

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: P982722

Luminaire Tested: S122IW-B435UB35-4F0-XX-W2A-1

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P982722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122IW-B435UB35-4F0-XX-W2A-1
Description: Define 2 Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

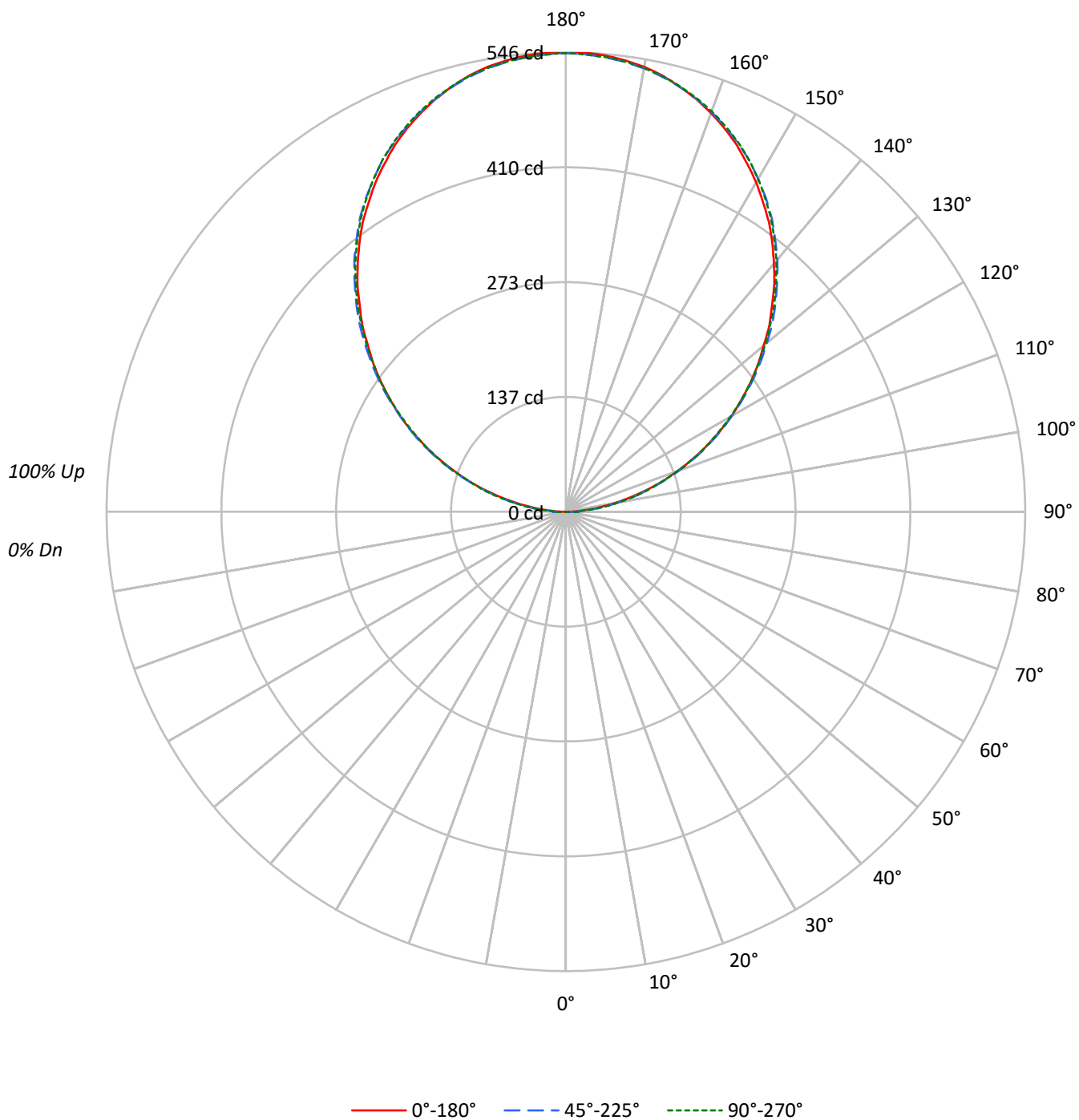
Lumens per Lamp: N/A
Luminaire Lumens: 1526.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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

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°	1.6	0.1
90°-100°	33.7	2.2
100°-110°	107.2	7.0
110°-120°	183.5	12.0
120°-130°	241.3	15.8
130°-140°	270.9	17.7
140°-150°	265.6	17.4
150°-160°	222.8	14.6
160°-170°	147.8	9.7
170°-180°	51.6	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.6	0.1
90°-120°	324.4	21.3
90°-150°	1102.2	72.2
90°-180°	1524.0	99.9
0°-180°	1526.0	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	6	16	15	16	2
95°	24	28	29	29	28	27
105°	99	100	101	102	102	104
115°	184	187	186	185	184	182
125°	268	272	271	269	269	239
135°	346	352	352	352	351	268
145°	421	424	426	427	425	263
155°	481	482	484	486	484	221
165°	523	523	523	526	524	148
175°	544	543	542	545	542	52
180°	545	545	545	545	545	

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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°	0.5	6.0	16.1	15.2	15.6
92.5°	10.1	13.8	14.3	14.7	14.7
95°	23.9	28.5	29.4	29.4	28.5
97.5°	40.0	44.2	46.0	46.0	46.0
100°	58.4	62.1	63.5	63.5	63.0
102.5°	77.8	80.5	82.4	82.8	82.4
105°	98.9	100.3	101.2	102.2	102.2
107.5°	120.1	121.9	121.9	122.4	120.1
110°	140.3	143.1	143.1	143.1	141.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	162.4	165.2	164.7	163.3	162.4
115°	184.1	186.8	185.9	185.4	184.1
117.5°	205.7	209.4	207.1	205.7	204.3
120°	227.3	231.0	227.3	227.3	225.9
122.5°	247.1	251.7	249.4	248.0	247.1
125°	267.8	271.9	270.6	269.2	268.7
127.5°	288.0	293.1	291.3	289.4	288.0
130°	306.9	312.9	312.0	311.1	309.2
132.5°	328.1	332.7	333.1	330.8	329.5
135°	346.5	351.5	352.5	352.0	350.6
137.5°	366.7	370.9	371.8	371.3	369.5
140°	384.7	388.8	391.1	391.1	389.3
142.5°	403.1	407.2	408.6	409.1	407.2
145°	420.6	423.8	426.5	427.0	425.2
147.5°	436.2	440.4	442.2	443.1	441.3
150°	452.3	455.1	456.9	458.3	456.9
152.5°	466.6	469.3	471.6	473.5	471.6
155°	480.8	482.2	483.6	485.9	484.5
157.5°	493.3	494.2	495.1	498.3	496.0
160°	504.3	505.2	505.7	508.5	506.6
162.5°	514.4	514.4	514.9	518.1	515.8
165°	523.2	522.7	522.7	525.9	523.6
167.5°	531.0	529.6	529.6	532.8	530.5
170°	537.0	535.6	535.1	538.4	535.6
172.5°	541.1	539.7	539.3	542.5	539.7
175°	544.3	543.0	542.0	545.3	542.5
177.5°	546.2	544.8	543.9	546.6	543.9
180°	545.3	545.3	545.3	545.3	545.3



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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