

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: P1010838

Luminaire Tested: S123RDIP-B1165D1195UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010838
REPORT IS A COMBINATION OF REPORTS P992974 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D1195UB2750-4F0-XX-W2A-F_5000K
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

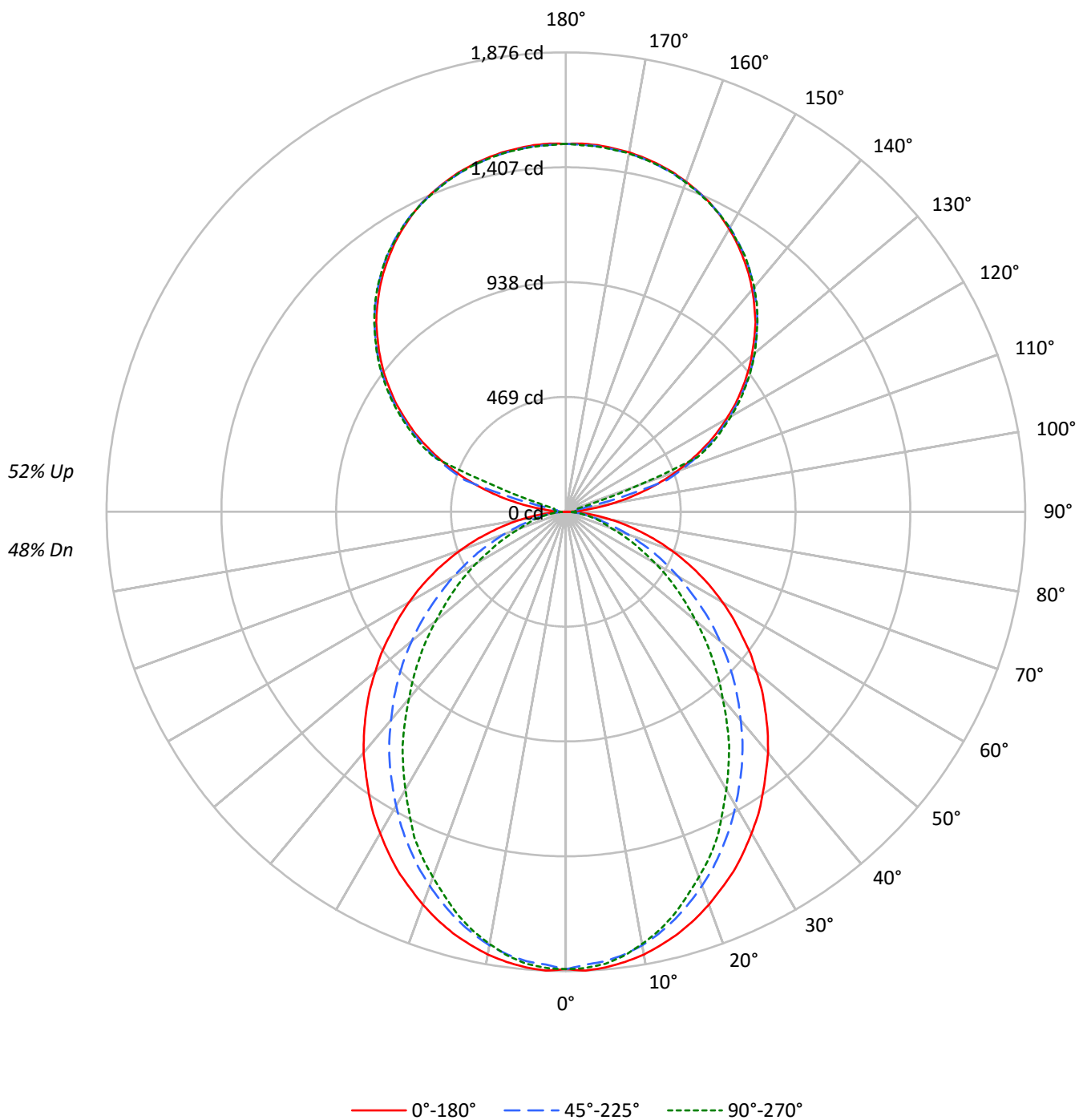
Lumens per Lamp: N/A
Luminaire Lumens: 8804.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82		68	68	68		54
1	98	93	90	86	90	86	83	80	73	70	68		60	58	57		48
2	89	82	76	71	82	76	71	66	64	60	57		53	50	48		43
3	82	72	65	59	75	67	61	56	57	52	48		47	44	41		38
4	75	64	56	51	69	59	53	47	50	45	41		42	38	35		34
5	69	57	49	43	63	53	46	41	45	40	36		38	34	31		31
6	63	51	44	38	58	48	41	36	41	35	31		34	30	27		28
7	59	47	39	33	54	43	36	31	37	32	28		31	27	24		26
8	54	42	35	29	50	39	33	28	34	29	25		29	25	22		24
9	51	39	31	26	47	36	29	25	31	26	22		26	22	19		22
10	47	35	28	24	44	33	27	22	29	24	20		25	20	18		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20106	20106	20106
5°	20139	19395	19343
10°	19980	18665	18298
15°	19721	17764	17154
20°	19381	16784	15875
25°	19030	15765	14664
30°	18581	14682	13231
35°	18116	13618	11928
40°	17681	12462	10487
45°	17122	11332	9191
50°	16505	10124	7851
55°	15865	8832	6623
60°	15255	7507	5376
65°	14465	6147	4195
70°	13473	4649	2999
75°	12043	3148	2376
80°	10282	2187	1667
85°	7713	1181	873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	2.0
10°-20°	488.5	5.5
20°-30°	703.3	8.0
30°-40°	792.1	9.0
40°-50°	757.6	8.6
50°-60°	620.2	7.0
60°-70°	418.1	4.7
70°-80°	209.7	2.4
80°-90°	57.9	0.7
90°-100°	53.0	0.6
100°-110°	256.2	2.9
110°-120°	627.8	7.1
120°-130°	797.0	9.1
130°-140°	851.4	9.7
140°-150°	796.2	9.0
150°-160°	642.2	7.3
160°-170°	414.4	4.7
170°-180°	142.8	1.6
0°-30°	1367.4	15.5
