

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: P1033130

Luminaire Tested: S124DIW-B1020D1340UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033130
REPORT IS A COMBINATION OF REPORTS P996722 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B1020D1340UB30-4F0-XX-W2A-F1
Description: Define 4 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

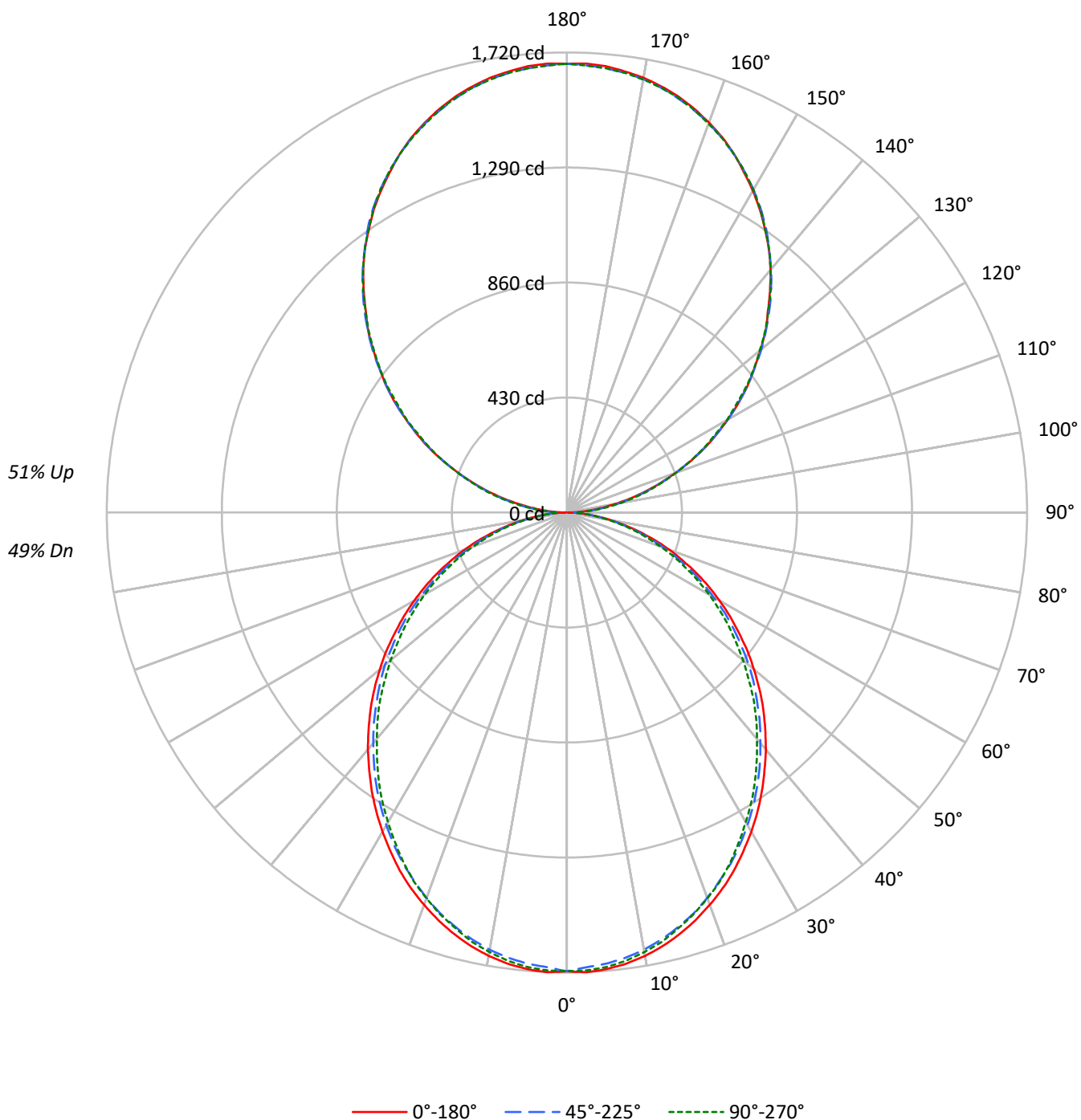
Lumens per Lamp: N/A
Luminaire Lumens: 9060.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 88.9
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: P1033130

