

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: P1012172

Luminaire Tested: S123RDIP-B1000D1195UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012172
REPORT IS A COMBINATION OF REPORTS P992797 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D1195UB50-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

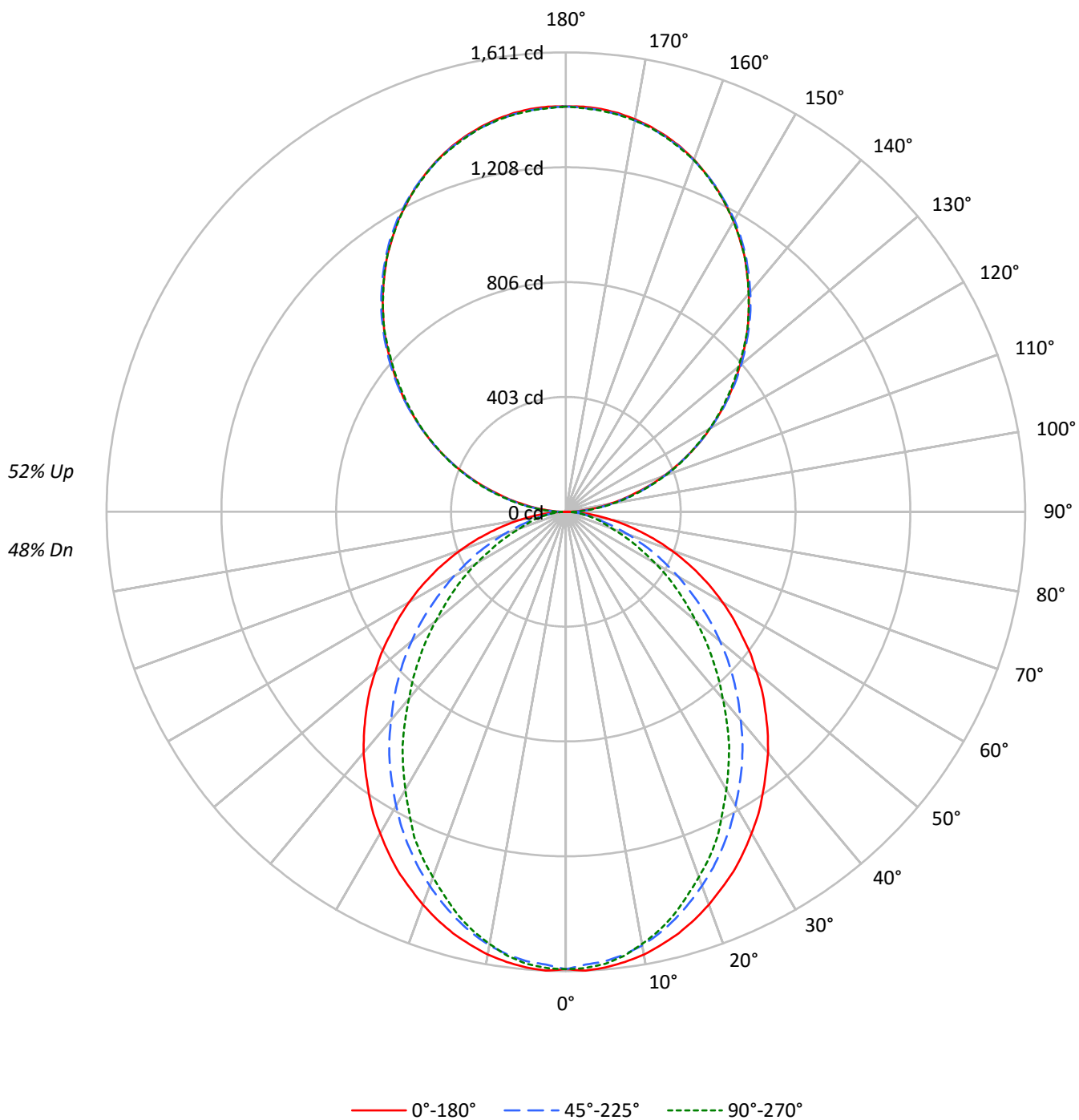
Lumens per Lamp: N/A
Luminaire Lumens: 7565.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	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	24	20	18	21	17	15