0°-40°	2159.5	24.5
0°-60°	3537.3	40.2
0°-90°	4223.0	48.0
90°-120°	937.0	10.6
90°-150°	3381.6	38.4
90°-180°	4581.0	52.0
0°-180°	8804.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1868	1868	1868	1868	1868	
5°	1868	1860	1842	1856	1853	177
15°	1782	1765	1722	1715	1704	502
25°	1621	1583	1513	1482	1465	746
35°	1403	1348	1254	1189	1162	878
45°	1153	1085	968	882	845	890
55°	876	801	673	585	554	785
65°	598	515	397	323	306	592
75°	317	244	161	145	142	337
85°	80	47	42	39	39	88
90°	1	12	27	31	34	9
95°	68	22	35	42	42	81
105°	333	345	244	47	49	353
115°	624	631	641	652	656	616
125°	880	889	893	895	898	786
135°	1095	1102	1106	1110	1106	843
145°	1264	1272	1274	1276	1276	791
155°	1392	1390	1391	1397	1390	641
165°	1468	1465	1464	1472	1465	415
175°	1503	1497	1498	1506	1497	143
180°	1503	1503	1503	1503	1503	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1867.9	1867.9	1867.9	1867.9	1867.9
2.5°	1875.5	1869.5	1851.3	1867.9	1864.9
5°	1867.9	1860.4	1842.2	1855.8	1852.8
7.5°	1854.3	1846.7	1824.0	1833.1	1828.5
10°	1836.1	1825.5	1798.2	1799.8	1792.2
12.5°	1810.4	1798.2	1763.4	1761.9	1752.8
15°	1781.6	1764.9	1722.5	1714.9	1704.3
17.5°	1746.7	1728.6	1675.5	1660.4	1645.2
20°	1707.4	1683.1	1625.5	1605.8	1587.7
22.5°	1663.4	1634.6	1572.5	1546.8	1530.1
25°	1621.0	1583.1	1513.4	1481.6	1465.0
27.5°	1569.5	1528.6	1452.8	1410.4	1384.7
30°	1516.5	1471.0	1386.2	1334.7	1310.4
32.5°	1463.4	1410.4	1319.5	1262.0	1236.2
35°	1402.8	1348.3	1254.4	1189.2	1162.0
37.5°	1342.2	1283.2	1184.7	1112.0	1078.6
40°	1284.7	1218.0	1110.5	1031.7	996.8
42.5°	1219.5	1152.9	1040.8	952.9	922.6
45°	1152.9	1084.7	968.1	881.7	845.3
47.5°	1087.7	1012.0	896.9	802.9	771.1
50°	1015.0	943.8	821.1	727.2	692.3
52.5°	949.9	871.1	749.9	651.4	621.1
55°	875.6	801.4	672.6	584.8	554.5
57.5°	809.0	728.7	598.4	515.1	489.3
60°	739.3	656.0	530.2	448.4	422.7