CATALOG NUMBER: S124DIW-B1020D1340UB30-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1033130

CATALOG NUMBER: S124DIW-B1020D1340UB30-4F0-XX-W2A-F1

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	38	35	33
4	74	63	55	49	68	59	52	46	50	44	40	41	37	34	34	31	29
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25
6	63	50	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	19
8	54	41	34	28	49	39	32	27	33	28	24	28	24	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13985	13985	13985
5°	13997	13583	13599
10°	13878	13206	13113
15°	13679	12758	12565
20°	13425	12272	11997
25°	13139	11760	11386
30°	12794	11206	10715
35°	12437	10639	10067
40°	12064	10029	9377
45°	11673	9416	8733
50°	11241	8824	8018
55°	10771	8130	7309
60°	10291	7371	6570
65°	9739	6587	5738
70°	9105	5643	4845
75°	8158	4550	3881
80°	6951	3290	2729
85°	5399	1832	1469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11673 cd/sqm

TEST NUMBER: P1033130

CATALOG NUMBER: S124DIW-B1020D1340UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	1.8
10°-20°	455.4	5.0
20°-30°	670.3	7.4
30°-40°	779.1	8.6
40°-50°	779.0	8.6
50°-60°	681.4	7.5
60°-70°	505.9	5.6
70°-80°	287.0	3.2
80°-90°	85.8	0.9
90°-100°	109.3	1.2
100°-110°	327.5	3.6
110°-120°	556.4	6.1
120°-130°	733.8	8.1
130°-140°	824.1	9.1
140°-150°	810.0	8.9
150°-160°	681.3	7.5
160°-170°	453.3	5.0
170°-180°	158.7	1.8
0°-30°	1287.3	14.2
0°-40°	2066.5	22.8
0°-60°	3526.9	38.9
0°-90°	4405.6	48.6
90°-120°	993.2	11.0
90°-150°	3361.1	37.1
90°-180°	4654.0	51.4
0°-180°	9060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1714	1708	1693	1708	1705	163
15°	1631	1626	1605	1613	1609	460
25°	1477	1468	1448	1450	1444	680
35°	1271	1262	1242	1233	1226	795
45°	1038	1028	1006	991	987	800
55°	785	781	761	745	737	703
65°	532	525	511	498	491	526
75°	283	276	269	264	262	300
85°	74	74	72	72	70	80
90°	4	18	28	36	39	11
95°	78	90	99	102	102	84
105°	302	304	309	313	317	321
115°	566	566	563	562	560	558
125°	824	824	822	820	817	734
135°	1062	1070	1070	1068	1064	822
145°	1291	1296	1297	1296	1292	808
155°	1479	1479	1478	1483	1478	681
165°	1610	1606	1604	1611	1606	454
175°	1675	1668	1667	1676	1667	159
180°	1678	1678	1678	1678	1678	

