

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: P1031990

Luminaire Tested: S123RDIW-B1000D1030UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031990
REPORT IS A COMBINATION OF REPORTS P993742 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1000D1030UB30-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

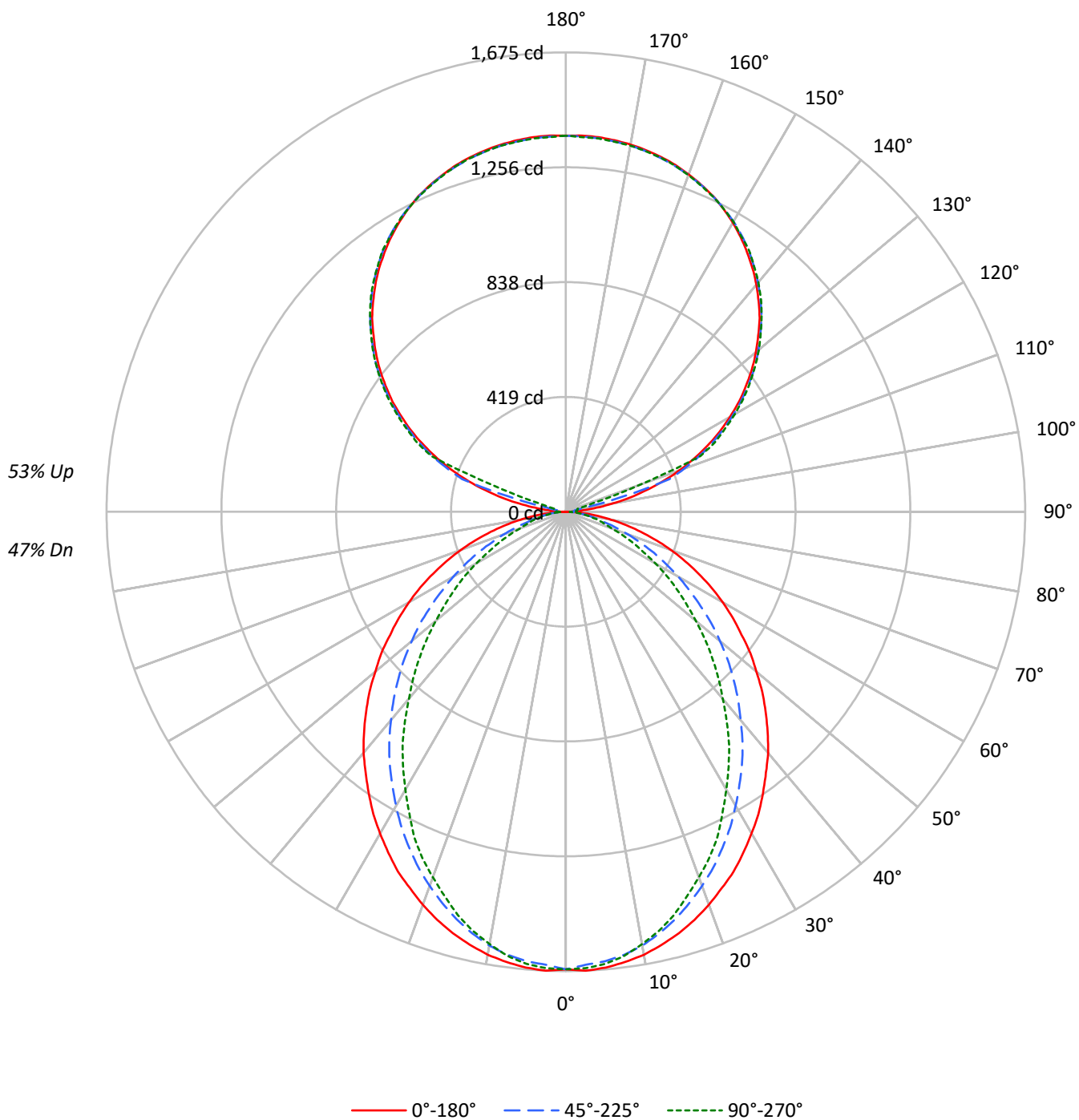
Lumens per Lamp: N/A
Luminaire Lumens: 7952.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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Luminous Intensity Polar Plot



