

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: P1010836

Luminaire Tested: S123RDIP-B1165D1195UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010836
REPORT IS A COMBINATION OF REPORTS P992972 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_3500K
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

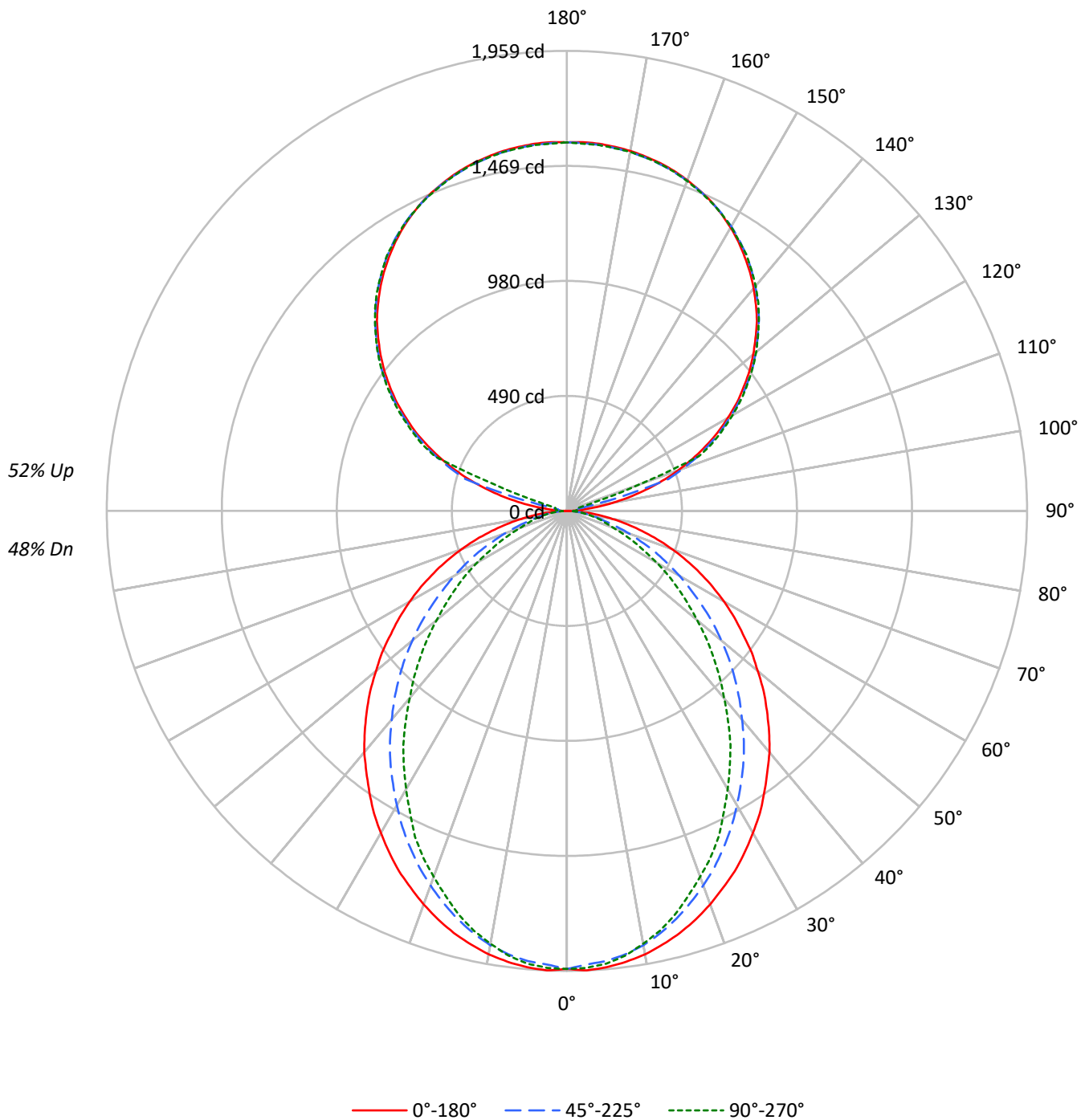
Lumens per Lamp: N/A
Luminaire Lumens: 9195.0 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	30	10
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54
1	98	93	90	86	90	86	83	80	73	70	68	60	58	57	48	47	46
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	43	41	40
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	38	36	34
4	75	64	56	51	69	59	53	47	50	45	41	42	38	35	34	32	30
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26
6	63	51	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23
7	59	47	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	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	24	20	25	20	18	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20997	20997	20997
5°	21031	20254	20200
10°	20866	19492	19109
15°	20595	18551	17913
20°	20240	17528	16578
25°	19873	16464	15314
30°	19404	15332	13818
35°	18919	14221	12457
40°	18464	13014	10952
45°	17881	11834	9599
50°	17237	10573	8199
55°	16568	9223	6915
60°	15932	7839	5613
65°	15106	6420	4382
70°	14071	4854	3131
75°	12580	3287	2481
80°	10738	2285	1741
85°	8059	1234	911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17881 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	2.0
10°-20°	510.1	5.5
20°-30°	734.5	8.0
30°-40°	827.2	9.0
40°-50°	791.2	8.6
50°-60°	647.7	7.0
60°-70°	436.7	4.7
70°-80°	219.0	2.4
80°-90°	60.4	0.7
90°-100°	55.3	0.6
100°-110°	267.6	2.9
110°-120°	655.8	7.1
120°-130°	832.5	9.1
130°-140°	889.3	9.7
140°-150°	831.6	9.0
150°-160°	670.8	7.3