62.5°	669.6	586.3	460.5	384.8	357.5
65°	598.4	515.1	396.9	322.7	306.0
67.5°	527.2	442.4	327.2	271.2	253.0
70°	457.5	375.7	269.7	216.6	200.0
72.5°	387.8	307.5	213.6	172.7	168.2
75°	316.6	243.9	160.6	145.4	142.4
77.5°	251.5	184.8	125.7	116.7	113.6
80°	189.4	127.3	95.4	90.9	87.9
82.5°	130.3	78.8	68.2	63.6	63.6
85°	80.3	47.0	42.4	39.4	39.4
87.5°	36.4	19.7	19.7	18.2	16.7
90°	1.1	12.3	26.8	31.3	33.5
92.5°	25.7	19.0	29.0	36.8	38.0
95°	68.1	22.3	34.6	42.4	42.4
97.5°	123.9	92.7	35.7	44.7	45.8
100°	188.7	211.0	36.8	45.8	46.9
102.5°	262.4	276.9	82.6	45.8	48.0
105°	332.7	345.0	244.5	46.9	49.1
107.5°	407.5	417.5	434.3	262.4	116.1
110°	482.3	491.2	503.5	466.7	307.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	553.7	561.5	573.8	583.9	581.6
115°	624.1	630.8	640.8	652.0	656.4
117.5°	693.3	701.1	706.7	715.6	716.7
120°	756.9	767.0	770.3	779.2	779.2
122.5°	821.7	829.5	833.9	839.5	840.6
125°	879.7	888.6	893.1	895.3	897.6
127.5°	937.8	946.7	952.3	955.6	953.4
130°	991.4	1000.3	1004.8	1009.2	1007.0
132.5°	1042.7	1051.6	1055.0	1059.5	1056.1
135°	1095.2	1101.9	1106.3	1109.7	1106.3
137.5°	1139.8	1148.8	1151.0	1156.6	1154.3
140°	1184.5	1191.2	1194.5	1199.0	1196.8
142.5°	1225.8	1232.5	1235.8	1239.2	1235.8
145°	1263.8	1271.6	1273.8	1276.0	1276.0
147.5°	1300.6	1306.2	1308.4	1310.6	1305.1
150°	1334.1	1337.4	1339.7	1341.9	1338.6
152.5°	1364.2	1365.3	1366.5	1370.9	1365.3
155°	1392.1	1389.9	1391.0	1396.6	1389.9
157.5°	1414.5	1414.5	1413.4	1420.1	1411.1
160°	1434.6	1433.4	1432.3	1439.0	1431.2
162.5°	1453.5	1450.2	1449.1	1456.9	1450.2
165°	1468.1	1464.7	1463.6	1472.5	1464.7
167.5°	1480.3	1475.9	1475.9	1484.8	1475.9
170°	1490.4	1485.9	1485.9	1494.8	1485.9
172.5°	1497.1	1491.5	1492.6	1501.5	1491.5
175°	1502.7	1497.1	1498.2	1506.0	1497.1
177.5°	1504.9	1499.3	1500.4	1509.4	1498.2
180°	1502.7	1502.7	1502.7	1502.7	1502.7

(END OF REPORT)