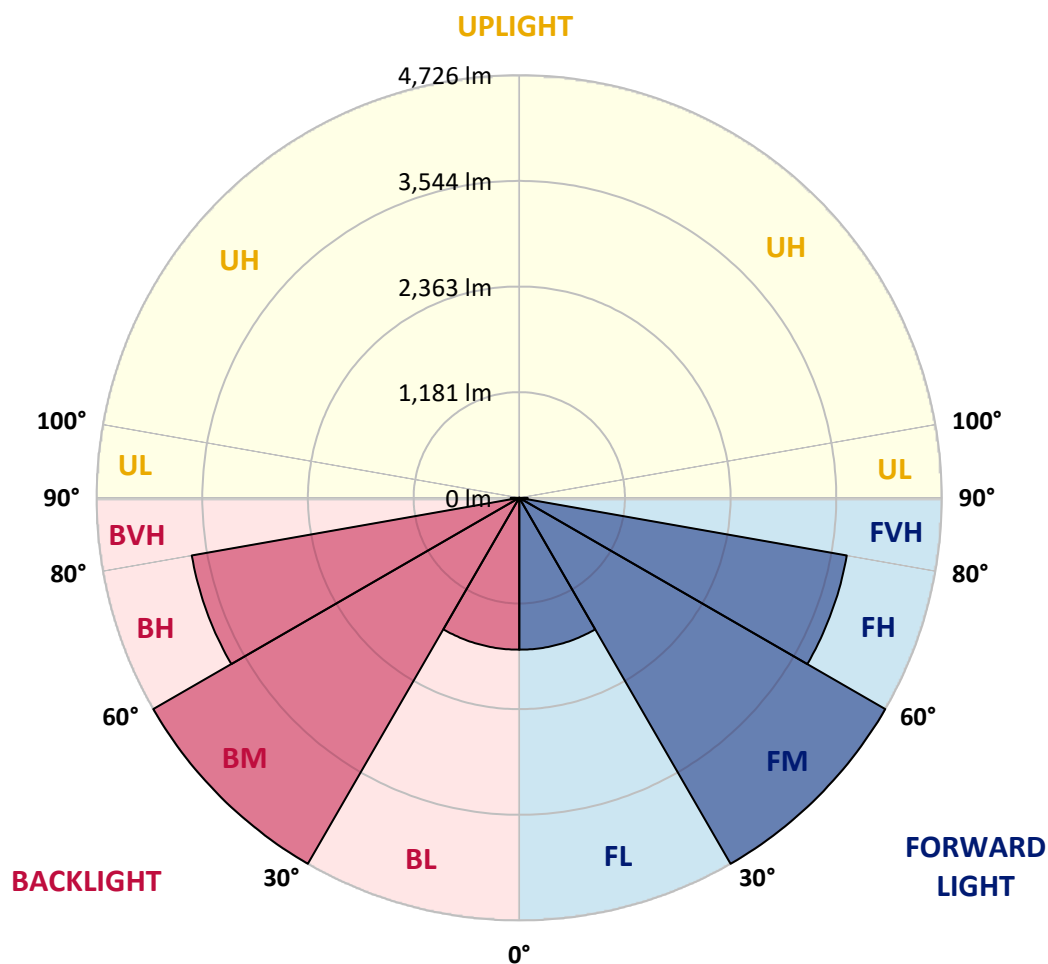
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1698.2	8.3			
FM	(30°-60°)	4725.7	23.1			
FH	(60°-80°)	3718.9	18.2			G2/5000
FVH	(80°-90°)	93.9	0.5			G1/100
BL	(0°-30°)	1698.2	8.3	B3/2500		
BM	(30°-60°)	4725.7	23.1	B3/5000		
BH	(60°-80°)	3718.9	18.2	B4/5000		G4/5000
BVH	(80°-90°)	93.9	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°	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7	3825.7
2.5°	3828.9	3833.3	3833.3	3830.0	3837.6	3831.1	3831.1	3827.9	3831.1	3827.9	3827.9
5°	3848.5	3854.0	3856.2	3855.0	3864.9	3859.4	3859.4	3855.0	3856.2	3852.9	3852.9
7.5°	3885.5	3893.2	3897.5	3902.9	3917.0	3910.6	3906.2	3893.2	3887.7	3879.0	3879.0
10°	3897.5	3906.2	3920.3	3948.6	3981.3	3982.3	3969.3	3936.6	3911.6	3892.0	3888.7
12.5°	3860.5	3872.4	3901.9	3959.5	4032.3	4061.8	4041.1	3986.7	3937.7	3902.9	3897.5
15°	3813.7	3826.7	3871.3	3958.4	4066.2	4134.6	4132.5	4060.6	3982.3	3927.9	3919.2
17.5°	3740.8	3753.9	3818.0	3939.9	4092.2	4205.4	4235.9	4161.9	4052.0	3979.0	3967.2
20°	3609.1	3621.1	3710.3	3881.2	4100.9	4280.5	4359.9	4294.6	4157.5	4058.5	4040.0
22.5°	3438.3	3456.8	3561.3	3780.0	4080.3	4358.8	4501.4	4456.7	4280.5	4143.4	4118.3
25°	3255.5	3275.1	3397.0	3656.0	4026.9	4415.4	4668.9	4640.6	4419.8	4248.9	4214.1
27.5°	3097.8	3118.5	3251.2	3533.0	3944.3	4437.1	4834.3	4848.5	4588.4	4365.4	4328.4
30°	2973.7	2993.3	3134.8	3434.0	3837.6	4415.4	4979.0	5076.9	4760.3	4466.5	4413.2
32.5°	2837.7	2862.7	3011.8	3313.2	3711.4	4363.2	5105.2	5324.0	4959.5	4575.3	4507.8
35°	2665.8	2688.6	2845.3	3147.8	3546.0	4279.4	5210.8	5598.1	5244.5	4740.7	4665.7
37.5°	2456.8	2478.7	2634.2	2941.0	3381.7	4161.9	5291.3	5907.2	5584.0	4979.0	4878.9