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	2.0
10°-20°	419.5	5.5
20°-30°	604.0	8.0
30°-40°	680.2	9.0
40°-50°	650.6	8.6
50°-60°	532.6	7.0
60°-70°	359.1	4.7
70°-80°	180.1	2.4
80°-90°	50.1	0.7
90°-100°	91.5	1.2
100°-110°	276.9	3.7
110°-120°	471.4	6.2
120°-130°	620.2	8.2
130°-140°	697.1	9.2
140°-150°	685.3	9.1
150°-160°	577.0	7.6
160°-170°	384.1	5.1
170°-180°	134.5	1.8
0°-30°	1174.3	15.5
0°-40°	1854.5	24.5
0°-60°	3037.7	40.2
0°-90°	3627.0	47.9
90°-120°	839.8	11.1
90°-150°	2842.4	37.6
90°-180°	3938.0	52.1
0°-180°	7565.0	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	12	27	31	34	9
95°	66	74	83	87	87	73
105°	251	253	264	264	266	269
115°	474	478	476	477	476	470
125°	694	698	696	691	687	619
135°	901	908	907	902	900	694
145°	1093	1095	1099	1098	1093	683
155°	1252	1252	1253	1257	1249	576
165°	1363	1360	1360	1366	1359	384
175°	1418	1413	1413	1420	1412	135
180°	1421	1421	1421	1421	1421	



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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°	1.1	12.3	26.8	31.3	33.5
92.5°	33.5	40.2	46.9	50.2	48.0
95°	65.9	73.7	82.6	87.1	87.1
97.5°	108.3	113.9	120.6	126.2	125.0
100°	151.8	158.5	164.1	167.5	169.7
102.5°	202.1	205.4	213.2	216.6	215.5
105°	251.2	253.4	263.5	263.5	265.7
107.5°	309.3	310.4	314.8	318.2	317.1
110°	362.8	365.1	367.3	371.8	369.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.7	419.8	419.8	425.4	425.4
115°	474.5	477.8	475.6	476.7	475.6
117.5°	531.4	532.5	530.3	530.3	527.0
120°	583.9	590.6	585.0	583.9	581.7
122.5°	638.6	643.1	640.8	637.5	634.1
125°	694.4	697.8	695.5	691.1	686.6
127.5°	745.8	752.5	750.3	743.6	739.1
130°	797.1	806.1	802.7	798.3	790.4
132.5°	848.5	857.4	855.2	849.6	844.0
135°	901.0	907.7	906.6	902.1	899.9
137.5°	949.0	954.6	957.9	952.3	949.0
140°	999.2	1004.8	1005.9	1004.8	997.0
142.5°	1045.0	1050.6	1052.8	1051.7	1046.1
145°	1093.0	1095.2	1098.6	1097.5	1093.0
147.5°	1134.3	1138.8	1142.1	1142.1	1135.4
150°	1177.9	1180.1	1182.3	1182.3	1175.6
152.5°	1213.6	1216.9	1218.0	1220.3	1214.7
155°	1251.5	1251.5	1252.7	1257.1	1249.3
157.5°	1283.9	1282.8	1283.9	1288.4	1281.7
160°	1314.1	1311.8	1311.8	1317.4	1312.9
162.5°	1340.9	1337.5	1338.6	1344.2	1336.4
165°	1363.2	1359.8	1359.8	1366.5	1358.7
167.5°	1382.2	1377.7	1378.8	1385.5	1378.8
170°	1397.8	1393.3	1393.3	1401.1	1393.3
172.5°	1410.1	1405.6	1405.6	1412.3	1404.5
175°	1417.9	1413.4	1413.4	1420.1	1412.3
177.5°	1422.4	1417.9	1417.9	1424.6	1416.8
180°	1421.2	1421.2	1421.2	1421.2	1421.2

(END OF REPORT)