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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	82	82	82	67	67	67	54	54	54
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39
3	81	72	65	59	75	67	61	56	56	52	48	47	44	41	38	36	34
4	75	64	56	50	68	59	53	47	50	45	41	42	38	35	34	31	29
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23
7	58	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20
8	54	42	35	29	50	39	32	28	34	28	25	29	24	21	24	21	18
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17
10	47	35	28	24	44	33	27	22	29	23	20	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17957	17957	17957
5°	17987	17322	17276
10°	17845	16671	16343
15°	17614	15866	15321
20°	17310	14990	14179
25°	16997	14081	13097
30°	16594	13112	11818
35°	16180	12162	10653
40°	15791	11130	9366
45°	15292	10120	8209
50°	14741	9043	7011
55°	14171	7889	5914
60°	13625	6705	4801
65°	12921	5491	3747
70°	12033	4151	2678
75°	10758	2811	2122
80°	9180	1953	1489
85°	6887	1055	780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15292 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	2.0
10°-20°	436.3	5.5
20°-30°	628.2	7.9
30°-40°	707.4	8.9
40°-50°	676.7	8.5
50°-60°	553.9	7.0
60°-70°	373.5	4.7
70°-80°	187.3	2.4
80°-90°	51.7	0.7
90°-100°	48.4	0.6
100°-110°	233.8	2.9
110°-120°	572.9	7.2
120°-130°	727.3	9.1
130°-140°	776.9	9.8
140°-150°	726.5	9.1
150°-160°	586.0	7.4
160°-170°	378.2	4.8
170°-180°	130.3	1.6
0°-30°	1221.3	15.4
0°-40°	1928.7	24.3
0°-60°	3159.3	39.7
0°-90°	3771.7	47.4
90°-120°	855.0	10.8
90°-150°	3085.8	38.8
90°-180°	4180.0	52.6
0°-180°	7952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1668	1662	1645	1658	1655	158
15°	1591	1576	1538	1532	1522	448
25°	1448	1414	1352	1323	1308	666
35°	1253	1204	1120	1062	1038	784
45°	1030	969	865	788	755	795
55°	782	716	601	522	495	701
65°	534	460	354	288	273	529
75°	283	218	143	130	127	301
85°	72	42	38	35	35	79
90°	1	11	24	28	31	8
95°	62	20	32	39	39	74
105°	304	315	223	43	45	322
115°	570	576	585	595	599	562
125°	803	811	815	817	819	717
135°	999	1006	1010	1013	1010	769
145°	1153	1160	1162	1164	1164	722
155°	1270	1268	1269	1274	1268	585
165°	1340	1337	1336	1344	1337	379
175°	1371	1366	1367	1374	1366	130
180°	1371	1371	1371	1371	1371	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1668.3	1668.3	1668.3	1668.3	1668.3
2.5°	1675.1	1669.7	1653.4	1668.3	1665.6
5°	1668.3	1661.5	1645.3	1657.5	1654.8
7.5°	1656.1	1649.4	1629.1	1637.2	1633.1
10°	1639.9	1630.4	1606.1	1607.4	1600.7
12.5°	1616.9	1606.1	1574.9	1573.6	1565.5
15°	1591.2	1576.3	1538.4	1531.6	1522.2
