

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: P982715

Luminaire Tested: S122IW-B435UB2750-4F0-XX-W2A_2700K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P982715
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-B435UB2750-4F0-XX-W2A_2700K
Description: Define 2 Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

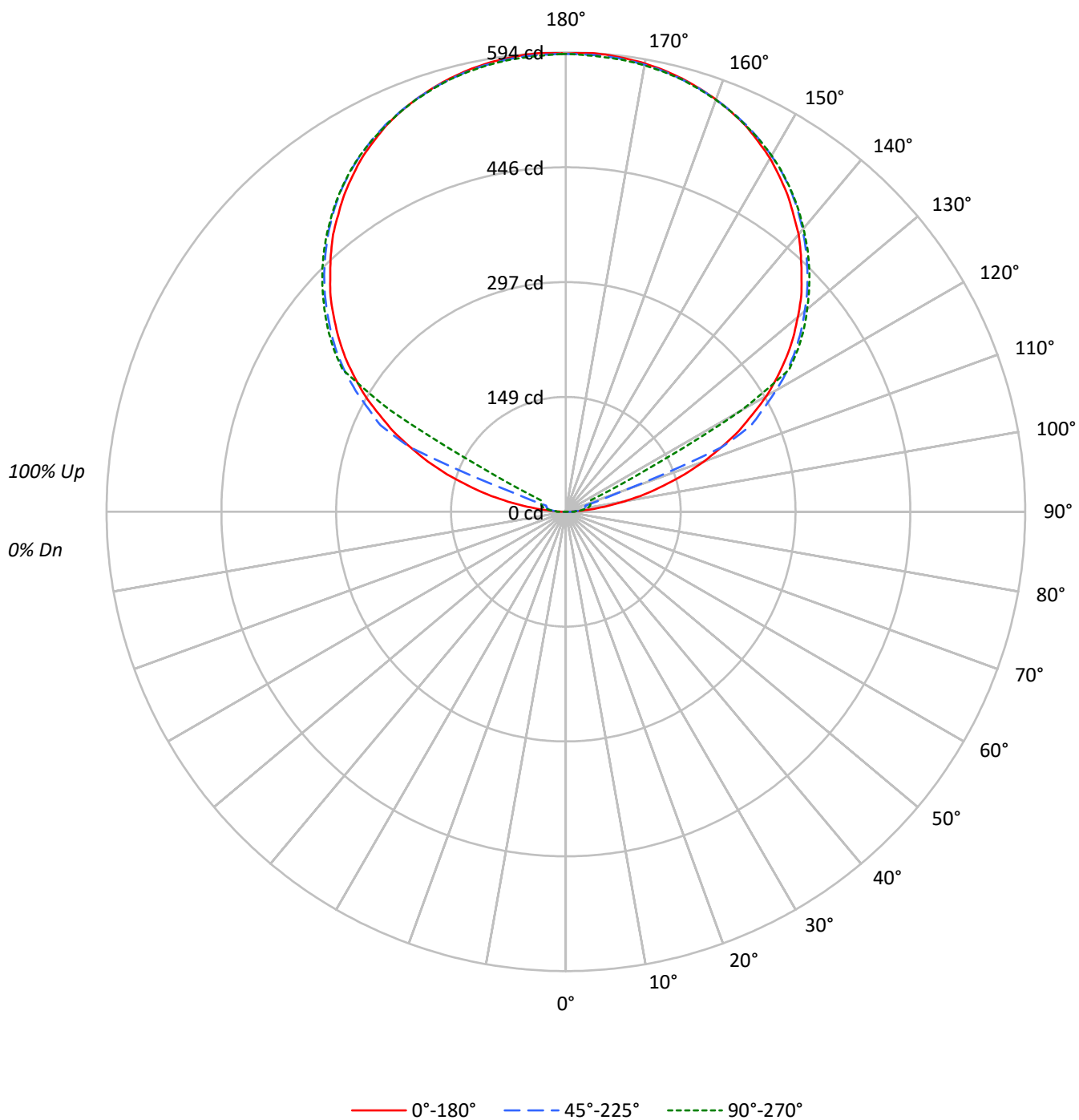
Lumens per Lamp: N/A
Luminaire Lumens: 1737.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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

