

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: P982681

Luminaire Tested: S122IW-B1240UB30-4F0-XX-W2A

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P982681
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-B1240UB30-4F0-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

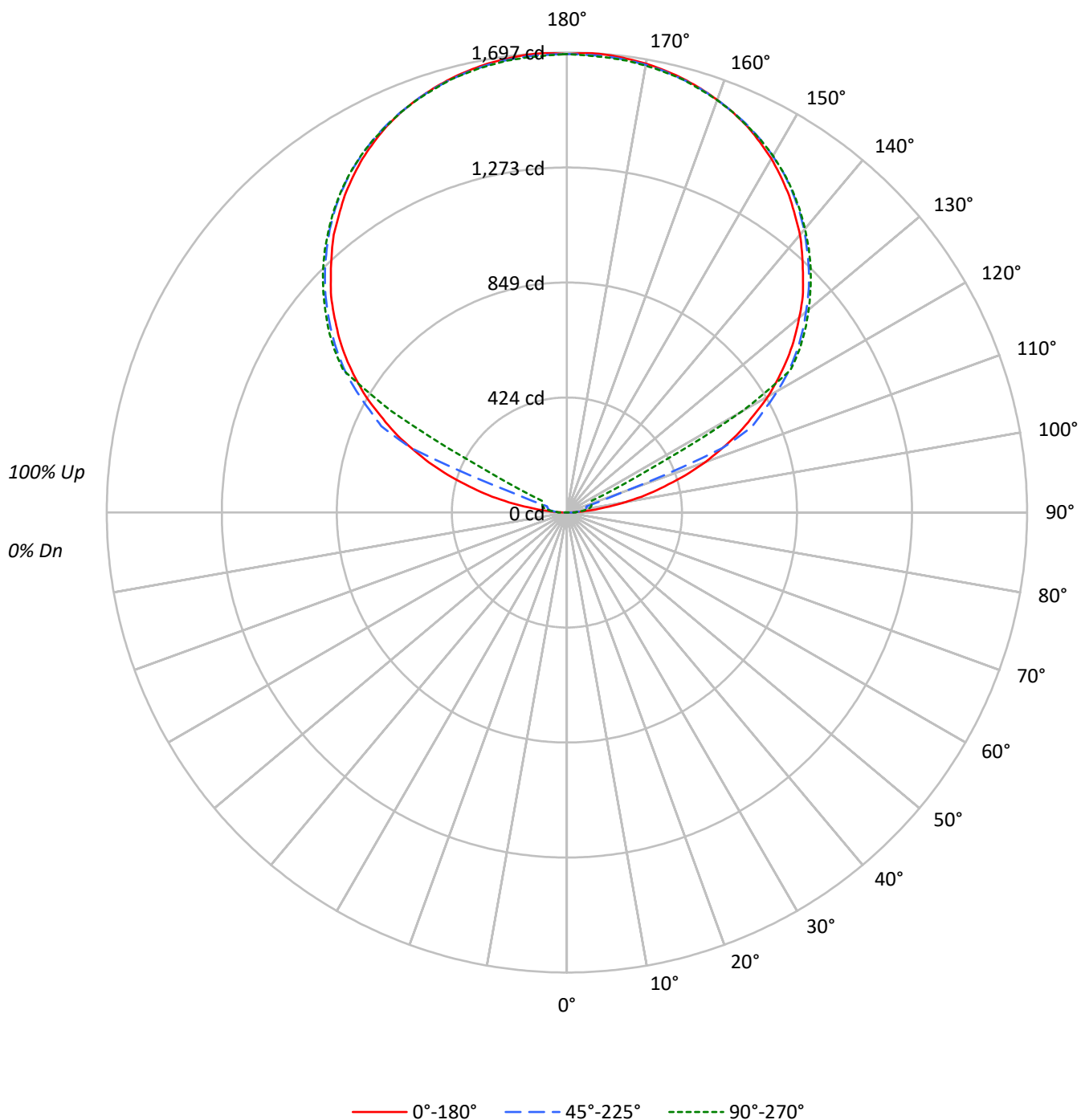
Lumens per Lamp: N/A
Luminaire Lumens: 4961.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 42.1
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: P982681