160°-170°	432.9	4.7
170°-180°	149.2	1.6
0°-30°	1428.0	15.5
0°-40°	2255.2	24.5
0°-60°	3694.0	40.2
0°-90°	4410.1	48.0
90°-120°	978.7	10.6
90°-150°	3532.1	38.4
90°-180°	4785.0	52.0
0°-180°	9195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1951	1943	1924	1938	1935	185
15°	1860	1843	1799	1791	1780	524
25°	1693	1653	1580	1547	1530	779
35°	1465	1408	1310	1242	1214	917
45°	1204	1133	1011	921	883	929
55°	914	837	702	611	579	820
65°	625	538	414	337	320	618
75°	331	255	168	152	149	352
85°	84	49	44	41	41	92
90°	1	13	28	33	35	9
95°	71	23	36	44	44	85
105°	348	360	255	49	51	368
115°	652	659	669	681	686	644
125°	919	928	933	935	938	821
135°	1144	1151	1156	1159	1156	881
145°	1320	1328	1330	1333	1333	826
155°	1454	1452	1453	1459	1452	670
165°	1533	1530	1529	1538	1530	433
175°	1570	1564	1565	1573	1564	149
180°	1570	1570	1570	1570	1570	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.7	1950.7	1950.7	1950.7	1950.7
2.5°	1958.6	1952.3	1933.3	1950.7	1947.5
5°	1950.7	1942.8	1923.8	1938.1	1934.9
7.5°	1936.5	1928.6	1904.8	1914.3	1909.6
10°	1917.5	1906.4	1877.9	1879.5	1871.6
12.5°	1890.6	1877.9	1841.5	1840.0	1830.5
15°	1860.5	1843.1	1798.8	1790.9	1779.8
17.5°	1824.1	1805.2	1749.8	1734.0	1718.1
20°	1783.0	1757.7	1697.6	1677.0	1658.0
22.5°	1737.1	1707.1	1642.2	1615.3	1597.9
25°	1692.8	1653.3	1580.5	1547.3	1529.9
27.5°	1639.0	1596.3	1517.2	1472.9	1446.0
30°	1583.7	1536.2	1447.6	1393.8	1368.5
32.5°	1528.3	1472.9	1378.0	1317.9	1291.0
35°	1465.0	1408.1	1310.0	1241.9	1213.5
37.5°	1401.7	1340.0	1237.2	1161.2	1126.4
40°	1341.6	1272.0	1159.7	1077.4	1041.0
42.5°	1273.6	1204.0	1086.9	995.1	963.5
45°	1204.0	1132.8	1011.0	920.8	882.8
47.5°	1135.9	1056.8	936.6	838.5	805.3
50°	1060.0	985.6	857.5	759.4	723.0
52.5°	992.0	909.7	783.1	680.3	648.7
55°	914.4	836.9	702.4	610.7	579.0
57.5°	844.8	761.0	624.9	537.9	511.0
60°	772.1	685.0	553.7	468.3	441.4