TEST NUMBER: P982715

CATALOG NUMBER: S122IW-B435UB2750-4F0-XX-W2A_2700K

Luminous Intensity Polar Plot





TEST NUMBER: P982715

CATALOG NUMBER: S122IW-B435UB2750-4F0-XX-W2A_2700K

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

TEST NUMBER: P982715

CATALOG NUMBER: S122IW-B435UB2750-4F0-XX-W2A_2700K

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°	1.0	0.1
90°-100°	19.5	1.1
100°-110°	72.8	4.2
110°-120°	193.0	11.1
120°-130°	320.2	18.4
130°-140°	340.1	19.6
140°-150°	316.1	18.2
150°-160°	254.1	14.6
160°-170°	163.8	9.4
170°-180°	56.4	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.0	0.1
90°-120°	285.4	16.4
90°-150°	1261.7	72.6
90°-180°	1736.0	99.9
0°-180°	1737.0	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	18	33
105°	130	143	26	31	33	139
115°	246	254	264	66	35	243
125°	348	354	362	365	366	311
135°	431	438	442	446	445	333
145°	500	500	507	510	508	313
155°	551	547	552	554	551	254
165°	580	578	579	582	579	164
175°	593	590	591	594	590	56
180°	592	592	592	592	592	

TEST NUMBER: P982715

CATALOG NUMBER: S122IW-B435UB2750-4F0-XX-W2A_2700K

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	5.1	8.6	10.7	11.6
92.5°	10.7	9.0	10.3	11.1	11.6
95°	27.9	13.7	16.7	18.9	18.4
97.5°	50.1	15.0	21.9	23.1	23.6
100°	75.8	17.1	24.4	27.9	28.7
102.5°	104.1	103.3	25.3	30.0	31.3
105°	130.3	143.1	26.1	30.8	32.6
107.5°	160.7	171.4	27.0	31.7	33.4
110°	189.8	198.8	75.0	32.1	33.8

TEST NUMBER: P982715

CATALOG NUMBER: S122IW-B435UB2750-4F0-XX-W2A_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.2	224.9	217.7	33.0	34.3
115°	246.4	253.7	264.4	66.0	35.1
117.5°	271.6	280.2	287.5	226.2	114.0
120°	299.9	306.4	314.1	319.2	261.4
122.5°	323.9	330.8	339.3	341.9	342.3
125°	348.3	353.9	362.1	365.1	366.3
127.5°	370.6	376.6	383.1	387.3	387.8
130°	391.6	398.5	403.2	407.9	407.5
132.5°	413.0	418.6	423.3	427.2	426.8
135°	431.0	437.9	441.8	446.0	445.2
137.5°	449.9	455.0	459.3	463.6	462.3
140°	468.3	471.7	476.5	480.3	478.2
142.5°	483.7	486.7	492.3	495.7	493.6
145°	500.0	499.6	506.9	509.9	507.7
147.5°	514.2	512.9	520.2	522.3	520.6
150°	527.9	524.9	531.7	534.3	532.2
152.5°	539.4	536.0	542.4	545.0	542.0
155°	550.6	546.7	551.9	554.4	551.0
157.5°	559.6	556.2	560.0	563.0	559.6
160°	567.3	564.7	567.3	569.9	566.9
162.5°	574.1	571.6	573.7	576.7	572.9
165°	580.1	577.6	578.9	581.9	578.9
167.5°	584.9	582.3	583.6	586.6	582.7
170°	588.7	586.1	587.0	590.0	586.1
172.5°	591.3	588.7	589.6	592.6	588.7
175°	593.4	590.4	591.3	594.3	590.0
177.5°	594.3	591.3	591.7	594.7	590.9
180°	592.1	592.1	592.1	592.1	592.1



TEST NUMBER: P982715

CATALOG NUMBER: S122IW-B435UB2750-4F0-XX-W2A_2700K

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