

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: P967872

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967872
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-SB5A-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 21490.2 lumens
Efficiency: N/A
Efficacy: 151.7 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): 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



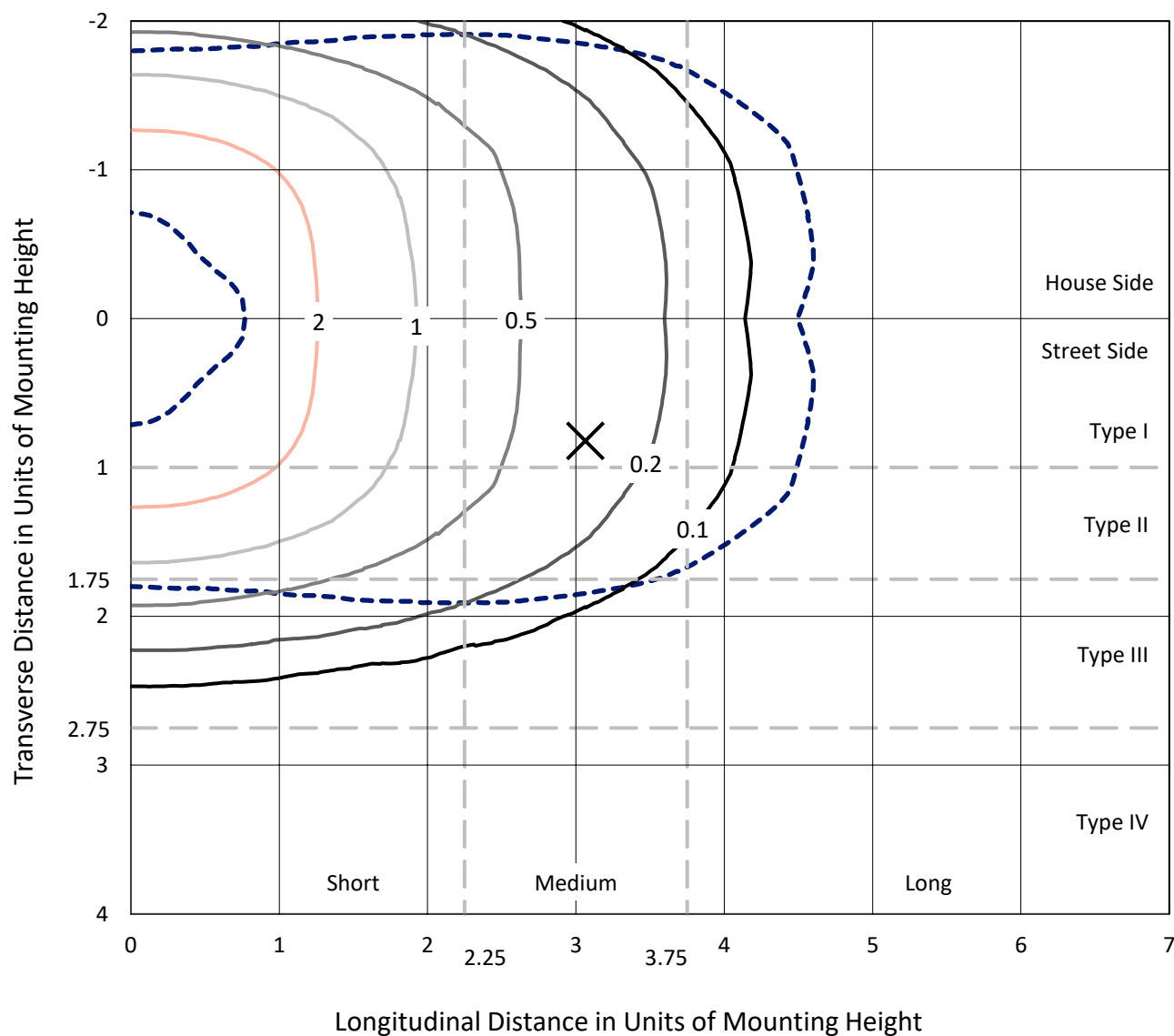
REPORT NUMBER: P967872

CATALOG NUMBER: NAV-SB5A-830-U-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

