

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: P1032009

Luminaire Tested: S123RDIW-B1000D1320UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032009
REPORT IS A COMBINATION OF REPORTS P993787 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1000D1320UB30-4F0-XX-W2A-F1
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

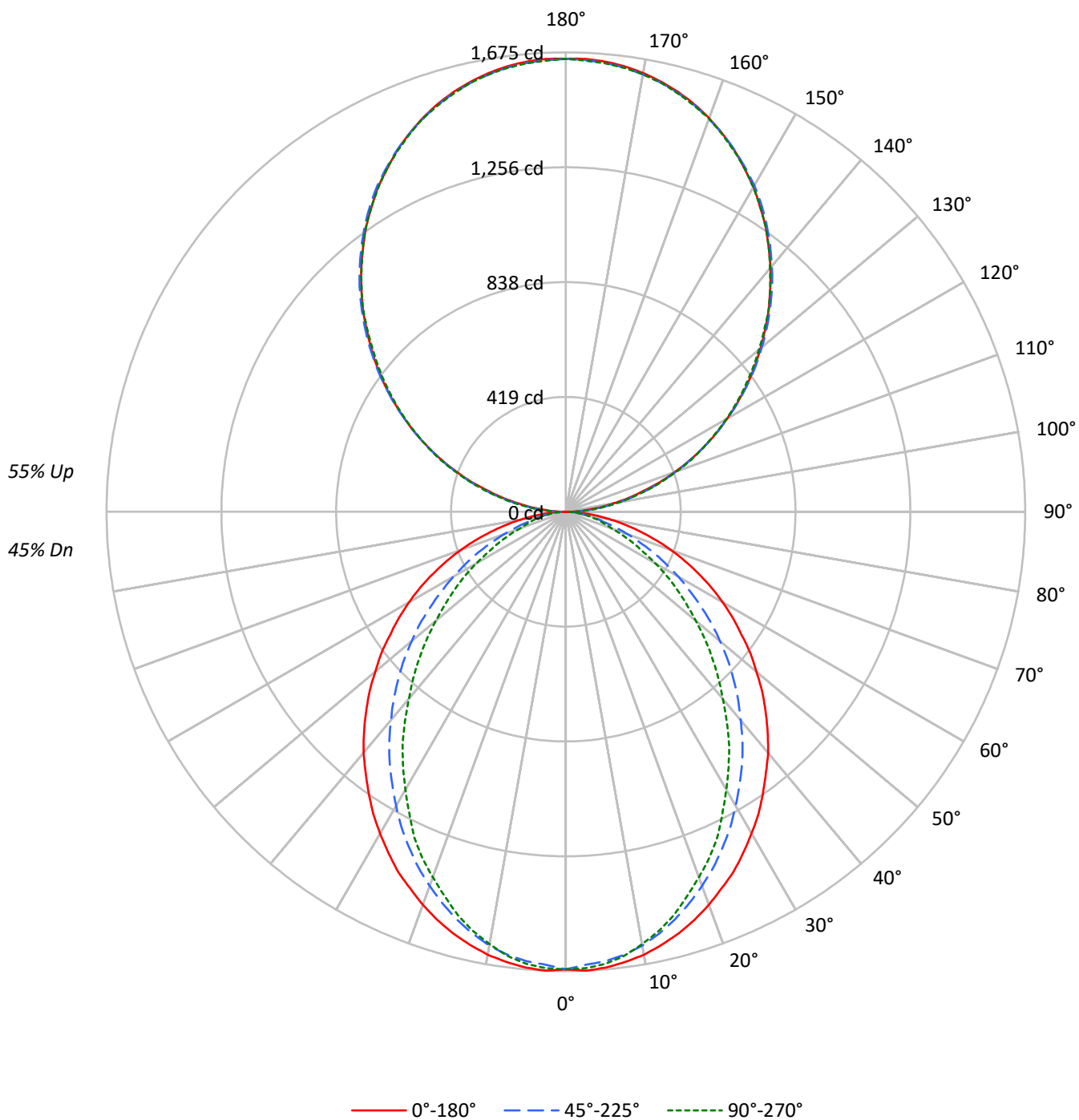
Lumens per Lamp: N/A
Luminaire Lumens: 8349.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44
2	89	81	75	70	81	75	70	65	63	59	56	51	49	47	41	39	38
3	81	72	65	59	74	66	60	55	55	51	47	46	42	40	37	34	32
4	74	64	56	50	68	59	52	47	49	44	40	41	37	34	33	30	28
5	68	57	49	43	62	52	46	40	44	39	35	37	33	30	30	27	25
6	63	51	43	37	57	47	40	35	40	35	31	33	29	26	27	24	22
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	31	26	46	36	29	24	30	25	22	26	22	19	21	18	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14