17.5°	1560.1	1543.8	1496.5	1482.9	1469.4
20°	1524.9	1503.2	1451.8	1434.2	1418.0
22.5°	1485.6	1459.9	1404.5	1381.5	1366.6
25°	1447.8	1413.9	1351.7	1323.3	1308.4
27.5°	1401.8	1365.2	1297.6	1259.7	1236.7
30°	1354.4	1313.8	1238.0	1192.0	1170.4
32.5°	1307.0	1259.7	1178.5	1127.1	1104.1
35°	1252.9	1204.2	1120.3	1062.1	1037.8
37.5°	1198.8	1146.0	1058.1	993.1	963.4
40°	1147.4	1087.8	991.8	921.4	890.3
42.5°	1089.2	1029.7	929.5	851.1	824.0
45°	1029.7	968.8	864.6	787.5	755.0
47.5°	971.5	903.8	801.0	717.1	688.7
50°	906.5	842.9	733.4	649.5	618.3
52.5°	848.4	778.0	669.8	581.8	554.7
55°	782.1	715.8	600.8	522.3	495.2
57.5°	722.5	650.8	534.5	460.0	437.0
60°	660.3	585.9	473.6	400.5	377.5
62.5°	598.0	523.6	411.3	343.7	319.3
65°	534.5	460.0	354.5	288.2	273.3
67.5°	470.9	395.1	292.3	242.2	226.0
70°	408.6	335.6	240.8	193.5	178.6
72.5°	346.4	274.7	190.8	154.2	150.2
75°	282.8	217.8	143.4	129.9	127.2
77.5°	224.6	165.1	112.3	104.2	101.5
80°	169.1	113.7	85.2	81.2	78.5
82.5°	116.4	70.4	60.9	56.8	56.8
85°	71.7	41.9	37.9	35.2	35.2
87.5°	32.5	17.6	17.6	16.2	14.9
90°	1.0	11.2	24.4	28.5	30.6
92.5°	23.4	17.3	26.5	33.6	34.6
95°	62.1	20.4	31.6	38.7	38.7
97.5°	113.1	84.6	32.6	40.7	41.8
100°	172.2	192.5	33.6	41.8	42.8
102.5°	239.4	252.6	75.4	41.8	43.8
105°	303.6	314.8	223.1	42.8	44.8
107.5°	371.8	381.0	396.3	239.4	105.9
110°	440.1	448.2	459.4	425.8	280.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	505.3	512.4	523.6	532.8	530.8
115°	569.5	575.6	584.8	594.9	599.0
117.5°	632.6	639.8	644.9	653.0	654.0
120°	690.7	699.9	702.9	711.1	711.1
122.5°	749.8	756.9	761.0	766.1	767.1
125°	802.8	810.9	815.0	817.0	819.1
127.5°	855.7	863.9	869.0	872.0	870.0
130°	904.6	912.8	916.9	920.9	918.9
132.5°	951.5	959.6	962.7	966.8	963.7
135°	999.4	1005.5	1009.6	1012.6	1009.6
137.5°	1040.1	1048.3	1050.3	1055.4	1053.4
140°	1080.9	1087.0	1090.0	1094.1	1092.1
142.5°	1118.6	1124.7	1127.7	1130.8	1127.7
145°	1153.2	1160.3	1162.4	1164.4	1164.4
147.5°	1186.8	1191.9	1194.0	1196.0	1190.9
150°	1217.4	1220.4	1222.5	1224.5	1221.5
152.5°	1244.9	1245.9	1246.9	1251.0	1245.9
155°	1270.4	1268.3	1269.3	1274.4	1268.3
157.5°	1290.7	1290.7	1289.7	1295.8	1287.7
160°	1309.1	1308.1	1307.0	1313.1	1306.0
162.5°	1326.4	1323.3	1322.3	1329.4	1323.3
165°	1339.6	1336.6	1335.6	1343.7	1336.6
167.5°	1350.8	1346.8	1346.8	1354.9	1346.8
170°	1360.0	1355.9	1355.9	1364.1	1355.9
172.5°	1366.1	1361.0	1362.0	1370.2	1361.0
175°	1371.2	1366.1	1367.1	1374.3	1366.1
177.5°	1373.3	1368.2	1369.2	1377.3	1367.1
180°	1371.2	1371.2	1371.2	1371.2	1371.2

(END OF REPORT)