

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: P1010785

Luminaire Tested: S123RDIP-B1000D1195UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010785
REPORT IS A COMBINATION OF REPORTS P992771 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D1195UB2750-4F0-XX-W2A-F_3000K
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

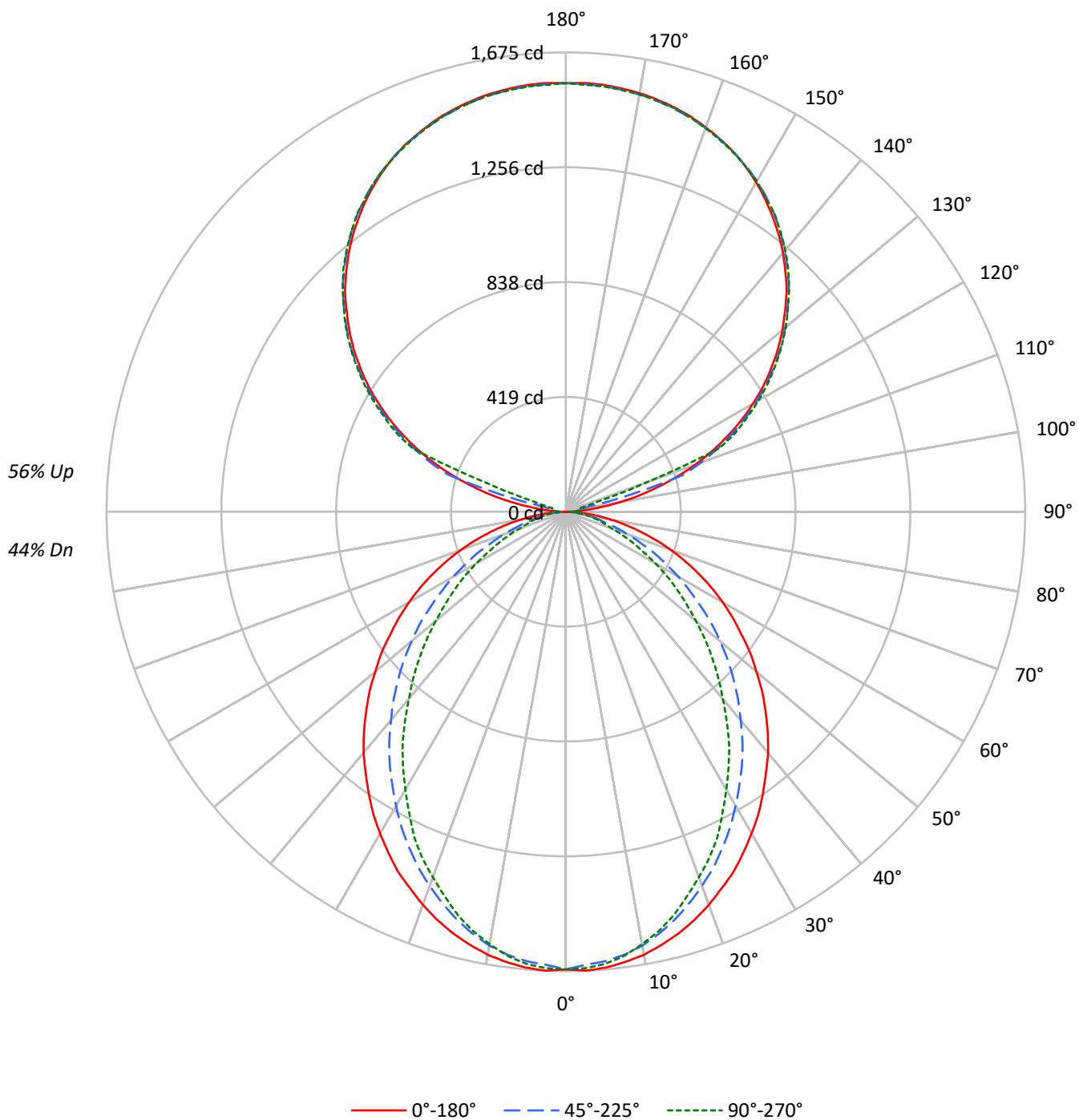
Lumens per Lamp: N/A
Luminaire Lumens: 8536.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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	80	80	80	65	65	65	51	51	51
1	97	93	89	85	88	85	82	79	71	68	66	57	56	55	45	44	43
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	27	33	28	24	27	23	21	22	19	17
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	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	1.8
10°-20°	436.3	5.1
20°-30°	628.2	7.4
30°-40°	707.4	8.3
40°-50°	676.7	7.9
50°-60°	553.9	6.5
60°-70°	373.5	4.4
70°-80°	187.3	2.2
80°-90°	52.1	0.6
90°-100°	55.1	0.6
100°-110°	266.4	3.1
110°-120°	652.9	7.6
120°-130°	828.8	9.7
130°-140°	885.4	10.4
140°-150°	827.9	9.7
150°-160°	667.8	7.8
160°-170°	431.0	5.0
170°-180°	148.5	1.7
0°-30°	1221.3	14.3
0°-40°	1928.7	22.6
0°-60°	3159.3	37.0
0°-90°	3772.1	44.2
90°-120°	974.4	11.4
90°-150°	3516.6	41.2
90°-180°	4764.0	55.8
0°-180°	8536.0	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	13	28	32	35	8
95°	71	23	36	44	44	85
105°	346	359	254	49	51	367
115°	649	656	666	678	683	641
125°	915	924	929	931	933	817
135°	1139	1146	1150	1154	1150	877
145°	1314	1322	1325	1327	1327	823
155°	1448	1445	1447	1452	1445	667
165°	1527	1523	1522	1531	1523	431
175°	1563	1557	1558	1566	1557	149
180°	1563	1563	1563	1563	1563	

