

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: P1029181

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029181
REPORT IS A COMBINATION OF REPORTS P985069 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

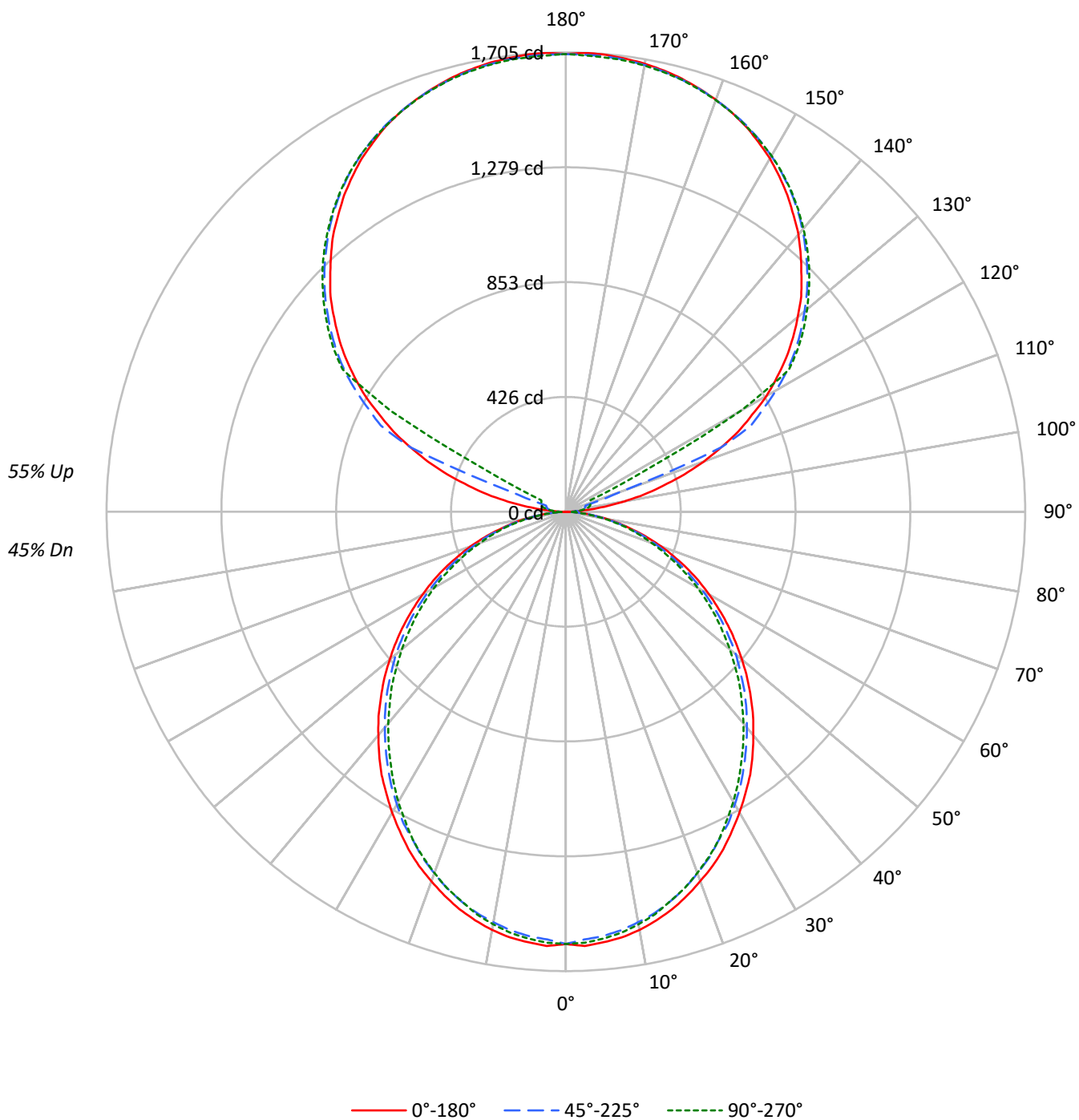
Lumens per Lamp: N/A
Luminaire Lumens: 9064.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 103.4
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: P1029181