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	1.9
10°-20°	436.3	5.2
20°-30°	628.2	7.5
30°-40°	707.4	8.5
40°-50°	676.7	8.1
50°-60°	553.9	6.6
60°-70°	373.5	4.5
70°-80°	187.3	2.2
80°-90°	52.5	0.6
90°-100°	106.3	1.3
100°-110°	321.8	3.9
110°-120°	547.8	6.6
120°-130°	720.7	8.6
130°-140°	810.1	9.7
140°-150°	796.4	9.5
150°-160°	670.5	8.0
160°-170°	446.4	5.3
170°-180°	156.3	1.9
0°-30°	1221.3	14.6
0°-40°	1928.7	23.1
0°-60°	3159.3	37.8
0°-90°	3772.5	45.2
90°-120°	976.0	11.7
90°-150°	3303.2	39.6
90°-180°	4576.0	54.8
0°-180°	8349.0	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	14	31	36	39	10
95°	77	86	96	101	101	84
105°	292	294	306	306	309	313
115°	551	555	553	554	553	546
125°	807	811	808	803	798	720
135°	1047	1055	1054	1048	1046	807
145°	1270	1273	1277	1275	1270	793
155°	1454	1454	1456	1461	1452	670
165°	1584	1580	1580	1588	1579	447
175°	1648	1643	1643	1650	1641	157
180°	1652	1652	1652	1652	1652	

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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°	1.3	14.3	31.1	36.3	38.9
92.5°	38.9	46.7	54.5	58.4	55.8
95°	76.6	85.6	96.0	101.2	101.2
97.5°	125.9	132.3	140.1	146.6	145.3
100°	176.5	184.2	190.7	194.6	197.2
102.5°	234.8	238.7	247.8	251.7	250.4
105°	291.9	294.5	306.2	306.2	308.8
107.5°	359.4	360.7	365.9	369.8	368.5
110°	421.7	424.3	426.9	432.1	429.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	486.6	487.8	487.8	494.3	494.3
115°	551.4	555.3	552.7	554.0	552.7
117.5°	617.6	618.9	616.3	616.3	612.4
120°	678.6	686.4	679.9	678.6	676.0
122.5°	742.2	747.3	744.7	740.9	737.0
125°	807.0	810.9	808.3	803.1	797.9
127.5°	866.7	874.5	871.9	864.1	858.9
130°	926.4	936.8	932.9	927.7	918.6
132.5°	986.1	996.5	993.9	987.4	980.9
135°	1047.1	1054.8	1053.5	1048.4	1045.8
137.5°	1102.9	1109.3	1113.2	1106.7	1102.9
140°	1161.2	1167.7	1169.0	1167.7	1158.6
142.5°	1214.4	1220.9	1223.5	1222.2	1215.7
145°	1270.2	1272.8	1276.7	1275.4	1270.2
147.5°	1318.2	1323.4	1327.3	1327.3	1319.5
150°	1368.8	1371.4	1374.0	1374.0	1366.2
152.5°	1410.4	1414.2	1415.5	1418.1	1411.6
155°	1454.5	1454.5	1455.8	1461.0	1451.9
157.5°	1492.1	1490.8	1492.1	1497.3	1489.5
160°	1527.1	1524.5	1524.5	1531.0	1525.8
162.5°	1558.3	1554.4	1555.7	1562.2	1553.1
165°	1584.2	1580.3	1580.3	1588.1	1579.0
167.5°	1606.3	1601.1	1602.4	1610.2	1602.4
170°	1624.4	1619.2	1619.2	1628.3	1619.2
172.5°	1638.7	1633.5	1633.5	1641.3	1632.2
175°	1647.8	1642.6	1642.6	1650.4	1641.3
177.5°	1653.0	1647.8	1647.8	1655.6	1646.5
180°	1651.7	1651.7	1651.7	1651.7	1651.7

(END OF REPORT)