40°	2246.9	2267.5	2413.4	2710.4	3184.8	4011.7	5319.5	6209.7	5973.5	5306.5	5199.9
42.5°	2054.3	2072.8	2206.6	2483.0	2963.9	3820.2	5282.5	6473.0	6322.8	5535.0	5398.0
45°	1876.9	1893.3	2011.9	2269.8	2734.3	3587.4	5171.6	6755.9	6738.5	5698.3	5513.3
47.5°	1674.5	1690.8	1813.8	2063.0	2504.8	3314.2	4983.3	7034.4	7316.2	6068.2	5854.9
50°	1427.5	1441.7	1567.9	1824.7	2266.5	3023.7	4722.3	7253.1	8045.2	6628.6	6360.8
52.5°	1134.9	1150.0	1273.0	1529.8	1983.6	2711.4	4378.4	7395.6	8887.4	7446.7	7117.1
55°	844.4	855.3	961.9	1192.5	1633.2	2355.7	3947.5	7435.9	9842.7	8565.3	8153.0
57.5°	612.5	619.1	687.7	859.6	1238.2	1910.7	3424.1	7331.4	10979.7	9999.4	9480.3
60°	496.2	498.4	519.1	595.2	860.7	1407.9	2792.0	6972.4	12213.6	11848.0	11194.1
62.5°	450.5	450.5	455.9	476.6	582.1	929.2	2027.0	6228.1	13536.7	14184.2	13308.2
65°	418.9	418.9	421.1	430.9	459.2	591.9	1279.6	5016.0	14652.0	16920.6	15813.0
67.5°	390.6	391.8	390.6	393.9	410.2	437.4	742.1	3464.4	15252.6	19756.2	18560.3
70°	361.2	363.5	357.9	357.9	371.0	372.1	464.6	1899.7	14754.3	22132.5	21818.0
72.5°	326.5	329.6	321.0	318.8	328.6	324.2	349.3	911.8	12667.4	22841.9	23668.8
75°	295.9	300.3	280.7	275.3	275.3	272.0	284.0	467.9	8221.4	18633.3	19930.2
77.5°	268.8	277.5	245.9	228.5	224.2	214.3	231.8	286.2	3596.1	8748.1	8566.4
80°	222.0	233.9	202.3	181.7	174.0	163.2	182.8	200.2	1069.6	2031.4	1945.4
82.5°	165.4	170.9	143.6	129.5	123.0	115.3	137.1	139.3	348.2	719.2	812.8
85°	105.6	107.7	88.1	76.2	72.9	69.6	87.0	76.2	132.7	528.8	768.1
87.5°	37.0	42.4	33.7	30.4	32.6	27.2	40.3	22.9	37.0	373.2	462.5
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)