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1029181

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_3500K

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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52
1	97	92	89	85	88	85	82	79	71	68	66	58	56	54	46	45	44
2	88	81	75	69	80	74	69	64	62	58	55	51	48	46	40	38	37
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27
5	67	56	48	42	62	52	44	39	43	38	34	36	32	29	29	26	23
6	62	50	42	36	57	46	39	34	39	34	29	32	28	25	26	23	21
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16
9	50	37	30	25	45	35	28	23	30	24	21	25	21	18	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25392	25392	25392
5°	25433	24202	24031
10°	25225	23099	22641
15°	24856	21987	21179
20°	24357	20779	19795
25°	23859	19517	18413
30°	23232	18330	16963
35°	22644	17079	15537
40°	21913	15843	14190
45°	21189	14619	12870
50°	20396	13372	11499
55°	19564	12039	10202
60°	18629	10597	8852
65°	17601	9129	7433
70°	16296	7525	6002
75°	14494	5800	4636
80°	12311	3942	2983
85°	8927	1836	1270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21189 cd/sqm

TEST NUMBER: P1029181

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	1.7
10°-20°	424.8	4.7
20°-30°	624.2	6.9
30°-40°	725.0	8.0
40°-50°	724.1	8.0
50°-60°	631.4	7.0
60°-70°	466.7	5.1
70°-80°	264.1	2.9
80°-90°	72.7	0.8
90°-100°	56.0	0.6
100°-110°	208.8	2.3
110°-120°	553.8	6.1
120°-130°	918.5	10.1
130°-140°	975.7	10.8
140°-150°	906.8	10.0
150°-160°	729.0	8.0
160°-170°	469.8	5.2
170°-180°	161.7	1.8
0°-30°	1200.0	13.2
0°-40°	1925.0	21.2
0°-60°	3280.5	36.2
0°-90°	4084.0	45.1
90°-120°	818.6	9.0
90°-150°	3619.6	39.9
90°-180°	4980.0	54.9
0°-180°	9064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1598	1581	1593	1590	152
15°	1527	1518	1498	1504	1496	430
25°	1382	1370	1343	1346	1343	636
35°	1192	1177	1152	1143	1135	745
45°	970	959	936	919	913	749
55°	734	725	706	688	680	656
65°	495	486	470	456	449	490
75°	259	256	248	239	242	277
85°	63	62	60	56	54	70
90°	1	15	25	31	33	8
95°	80	39	48	54	53	95
105°	374	410	75	88	93	399
115°	707	728	758	189	101	696
125°	999	1015	1039	1047	1051	891
135°	1236	1256	1267	1280	1277	955
145°	1434	1433	1454	1463	1457	897
155°	1580	1568	1583	1590	1581	728
165°	1664	1657	1661	1669	1661	470
175°	1702	1694	1696	1705	1693	162
180°	1699	1699	1699	1699	1699	