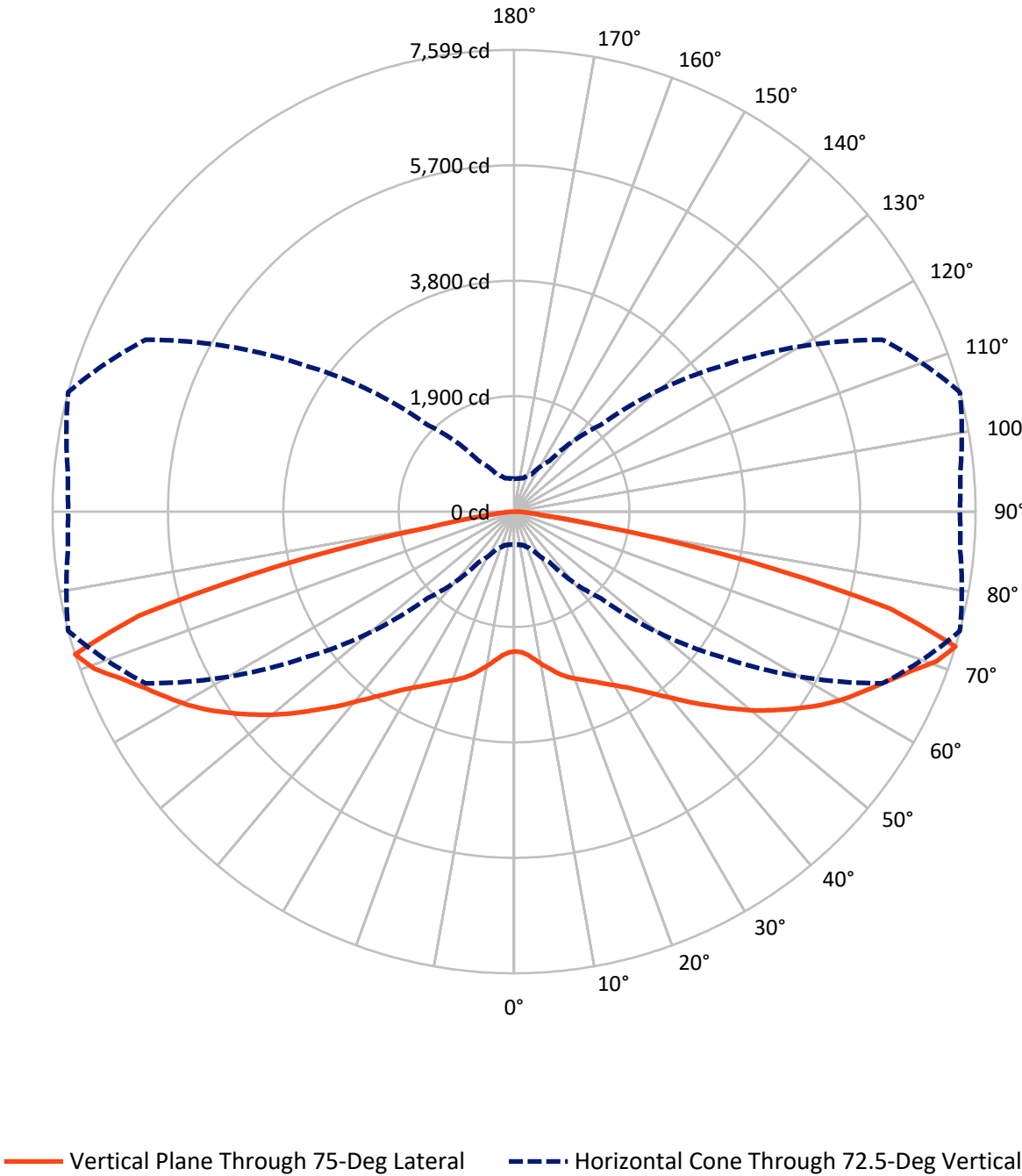
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Medium - N/A

REPORT NUMBER: P967872
CATALOG NUMBER: NAV-SB5A-830-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10745.1	0.0	10745.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10745.1	0.0	10745.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	21490.2	0.0	21490.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	1.0
10°-20°	743.7	3.5
20°-30°	1437.1	6.7
30°-40°	2426.7	11.3
40°-50°	3848.4	17.9
50°-60°	5152.6	24.0
60°-70°	4903.6	22.8
70°-80°	2558.8	11.9
80°-90°	193.7	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°	21490.2	100.0
0°-180°	21490.2	100.0

