

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P982721

Luminaire Tested: S122IW-B435UB30-4F0-XX-W2A

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P982721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122IW-B435UB30-4F0-XX-W2A
Description: Define 2 Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

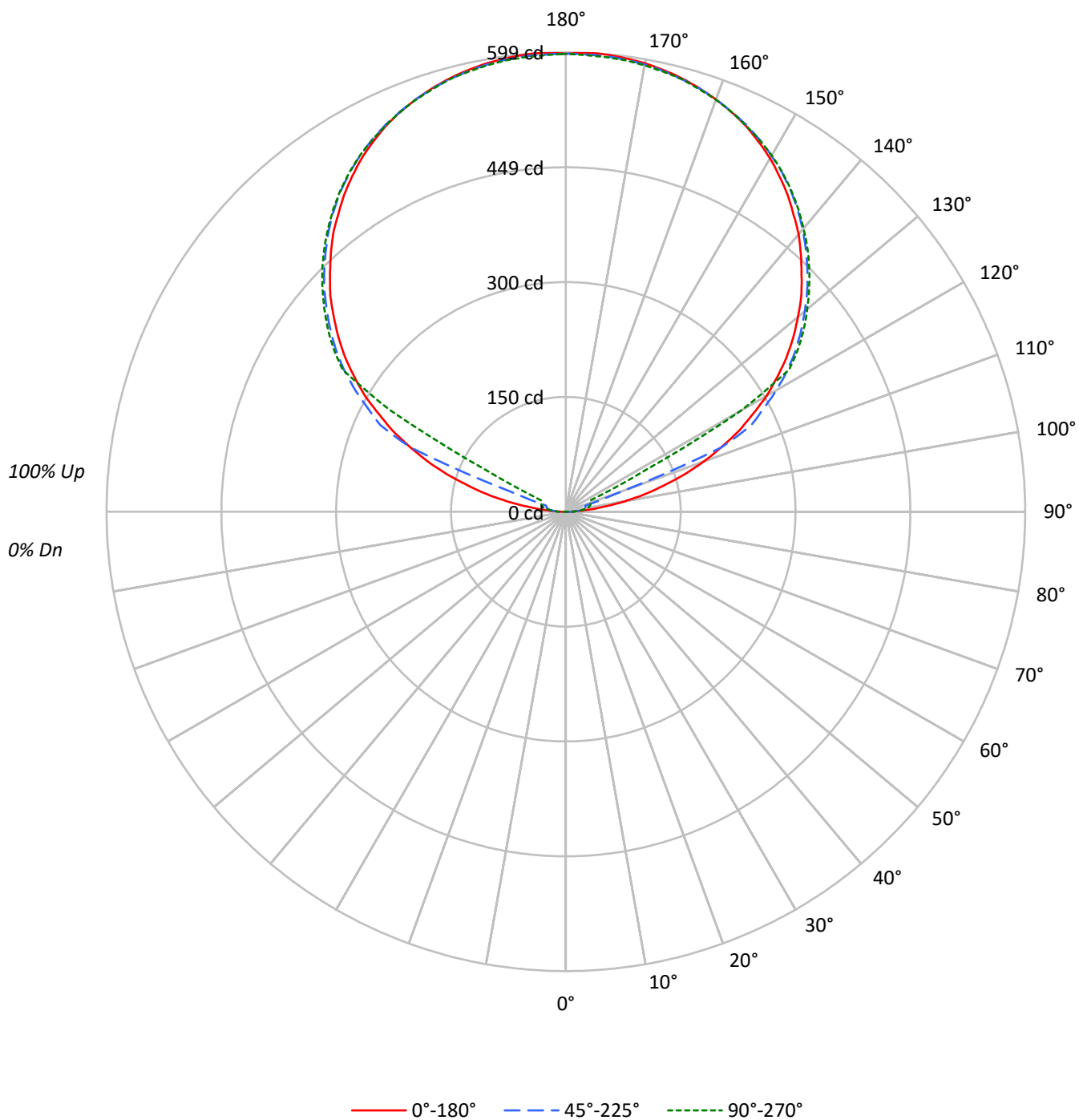
Lumens per Lamp: N/A
Luminaire Lumens: 1752.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 13.2
Input Voltage (V):
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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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56		32	32	32		10
1	87	83	79	76	74	71	68	65	48	47	45		28	27	26		9
2	79	72	66	62	67	62	57	53	42	40	37		24	23	22		8
3	72	63	56	51	61	54	49	44	37	34	31		21	20	18		7
4	65	56	48	43	56	48	42	37	33	29	26		19	17	16		6
5	60	49	42	36	51	42	36	32	29	25	22		17	15	13		5
6	55	44	36	31	47	38	32	27	26	22	19		15	13	11		5
7	50	39	32	27	43	34	28	23	23	19	17		14	11	10		4
8	47	35	28	23	40	30	24	20	21	17	14		12	10	9		4
9	43	32	25	20	37	27	22	18	19	15	13		11	9	8		4
10	40	29	22	18	34	25	19	16	17	14	11		10	8	7		3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 0°
Luminance: 0 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.1	0.1
90°-100°	19.7	1.1
100°-110°	73.4	4.2
110°-120°	194.7	11.1
120°-130°	322.9	18.4
130°-140°	343.0	19.6
140°-150°	318.8	18.2
150°-160°	256.3	14.6
160°-170°	165.2	9.4
170°-180°	56.8	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.1	0.1
90°-120°	287.8	16.4
90°-150°	1272.6	72.6
90°-180°	1751.0	99.9
0°-180°	1752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	5	9	11	12	2
95°	28	14	17	19	19	33