CATALOG NUMBER: S122IW-B1240UB30-4F0-XX-W2A

Luminous Intensity Polar Plot



TEST NUMBER: P982681

CATALOG NUMBER: S122IW-B1240UB30-4F0-XX-W2A

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: P982681

CATALOG NUMBER: S122IW-B1240UB30-4F0-XX-W2A

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°	3.0	0.1
90°-100°	55.8	1.1
100°-110°	207.9	4.2
110°-120°	551.4	11.1
120°-130°	914.4	18.4
130°-140°	971.3	19.6
140°-150°	902.8	18.2
150°-160°	725.8	14.6
160°-170°	467.7	9.4
170°-180°	161.0	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.0	0.1
90°-120°	815.0	16.4
90°-150°	3603.6	72.6
90°-180°	4958.0	99.9
0°-180°	4961.0	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°	1	15	24	31	33	5
95°	80	39	48	54	53	94
105°	372	409	75	88	93	397
115°	704	724	755	188	100	693
125°	995	1011	1034	1043	1046	887
135°	1231	1251	1262	1274	1272	951
145°	1428	1427	1448	1456	1450	893
155°	1572	1562	1576	1584	1574	725
165°	1657	1650	1653	1662	1653	468
175°	1695	1686	1689	1697	1685	161
180°	1691	1691	1691	1691	1691	

TEST NUMBER: P982681

CATALOG NUMBER: S122IW-B1240UB30-4F0-XX-W2A

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°	1.2	14.7	24.5	30.6	33.0
92.5°	30.6	25.7	29.4	31.8	33.0
95°	79.5	39.2	47.7	53.8	52.6
97.5°	143.2	42.8	62.4	66.1	67.3
100°	216.6	48.9	69.8	79.5	82.0
102.5°	297.4	294.9	72.2	85.7	89.3
105°	372.0	408.7	74.6	88.1	93.0
107.5°	458.9	489.5	77.1	90.6	95.5
110°	542.1	567.8	214.2	91.8	96.7

TEST NUMBER: P982681

CATALOG NUMBER: S122IW-B1240UB30-4F0-XX-W2A

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	620.4	642.5	621.7	94.2	97.9
115°	703.6	724.5	755.0	188.5	100.3
117.5°	775.9	800.3	821.1	646.1	325.5
120°	856.6	875.0	897.0	911.7	746.5
122.5°	925.1	944.7	969.2	976.5	977.8
125°	994.9	1010.8	1034.1	1042.6	1046.3
127.5°	1058.5	1075.7	1094.0	1106.3	1107.5
130°	1118.5	1138.1	1151.5	1165.0	1163.8
132.5°	1179.7	1195.6	1209.1	1220.1	1218.8
135°	1231.1	1250.7	1261.7	1273.9	1271.5
137.5°	1284.9	1299.6	1311.8	1324.1	1320.4
140°	1337.5	1347.3	1360.8	1371.8	1365.7
142.5°	1381.6	1390.2	1406.1	1415.9	1409.7
145°	1428.1	1426.9	1447.7	1456.2	1450.1
147.5°	1468.5	1464.8	1485.6	1491.7	1486.8
150°	1507.6	1499.1	1518.7	1526.0	1519.9
152.5°	1540.7	1530.9	1549.3	1556.6	1548.0
155°	1572.5	1561.5	1576.2	1583.5	1573.7
157.5°	1598.2	1588.4	1599.4	1608.0	1598.2
160°	1620.2	1612.9	1620.2	1627.6	1619.0
162.5°	1639.8	1632.5	1638.6	1647.2	1636.1
165°	1656.9	1649.6	1653.3	1661.8	1653.3
167.5°	1670.4	1663.1	1666.7	1675.3	1664.3
170°	1681.4	1674.1	1676.5	1685.1	1674.1
172.5°	1688.8	1681.4	1683.9	1692.4	1681.4
175°	1694.9	1686.3	1688.8	1697.3	1685.1
177.5°	1697.3	1688.8	1690.0	1698.5	1687.5
180°	1691.2	1691.2	1691.2	1691.2	1691.2



TEST NUMBER: P982681

CATALOG NUMBER: S122IW-B1240UB30-4F0-XX-W2A

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