Coefficient of Utilization



REPORT NUMBER: P967872

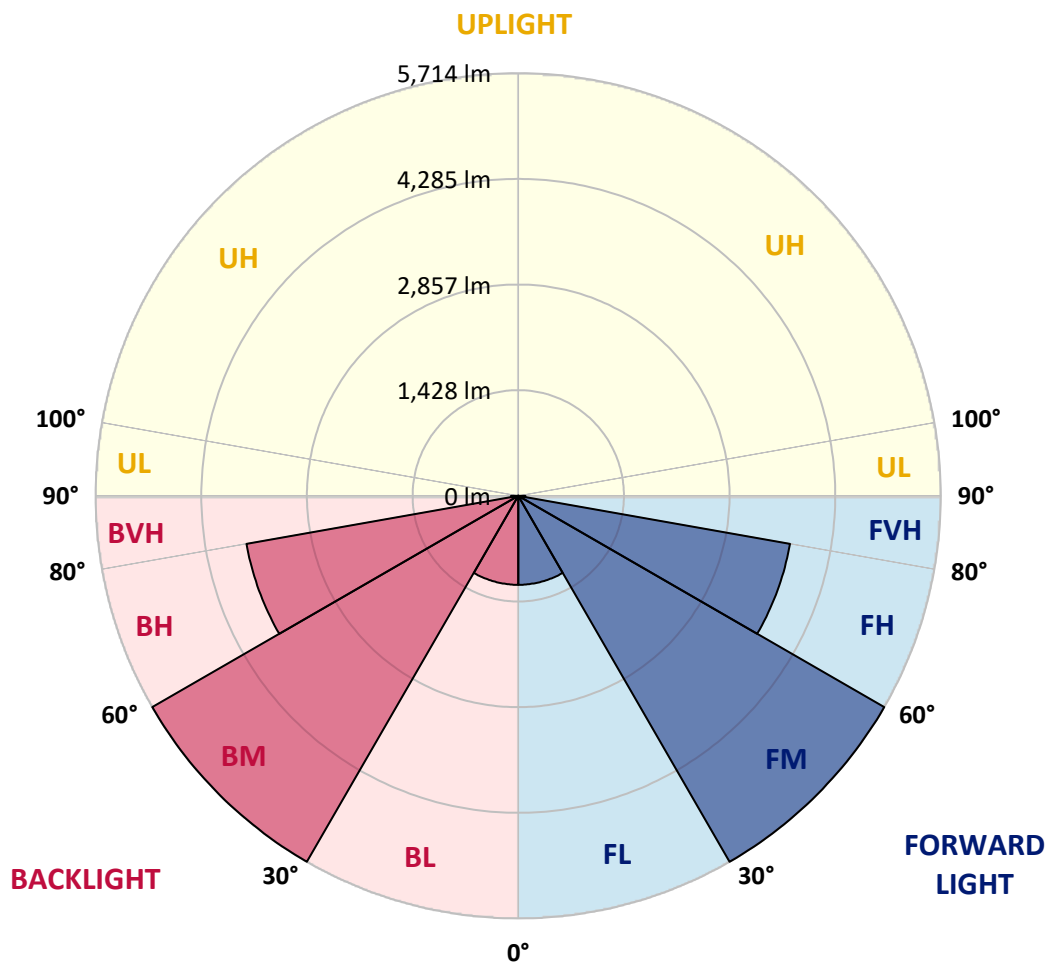
CATALOG NUMBER: NAV-SB5A-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1203.2	5.6			
FM	(30°-60°)	5713.8	26.6			
FH	(60°-80°)	3731.2	17.4			G2/5000
FVH	(80°-90°)	96.9	0.5			G1/100
BL	(0°-30°)	1203.2	5.6	B3/2500		
BM	(30°-60°)	5713.8	26.6	B4/8500		
BH	(60°-80°)	3731.2	17.4	B4/5000		G4/5000
BVH	(80°-90°)	96.9	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 III Medium



