

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: P1031033

Luminaire Tested: S123RDIW-B1000D1320UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031033
REPORT IS A COMBINATION OF REPORTS P993782 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1000D1320UB2750-4F0-XX-W2A-F_5000K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

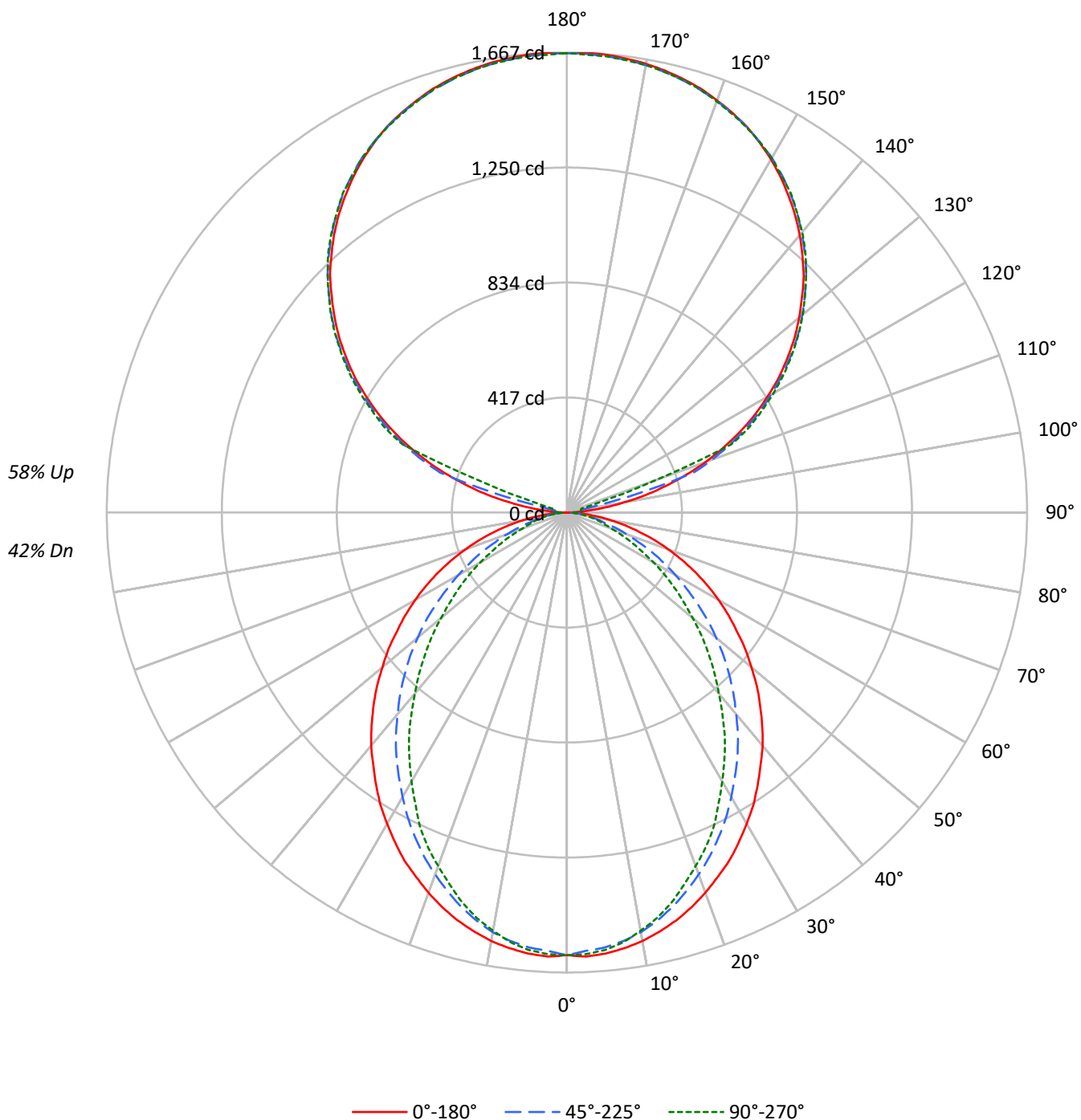
Lumens per Lamp: N/A
Luminaire Lumens: 8703.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41
2	88	81	75	70	80	74	69	64	61	57	54	49	47	45	38	37	35
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	34	32	30
4	73	63	55	50	67	58	51	46	48	43	39	39	36	33	31	28	26
5	67	56	48	43	61	52	45	40	43	38	34	35	31	28	28	25	23
6	62	50	43	37	57	46	40	35	39	34	30	32	28	25	25	23	20
7	58	46	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	21	18	16
9	50	38	30	26	45	35	28	24	30	24	21	24	21	18	20	17	15
10	46	35	28	23	42	32	26	22	27	22	19	23	19	16	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17266	17266	17266
5°	17295	16656	16611
10°	17159	16030	15714
15°	16936	15255	14731
20°	16643	14414	13633
25°	16343	13539	12593
30°	15956	12608	11363
35°	15558	11694	10244
40°	15183	10701	9006
45°	14704	9730	7894
50°	14175	8694	6743
55°	13626	7584	5687
60°	13101	6446	4616
65°	12423	5280	3603
70°	11570	3992	2574
75°	10343	2703	2040
80°	8827	1880	1432
85°	6628	1014	749