105°	131	144	26	31	33	140
115°	248	256	267	67	35	245
125°	351	357	365	368	370	313
135°	435	442	446	450	449	336
145°	504	504	511	514	512	315
155°	555	551	557	559	556	256
165°	585	583	584	587	584	165
175°	599	596	596	599	595	57
180°	597	597	597	597	597	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.4	5.2	8.6	10.8	11.7
92.5°	10.8	9.1	10.4	11.2	11.7
95°	28.1	13.8	16.9	19.0	18.6
97.5°	50.6	15.1	22.0	23.3	23.8
100°	76.5	17.3	24.6	28.1	29.0
102.5°	105.0	104.2	25.5	30.3	31.5
105°	131.4	144.3	26.4	31.1	32.8
107.5°	162.1	172.9	27.2	32.0	33.7
110°	191.5	200.5	75.6	32.4	34.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.1	226.9	219.5	33.3	34.6
115°	248.5	255.8	266.6	66.6	35.4
117.5°	274.0	282.6	290.0	228.2	115.0
120°	302.5	309.0	316.8	322.0	263.6
122.5°	326.7	333.6	342.3	344.9	345.3
125°	351.4	357.0	365.2	368.2	369.5
127.5°	373.8	379.9	386.4	390.7	391.1
130°	395.0	401.9	406.7	411.4	411.0
132.5°	416.6	422.2	427.0	430.9	430.4
135°	434.8	441.7	445.6	449.9	449.0
137.5°	453.8	459.0	463.3	467.6	466.3
140°	472.4	475.8	480.6	484.5	482.3
142.5°	487.9	490.9	496.6	500.0	497.9
145°	504.3	503.9	511.3	514.3	512.1
147.5°	518.6	517.3	524.7	526.8	525.1
150°	532.4	529.4	536.3	538.9	536.8
152.5°	544.1	540.6	547.1	549.7	546.7
155°	555.3	551.4	556.6	559.2	555.8
157.5°	564.4	561.0	564.8	567.9	564.4
160°	572.2	569.6	572.2	574.8	571.8
162.5°	579.1	576.5	578.7	581.7	577.8
165°	585.2	582.6	583.9	586.9	583.9
167.5°	589.9	587.3	588.6	591.6	587.7
170°	593.8	591.2	592.1	595.1	591.2
172.5°	596.4	593.8	594.7	597.7	593.8
175°	598.6	595.5	596.4	599.4	595.1
177.5°	599.4	596.4	596.8	599.9	596.0
180°	597.3	597.3	597.3	597.3	597.3



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

END OF REPORT