REPORT NUMBER: P967872

CATALOG NUMBER: NAV-SB5A-830-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2301.9	2301.9	2301.9	2301.9	2301.9	2301.9	2301.9	2301.9	2301.9	2301.9	2301.9
2.5°	2301.9	2299.8	2301.9	2304.2	2303.1	2303.1	2308.6	2311.9	2318.4	2317.3	2316.2
5°	2286.6	2285.5	2294.3	2304.2	2311.9	2325.0	2341.5	2353.5	2368.9	2372.2	2372.2
7.5°	2279.0	2275.6	2291.0	2308.6	2332.7	2365.6	2397.5	2430.4	2456.7	2465.4	2467.7
10°	2284.4	2285.5	2306.4	2339.3	2377.7	2423.8	2468.7	2524.7	2562.0	2570.8	2579.6
12.5°	2309.6	2307.5	2342.5	2395.2	2447.9	2506.0	2558.7	2620.2	2660.8	2681.6	2690.4
15°	2355.8	2351.4	2400.8	2478.7	2555.4	2623.5	2666.2	2724.4	2771.6	2797.9	2807.8
17.5°	2410.6	2412.8	2477.5	2578.5	2679.5	2756.2	2796.8	2826.4	2862.6	2885.7	2896.6
20°	2507.1	2511.6	2583.9	2703.5	2818.7	2906.6	2939.5	2928.5	2938.4	2955.9	2969.1
22.5°	2636.6	2638.9	2720.0	2849.5	2970.1	3066.7	3088.7	3043.7	3016.3	3028.4	3037.1
25°	2787.0	2801.2	2882.4	3015.1	3139.2	3231.3	3241.3	3173.2	3105.1	3108.4	3114.0
27.5°	2970.1	2983.4	3065.7	3197.3	3323.5	3403.6	3402.5	3311.5	3211.5	3186.3	3194.0
30°	3168.8	3183.0	3267.5	3403.6	3521.0	3591.2	3575.8	3467.3	3324.6	3277.4	3282.9
32.5°	3404.7	3413.5	3499.0	3635.1	3743.7	3799.7	3767.9	3634.0	3456.3	3402.5	3415.7
35°	3690.0	3703.1	3766.8	3895.1	3990.6	4036.7	3982.9	3824.9	3625.2	3564.8	3573.7
37.5°	4015.8	4007.0	4079.5	4193.6	4272.6	4301.1	4227.6	4039.9	3818.3	3747.0	3760.2
40°	4355.9	4351.6	4430.6	4540.3	4583.1	4600.7	4492.1	4286.9	4041.1	3964.3	3989.5
42.5°	4664.3	4661.0	4767.5	4889.2	4940.8	4921.0	4783.9	4549.1	4299.0	4211.1	4233.1
45°	4911.2	4906.8	5037.4	5208.5	5309.5	5276.6	5092.2	4838.7	4560.0	4469.0	4489.8
47.5°	5101.0	5103.2	5243.6	5455.4	5632.1	5644.2	5407.1	5133.9	4847.5	4744.4	4775.2
50°	5238.2	5244.7	5395.1	5629.9	5871.3	5977.7	5728.6	5436.8	5144.9	5028.5	5063.7
52.5°	5272.2	5284.3	5465.3	5740.7	6024.8	6227.9	6055.6	5727.5	5426.9	5316.1	5344.6
55°	5091.2	5115.3	5344.6	5731.9	6119.2	6392.4	6343.1	6022.7	5711.1	5596.9	5628.8
57.5°	4675.2	4709.3	4977.0	5482.8	6098.3	6505.5	6565.8	6305.8	5995.2	5885.5	5910.8
60°	4092.6	4133.2	4390.0	4941.9	5804.4	6547.2	6722.7	6581.1	6256.4	6150.0	6173.0
62.5°	3213.8	3266.5	3573.7	4221.1	5183.3	6353.0	6856.5	6830.2	6491.2	6358.4	6373.8
65°	2061.7	2117.6	2441.3	3206.1	4354.9	5758.2	6898.2	7072.7	6739.2	6553.7	6576.8
67.5°	1243.1	1268.4	1428.5	1943.2	3183.0	4861.8	6544.9	7341.6	7028.8	6798.4	6815.9
70°	795.5	809.7	905.2	1141.1	1799.5	3547.3	5669.4	7392.0	7379.9	7049.6	7047.5
72.5°	539.9	544.3	569.5	675.9	1018.2	2015.6	4181.5	6692.0	7599.4	7373.3	7338.3
75°	395.0	419.1	459.7	478.4	578.2	1007.3	2396.3	4701.6	6404.5	6503.2	6264.1
77.5°	294.1	295.2	351.1	373.1	412.6	536.6	1013.8	2624.6	3976.4	4174.9	3724.0
80°	249.1	235.9	234.8	300.6	310.5	334.7	453.2	906.3	1424.2	863.6	652.8
82.5°	207.4	193.1	174.5	234.8	211.8	205.2	196.4	368.7	453.2	222.7	189.8
85°	144.8	138.3	131.7	153.6	120.7	103.1	94.4	172.3	191.0	94.4	83.4
87.5°	62.5	64.8	65.8	68.1	50.4	36.2	36.2	48.3	48.3	37.3	27.5
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)