

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: P1031275

Luminaire Tested: S123DIW-B1000D1030UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031275
REPORT IS A COMBINATION OF REPORTS P990556 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1000D1030UB30-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

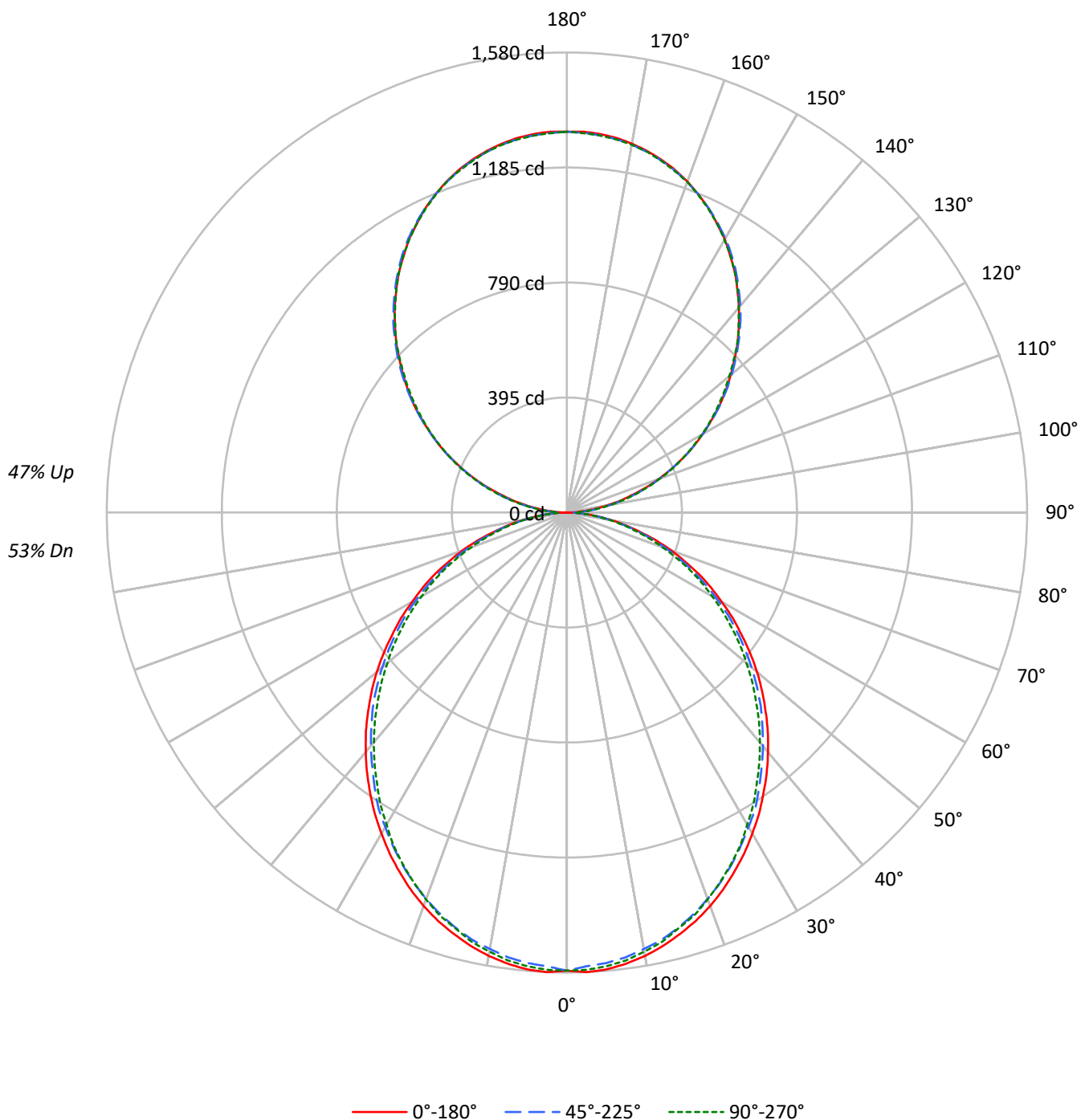
Lumens per Lamp: N/A
Luminaire Lumens: 7722.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78.3
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: P1031275