62.5°	699.3	612.3	481.0	401.8	373.4
65°	624.9	537.9	414.5	337.0	319.6
67.5°	550.6	462.0	341.7	283.2	264.2
70°	477.8	392.4	281.6	226.2	208.8
72.5°	405.0	321.2	223.1	180.4	175.6
75°	330.7	254.7	167.7	151.9	148.7
77.5°	262.6	193.0	131.3	121.8	118.7
80°	197.8	132.9	99.7	94.9	91.8
82.5°	136.1	82.3	71.2	66.4	66.4
85°	83.9	49.0	44.3	41.1	41.1
87.5°	38.0	20.6	20.6	19.0	17.4
90°	1.2	12.8	28.0	32.7	35.0
92.5°	26.8	19.8	30.3	38.5	39.6
95°	71.1	23.3	36.1	44.3	44.3
97.5°	129.4	96.8	37.3	46.6	47.8
100°	197.1	220.4	38.5	47.8	49.0
102.5°	274.0	289.2	86.3	47.8	50.1
105°	347.5	360.3	255.4	49.0	51.3
107.5°	425.6	436.1	453.6	274.0	121.3
110°	503.7	513.1	525.9	487.4	320.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	578.4	586.5	599.4	609.9	607.5
115°	651.8	658.8	669.3	681.0	685.7
117.5°	724.1	732.3	738.1	747.5	748.6
120°	790.6	801.1	804.6	813.9	813.9
122.5°	858.2	866.4	871.1	876.9	878.1
125°	918.9	928.2	932.9	935.2	937.5
127.5°	979.5	988.8	994.7	998.2	995.8
130°	1035.5	1044.8	1049.5	1054.1	1051.8
132.5°	1089.1	1098.4	1101.9	1106.6	1103.1
135°	1143.9	1150.9	1155.6	1159.1	1155.6
137.5°	1190.6	1199.9	1202.2	1208.1	1205.7
140°	1237.2	1244.2	1247.7	1252.4	1250.0
142.5°	1280.4	1287.3	1290.8	1294.3	1290.8
145°	1320.0	1328.2	1330.5	1332.8	1332.8
147.5°	1358.5	1364.3	1366.6	1369.0	1363.1
150°	1393.5	1397.0	1399.3	1401.6	1398.1
152.5°	1424.9	1426.1	1427.3	1431.9	1426.1
155°	1454.1	1451.8	1452.9	1458.8	1451.8
157.5°	1477.4	1477.4	1476.3	1483.2	1473.9
160°	1498.4	1497.2	1496.1	1503.1	1494.9
162.5°	1518.2	1514.7	1513.6	1521.7	1514.7
165°	1533.4	1529.9	1528.7	1538.1	1529.9
167.5°	1546.2	1541.6	1541.6	1550.9	1541.6
170°	1556.7	1552.0	1552.0	1561.4	1552.0
172.5°	1563.7	1557.9	1559.0	1568.4	1557.9
175°	1569.5	1563.7	1564.9	1573.0	1563.7
177.5°	1571.9	1566.0	1567.2	1576.5	1564.9
180°	1569.5	1569.5	1569.5	1569.5	1569.5

(END OF REPORT)