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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°	1.2	12.8	27.9	32.5	34.8
92.5°	26.7	19.7	30.2	38.3	39.5
95°	70.8	23.2	36.0	44.1	44.1
97.5°	128.9	96.4	37.2	46.4	47.6
100°	196.2	219.4	38.3	47.6	48.8
102.5°	272.8	287.9	85.9	47.6	49.9
105°	346.0	358.7	254.3	48.8	51.1
107.5°	423.8	434.2	451.6	272.8	120.7
110°	501.5	510.8	523.6	485.3	319.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	575.8	584.0	596.7	607.2	604.9
115°	649.0	655.9	666.4	678.0	682.6
117.5°	721.0	729.1	734.9	744.2	745.3
120°	787.1	797.6	801.1	810.4	810.4
122.5°	854.5	862.6	867.2	873.0	874.2
125°	914.8	924.1	928.8	931.1	933.4
127.5°	975.2	984.5	990.3	993.8	991.5
130°	1030.9	1040.2	1044.9	1049.5	1047.2
132.5°	1084.3	1093.6	1097.1	1101.8	1098.3
135°	1138.9	1145.9	1150.5	1154.0	1150.5
137.5°	1185.3	1194.6	1197.0	1202.8	1200.4
140°	1231.8	1238.7	1242.2	1246.9	1244.5
142.5°	1274.7	1281.7	1285.2	1288.7	1285.2
145°	1314.2	1322.3	1324.7	1327.0	1327.0
147.5°	1352.5	1358.3	1360.6	1363.0	1357.2
150°	1387.3	1390.8	1393.2	1395.5	1392.0
152.5°	1418.7	1419.9	1421.0	1425.7	1419.9
155°	1447.7	1445.4	1446.6	1452.4	1445.4
157.5°	1470.9	1470.9	1469.8	1476.7	1467.5
160°	1491.8	1490.7	1489.5	1496.5	1488.4
162.5°	1511.6	1508.1	1506.9	1515.1	1508.1
165°	1526.7	1523.2	1522.0	1531.3	1523.2
167.5°	1539.4	1534.8	1534.8	1544.1	1534.8
170°	1549.9	1545.2	1545.2	1554.5	1545.2
172.5°	1556.8	1551.0	1552.2	1561.5	1551.0
175°	1562.7	1556.8	1558.0	1566.1	1556.8
177.5°	1565.0	1559.2	1560.3	1569.6	1558.0
180°	1562.7	1562.7	1562.7	1562.7	1562.7

(END OF REPORT)