CATALOG NUMBER: S123DIW-B1000D1030UB30-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1031275

CATALOG NUMBER: S123DIW-B1000D1030UB30-4F0-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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59
1	98	94	90	87	91	87	84	81	74	72	70	63	61	59	52	51	50
2	90	82	76	71	83	76	71	66	65	61	58	55	52	50	46	44	42
3	82	72	65	59	75	67	61	55	58	53	48	49	45	42	40	38	36
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	31
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	30	26	23
7	58	46	38	32	54	43	36	31	37	32	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19
9	51	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	21	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16937	16937	16937
5°	16979	16352	16328
10°	16828	15798	15636
15°	16593	15222	14883
20°	16326	14585	14137
25°	15978	13910	13339
30°	15598	13212	12499
35°	15200	12498	11666
40°	14784	11751	10845
45°	14325	11021	9988
50°	13859	10209	9129
55°	13262	9362	8257
60°	12647	8428	7329
65°	12067	7417	6363
70°	11235	6297	5234
75°	10035	4987	4062
80°	8665	3505	2873
85°	6762	1882	1438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14325 cd/sqm

TEST NUMBER: P1031275

CATALOG NUMBER: S123DIW-B1000D1030UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	1.9
10°-20°	418.8	5.4
20°-30°	618.6	8.0
30°-40°	722.5	9.4
40°-50°	726.3	9.4
50°-60°	638.0	8.3
60°-70°	475.2	6.2
70°-80°	270.4	3.5
80°-90°	79.6	1.0
90°-100°	84.2	1.1
100°-110°	254.8	3.3
110°-120°	433.9	5.6
120°-130°	570.8	7.4
130°-140°	641.6	8.3
140°-150°	630.7	8.2
150°-160°	531.0	6.9
160°-170°	353.5	4.6
170°-180°	123.8	1.6
0°-30°	1185.8	15.4
0°-40°	1908.2	24.7
0°-60°	3272.5	42.4
0°-90°	4097.7	53.1
90°-120°	772.9	10.0
90°-150°	2615.9	33.9
90°-180°	3624.0	46.9
0°-180°	7722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1575	1568	1553	1567	1564	149
15°	1499	1494	1476	1487	1479	423
25°	1361	1353	1335	1337	1333	627
35°	1177	1169	1151	1143	1136	736
45°	965	959	942	925	919	745
55°	732	731	713	698	691	656
65°	499	492	479	468	464	493
75°	264	258	254	248	244	282
85°	70	68	68	65	65	75
90°	1	11	25	29	31	9
95°	61	68	76	80	80	67
105°	231	233	242	242	244	247
115°	437	440	438	439	438	432
125°	639	642	640	636	632	570
135°	829	835	834	830	828	639
145°	1006	1008	1011	1010	1006	628
155°	1152	1152	1153	1157	1150	530
165°	1255	1252	1252	1258	1250	354
175°	1305	1301	1301	1307	1300	124
180°	1308	1308	1308	1308	1308	