TEST NUMBER: P1033130

CATALOG NUMBER: S124DIW-B1020D1340UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1715.0	1715.0	1715.0	1715.0	1715.0
2.5°	1720.5	1716.4	1701.3	1715.0	1713.7
5°	1713.7	1708.2	1693.1	1708.2	1705.4
7.5°	1701.3	1695.8	1679.3	1691.7	1690.3
10°	1683.4	1677.9	1660.1	1671.1	1668.3
12.5°	1660.1	1654.6	1635.3	1647.7	1643.6
15°	1631.2	1625.7	1605.1	1613.4	1609.2
17.5°	1598.2	1591.4	1572.1	1577.6	1574.9
20°	1561.1	1554.3	1533.6	1537.8	1535.0
22.5°	1521.3	1511.7	1491.0	1499.3	1493.8
25°	1477.3	1467.7	1448.4	1449.8	1444.3
27.5°	1427.8	1418.2	1400.3	1397.6	1390.7
30°	1378.4	1367.4	1349.5	1344.0	1337.1
32.5°	1326.1	1316.5	1297.3	1290.4	1283.5
35°	1271.2	1261.5	1242.3	1232.7	1225.8
37.5°	1213.5	1205.2	1184.6	1175.0	1165.4
40°	1157.1	1146.1	1125.5	1111.8	1104.9
42.5°	1096.6	1091.1	1067.8	1051.3	1047.2
45°	1037.5	1027.9	1005.9	990.8	986.7
47.5°	975.7	968.8	948.2	931.7	920.7
50°	912.5	907.0	887.8	868.5	860.3
52.5°	850.7	843.8	823.2	806.7	795.7
55°	784.7	780.6	761.3	744.8	736.6
57.5°	722.8	718.7	699.5	683.0	674.7
60°	658.3	651.4	633.5	621.2	614.3
62.5°	595.0	589.5	570.3	559.3	552.4
65°	531.8	525.0	511.2	497.5	490.6
67.5°	467.2	461.7	448.0	434.3	432.9
70°	408.1	398.5	387.5	376.5	372.4
72.5°	344.9	335.3	327.1	318.8	314.7
75°	283.1	276.2	269.4	263.9	262.5
77.5°	222.6	219.9	213.0	211.6	207.5
80°	169.0	164.9	162.2	159.4	158.0
82.5°	116.8	115.4	115.4	114.1	112.7
85°	74.2	74.2	71.5	71.5	70.1
87.5°	35.7	34.4	33.0	33.0	33.0
90°	3.9	18.2	28.5	36.3	38.9
92.5°	33.7	50.6	57.1	61.0	62.3
95°	77.8	89.5	98.6	102.5	102.5
97.5°	124.5	134.9	145.3	150.5	150.5
100°	181.6	186.8	198.5	201.1	201.1
102.5°	241.3	242.6	253.0	256.9	258.2
105°	302.3	303.6	308.8	312.7	316.6
107.5°	365.9	367.2	368.5	373.6	372.3
110°	430.7	433.3	432.0	429.4	433.3



TEST NUMBER: P1033130

CATALOG NUMBER: S124DIW-B1020D1340UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	498.2	498.2	495.6	495.6	495.6
115°	565.6	565.6	563.1	561.8	560.5
117.5°	629.2	629.2	627.9	624.0	620.1
120°	692.8	698.0	694.1	687.6	690.2
122.5°	759.0	760.3	759.0	755.1	748.6
125°	823.8	823.8	822.5	819.9	817.3
127.5°	882.2	886.1	883.5	880.9	879.6
130°	944.5	948.4	948.4	945.8	940.6
132.5°	1008.0	1010.6	1009.3	1006.8	1005.5
135°	1062.5	1070.3	1070.3	1067.7	1063.8
137.5°	1123.5	1127.4	1130.0	1126.1	1127.4
140°	1184.5	1187.1	1187.1	1185.8	1184.5
142.5°	1240.3	1242.9	1241.6	1241.6	1241.6
145°	1290.9	1296.1	1297.4	1296.1	1292.2
147.5°	1342.8	1349.3	1348.0	1346.7	1345.4
150°	1389.5	1394.7	1394.7	1394.7	1393.4
152.5°	1433.6	1436.2	1437.5	1441.4	1437.5
155°	1479.0	1479.0	1477.7	1482.9	1477.7
157.5°	1517.9	1515.3	1515.3	1519.2	1515.3
160°	1551.6	1550.3	1549.0	1552.9	1546.5
162.5°	1582.8	1578.9	1577.6	1585.4	1578.9
165°	1610.0	1606.1	1603.5	1611.3	1606.1
167.5°	1632.1	1626.9	1626.9	1634.7	1626.9
170°	1650.2	1643.8	1645.1	1652.8	1643.8
172.5°	1663.2	1658.0	1658.0	1667.1	1658.0
175°	1674.9	1668.4	1667.1	1676.2	1667.1
177.5°	1680.1	1673.6	1673.6	1682.7	1672.3
180°	1677.5	1677.5	1677.5	1677.5	1677.5

(END OF REPORT)