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14704 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.7
10°-20°	419.5	4.8
20°-30°	604.0	6.9
30°-40°	680.2	7.8
40°-50°	650.6	7.5
50°-60°	532.6	6.1
60°-70°	359.1	4.1
70°-80°	180.1	2.1
80°-90°	50.4	0.6
90°-100°	58.7	0.7
100°-110°	283.9	3.3
110°-120°	695.6	8.0
120°-130°	883.1	10.1
130°-140°	943.4	10.8
140°-150°	882.1	10.1
150°-160°	711.5	8.2
160°-170°	459.2	5.3
170°-180°	158.2	1.8
0°-30°	1174.3	13.5
0°-40°	1854.5	21.3
0°-60°	3037.7	34.9
0°-90°	3627.3	41.7
90°-120°	1038.2	11.9
90°-150°	3746.7	43.1
90°-180°	5076.0	58.3
0°-180°	8703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1598	1582	1594	1591	152
15°	1530	1516	1479	1473	1464	431
25°	1392	1360	1300	1272	1258	640
35°	1205	1158	1077	1021	998	754
45°	990	932	831	757	726	764
55°	752	688	578	502	476	674
65°	514	442	341	277	263	509
75°	272	210	138	125	122	290
85°	69	40	36	34	34	76
90°	1	14	30	35	37	8
95°	76	25	38	47	47	90
105°	369	382	271	52	54	391
115°	692	699	710	722	727	683
125°	975	985	990	992	994	871
135°	1213	1221	1226	1230	1226	934
145°	1400	1409	1411	1414	1414	877
155°	1542	1540	1541	1547	1540	711
165°	1627	1623	1622	1632	1623	460
175°	1665	1659	1660	1669	1659	158
180°	1665	1665	1665	1665	1665	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1610.6	1605.4	1589.8	1604.1	1601.5
5°	1604.1	1597.6	1582.0	1593.7	1591.1
7.5°	1592.4	1585.9	1566.4	1574.2	1570.3
10°	1576.8	1567.7	1544.3	1545.6	1539.1
12.5°	1554.7	1544.3	1514.4	1513.1	1505.2
15°	1530.0	1515.7	1479.2	1472.7	1463.6
17.5°	1500.0	1484.4	1438.9	1425.9	1412.9
20°	1466.2	1445.4	1396.0	1379.1	1363.4
22.5°	1428.5	1403.8	1350.4	1328.3	1314.0
25°	1392.1	1359.5	1299.7	1272.4	1258.1
27.5°	1347.8	1312.7	1247.7	1211.2	1189.1
30°	1302.3	1263.3	1190.4	1146.2	1125.4
32.5°	1256.8	1211.2	1133.2	1083.7	1061.6
35°	1204.7	1157.9	1077.2	1021.3	997.9
37.5°	1152.7	1101.9	1017.4	954.9	926.3
40°	1103.2	1046.0	953.6	886.0	856.1
42.5°	1047.3	990.1	893.8	818.3	792.3
45°	990.1	931.5	831.3	757.2	726.0
47.5°	934.1	869.1	770.2	689.5	662.2