TEST NUMBER: P1031275

CATALOG NUMBER: S123DIW-B1000D1030UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.5	1573.5	1573.5	1573.5	1573.5
2.5°	1580.2	1574.8	1559.9	1573.5	1572.1
5°	1574.8	1568.0	1553.2	1566.7	1564.0
7.5°	1562.6	1555.9	1541.0	1553.2	1551.8
10°	1546.4	1539.6	1522.0	1534.2	1531.5
12.5°	1524.7	1519.3	1503.1	1511.2	1509.9
15°	1499.0	1493.6	1476.0	1486.9	1478.7
17.5°	1470.6	1463.9	1446.3	1454.4	1451.7
20°	1438.2	1430.0	1412.5	1417.9	1413.8
22.5°	1401.6	1393.5	1375.9	1380.0	1374.6
25°	1361.0	1352.9	1335.3	1336.7	1332.6
27.5°	1319.1	1311.0	1292.0	1293.4	1289.3
30°	1273.1	1266.3	1247.4	1247.4	1237.9
32.5°	1227.1	1217.6	1204.1	1194.6	1190.6
35°	1177.0	1168.9	1151.3	1143.2	1136.5
37.5°	1127.0	1116.2	1098.6	1089.1	1085.0
40°	1074.2	1066.1	1047.2	1036.3	1030.9
42.5°	1021.5	1012.0	993.0	982.2	976.8
45°	964.6	959.2	941.6	925.4	918.6
47.5°	909.2	901.0	884.8	868.6	863.2
50°	852.3	845.6	828.0	813.1	805.0
52.5°	792.8	788.8	769.8	757.6	749.5
55°	731.9	730.6	713.0	698.1	691.3
57.5°	675.1	669.7	656.2	642.6	634.5
60°	612.9	611.5	595.3	583.1	576.3
62.5°	557.4	553.3	537.1	524.9	520.9
65°	499.2	492.5	478.9	468.1	464.1
67.5°	437.0	431.6	420.8	411.3	405.9
70°	381.5	373.4	365.3	355.8	349.1
72.5°	323.3	317.9	308.5	300.3	297.6
75°	263.8	258.4	254.4	247.6	243.5
77.5°	211.1	208.4	202.9	197.5	197.5
80°	159.6	155.6	152.9	151.5	151.5
82.5°	109.6	109.6	109.6	106.9	105.5
85°	70.4	67.6	67.6	64.9	64.9
87.5°	35.2	31.1	29.8	28.4	28.4
90°	1.0	11.3	24.7	28.8	30.8
92.5°	30.8	37.0	43.2	46.2	44.2
95°	60.6	67.8	76.0	80.1	80.1
97.5°	99.7	104.8	111.0	116.1	115.1
100°	139.7	145.9	151.0	154.1	156.2
102.5°	186.0	189.1	196.3	199.3	198.3
105°	231.2	233.2	242.5	242.5	244.5
107.5°	284.6	285.6	289.8	292.8	291.8
110°	333.9	336.0	338.0	342.2	340.1

TEST NUMBER: P1031275

CATALOG NUMBER: S123DIW-B1000D1030UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	385.3	386.3	386.3	391.5	391.5
115°	436.7	439.8	437.7	438.7	437.7
117.5°	489.1	490.1	488.1	488.1	485.0
120°	537.4	543.5	538.4	537.4	535.3
122.5°	587.7	591.8	589.8	586.7	583.6
125°	639.1	642.2	640.1	636.0	631.9
127.5°	686.4	692.5	690.5	684.3	680.2
130°	733.6	741.9	738.8	734.7	727.5
132.5°	780.9	789.1	787.1	781.9	776.8
135°	829.2	835.4	834.3	830.2	828.2
137.5°	873.4	878.5	881.6	876.5	873.4
140°	919.6	924.7	925.8	924.7	917.6
142.5°	961.7	966.9	968.9	967.9	962.8
145°	1005.9	1008.0	1011.1	1010.0	1005.9
147.5°	1043.9	1048.0	1051.1	1051.1	1045.0
150°	1084.0	1086.1	1088.1	1088.1	1082.0
152.5°	1116.9	1120.0	1121.0	1123.1	1117.9
155°	1151.8	1151.8	1152.8	1157.0	1149.8
157.5°	1181.6	1180.6	1181.6	1185.7	1179.6
160°	1209.4	1207.3	1207.3	1212.4	1208.3
162.5°	1234.0	1230.9	1232.0	1237.1	1229.9
165°	1254.6	1251.5	1251.5	1257.7	1250.5
167.5°	1272.0	1267.9	1269.0	1275.1	1269.0
170°	1286.4	1282.3	1282.3	1289.5	1282.3
172.5°	1297.7	1293.6	1293.6	1299.8	1292.6
175°	1304.9	1300.8	1300.8	1307.0	1299.8
177.5°	1309.0	1304.9	1304.9	1311.1	1303.9
180°	1308.0	1308.0	1308.0	1308.0	1308.0

(END OF REPORT)