TEST NUMBER: P1029181

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1613.3	1605.6	1588.6	1604.1	1601.0
5°	1604.1	1597.9	1580.9	1593.3	1590.2
7.5°	1593.3	1584.0	1567.0	1579.4	1576.3
10°	1576.3	1565.5	1547.0	1559.3	1554.7
12.5°	1553.2	1543.9	1525.4	1533.1	1530.0
15°	1526.9	1517.7	1497.6	1503.8	1496.1
17.5°	1494.6	1485.3	1465.3	1473.0	1465.3
20°	1459.1	1449.8	1428.2	1432.9	1426.7
22.5°	1423.6	1409.7	1389.7	1389.7	1386.6
25°	1382.0	1369.6	1343.4	1346.5	1343.4
27.5°	1335.7	1324.9	1304.8	1300.2	1292.5
30°	1289.4	1277.1	1253.9	1249.3	1243.2
32.5°	1240.1	1230.8	1206.1	1196.9	1190.7
35°	1192.3	1176.8	1152.2	1142.9	1135.2
37.5°	1138.3	1124.4	1099.7	1088.9	1081.2
40°	1082.7	1070.4	1045.7	1031.8	1025.7
42.5°	1028.8	1016.4	991.7	976.3	967.1
45°	970.2	959.4	936.2	919.3	913.1
47.5°	913.1	902.3	877.6	860.6	851.4
50°	852.9	845.2	823.6	802.0	794.3
52.5°	794.3	783.5	763.5	746.5	735.7
55°	734.2	724.9	706.4	687.9	680.2
57.5°	674.0	666.3	646.3	627.7	621.6
60°	613.9	607.7	586.1	569.1	564.5
62.5°	555.3	544.5	529.0	513.6	507.4
65°	495.1	485.8	470.4	456.5	448.8
67.5°	433.4	425.7	411.8	401.0	394.8
70°	376.3	370.2	356.3	345.5	339.3
72.5°	317.7	311.6	303.8	293.1	288.4
75°	259.1	256.0	248.3	239.1	242.2
77.5°	206.7	200.5	197.4	192.8	188.2
80°	154.2	152.7	149.6	145.0	141.9
82.5°	104.9	104.9	103.3	97.2	97.2
85°	63.2	61.7	60.2	55.5	54.0
87.5°	27.8	24.7	21.6	17.0	15.4
90°	1.2	14.7	24.6	30.7	33.2
92.5°	30.7	25.8	29.5	32.0	33.2
95°	79.9	39.3	47.9	54.1	52.9
97.5°	143.8	43.0	62.7	66.4	67.6
100°	217.6	49.2	70.1	79.9	82.4
102.5°	298.7	296.2	72.5	86.0	89.7
105°	373.7	410.5	75.0	88.5	93.4
107.5°	460.9	491.7	77.4	91.0	95.9
110°	544.5	570.3	215.1	92.2	97.1

TEST NUMBER: P1029181

CATALOG NUMBER: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	623.2	645.3	624.4	94.6	98.3
115°	706.8	727.7	758.4	189.3	100.8
117.5°	779.3	803.9	824.8	649.0	327.0
120°	860.4	878.9	901.0	915.7	749.8
122.5°	929.2	948.9	973.5	980.9	982.1
125°	999.3	1015.3	1038.6	1047.2	1050.9
127.5°	1063.2	1080.4	1098.9	1111.2	1112.4
130°	1123.5	1143.1	1156.6	1170.2	1168.9
132.5°	1184.9	1200.9	1214.4	1225.5	1224.2
135°	1236.5	1256.2	1267.3	1279.6	1277.1
137.5°	1290.6	1305.4	1317.7	1330.0	1326.3
140°	1343.5	1353.3	1366.8	1377.9	1371.7
142.5°	1387.7	1396.3	1412.3	1422.1	1416.0
145°	1434.4	1433.2	1454.1	1462.7	1456.6
147.5°	1475.0	1471.3	1492.2	1498.4	1493.4
150°	1514.3	1505.7	1525.4	1532.8	1526.6
152.5°	1547.5	1537.7	1556.1	1563.5	1554.9
155°	1579.5	1568.4	1583.2	1590.5	1580.7
157.5°	1605.3	1595.5	1606.5	1615.1	1605.3
160°	1627.4	1620.0	1627.4	1634.8	1626.2
162.5°	1647.1	1639.7	1645.9	1654.5	1643.4
165°	1664.3	1656.9	1660.6	1669.2	1660.6
167.5°	1677.8	1670.4	1674.1	1682.7	1671.7
170°	1688.9	1681.5	1684.0	1692.6	1681.5
172.5°	1696.2	1688.9	1691.3	1699.9	1688.9
175°	1702.4	1693.8	1696.2	1704.9	1692.6
177.5°	1704.9	1696.2	1697.5	1706.1	1695.0
180°	1698.7	1698.7	1698.7	1698.7	1698.7

(END OF REPORT)