50°	871.7	810.5	705.1	624.5	594.6
52.5°	815.7	748.1	644.0	559.4	533.4
55°	752.0	688.2	577.6	502.2	476.2
57.5°	694.7	625.8	513.9	442.3	420.2
60°	634.9	563.3	455.3	385.1	363.0
62.5°	575.0	503.5	395.5	330.5	307.0
65°	513.9	442.3	340.9	277.1	262.8
67.5°	452.7	379.9	281.0	232.9	217.3
70°	392.9	322.6	231.6	186.0	171.7
72.5°	333.1	264.1	183.4	148.3	144.4
75°	271.9	209.5	137.9	124.9	122.3
77.5°	216.0	158.7	108.0	100.2	97.6
80°	162.6	109.3	82.0	78.1	75.5
82.5°	111.9	67.7	58.5	54.6	54.6
85°	69.0	40.3	36.4	33.8	33.8
87.5°	31.2	16.9	16.9	15.6	14.3
90°	1.2	13.6	29.7	34.6	37.1
92.5°	28.4	21.0	32.2	40.8	42.1
95°	75.5	24.7	38.3	47.0	47.0
97.5°	137.3	102.7	39.6	49.5	50.7
100°	209.0	233.8	40.8	50.7	52.0
102.5°	290.7	306.8	91.5	50.7	53.2
105°	368.6	382.2	270.9	52.0	54.4
107.5°	451.5	462.6	481.2	290.7	128.6
110°	534.4	544.3	557.9	517.0	340.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	613.5	622.2	635.8	646.9	644.4
115°	691.5	698.9	710.0	722.4	727.3
117.5°	768.1	776.8	783.0	792.9	794.1
120°	838.6	849.8	853.5	863.4	863.4
122.5°	910.4	919.1	924.0	930.2	931.4
125°	974.7	984.6	989.6	992.0	994.5
127.5°	1039.0	1048.9	1055.1	1058.8	1056.4
130°	1098.4	1108.3	1113.3	1118.2	1115.7
132.5°	1155.3	1165.2	1168.9	1173.9	1170.2
135°	1213.4	1220.9	1225.8	1229.5	1225.8
137.5°	1262.9	1272.8	1275.3	1281.5	1279.0
140°	1312.4	1319.8	1323.5	1328.5	1326.0
142.5°	1358.2	1365.6	1369.3	1373.0	1369.3
145°	1400.2	1408.9	1411.4	1413.8	1413.8
147.5°	1441.0	1447.2	1449.7	1452.2	1446.0
150°	1478.1	1481.9	1484.3	1486.8	1483.1
152.5°	1511.5	1512.8	1514.0	1519.0	1512.8
155°	1542.5	1540.0	1541.2	1547.4	1540.0
157.5°	1567.2	1567.2	1566.0	1573.4	1563.5
160°	1589.5	1588.2	1587.0	1594.4	1585.8
162.5°	1610.5	1606.8	1605.6	1614.2	1606.8
165°	1626.6	1622.9	1621.6	1631.5	1622.9
167.5°	1640.2	1635.2	1635.2	1645.1	1635.2
170°	1651.3	1646.4	1646.4	1656.3	1646.4
172.5°	1658.7	1652.6	1653.8	1663.7	1652.6
175°	1664.9	1658.7	1660.0	1668.6	1658.7
177.5°	1667.4	1661.2	1662.5	1672.3	1660.0
180°	1664.9	1664.9	1664.9	1664.9	1664.9

(END OF REPORT)