

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: P1012451

Luminaire Tested: S123RDIP-B340D1195UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012451
REPORT IS A COMBINATION OF REPORTS P993184 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D1195UB35-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

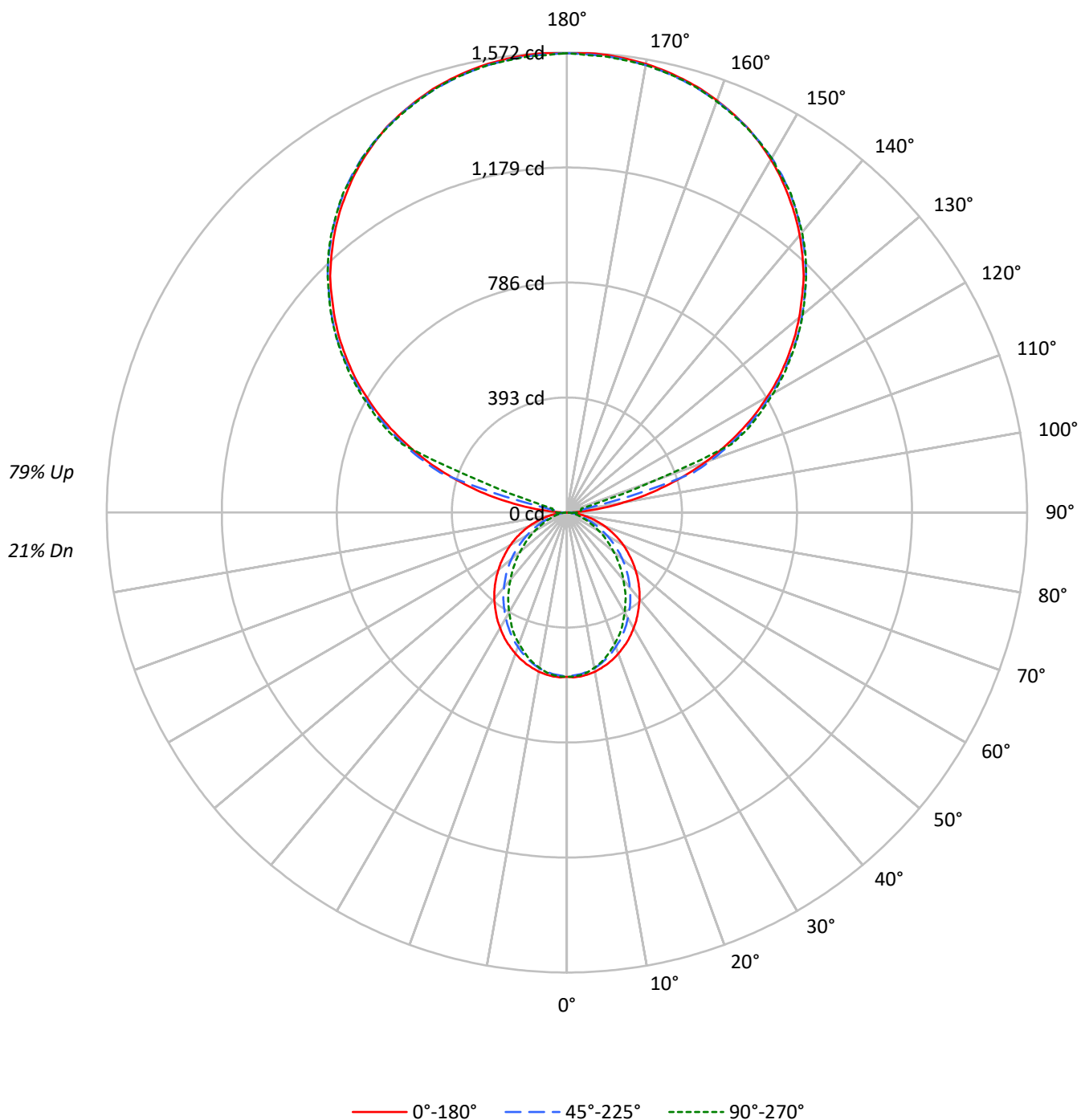
Lumens per Lamp: N/A
Luminaire Lumens: 6057.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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

TEST NUMBER: P1012451

CATALOG NUMBER: S123RDIP-B340D1195UB35-4F0-XX-W2A-F

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	100	100	100	100	89	89	89	89	67	67	67	48	48	48	29	29	29
1	91	87	84	80	81	77	74	72	59	57	55	42	41	40	26	26	25
2	83	76	71	66	74	68	63	59	52	49	46	37	35	33	23	22	21
3	76	67	60	55	67	60	54	49	46	42	39	33	30	28	21	19	18
4	69	59	52	46	61	53	47	42	41	36	33	29	26	24	19	17	16
5	64	53	45	39	56	47	41	36	36	32	28	26	23	21	17	15	14
6	59	47	40	34	52	42	36	31	32	28	24	24	21	18	15	13	12
7	54	42	35	30	48	38	31	27	29	25	21	21	18	16	14	12	11
8	50	38	31	26	44	34	28	24	27	22	19	19	16	14	13	11	10
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9
10	43	32	25	20	38	29	23	19	22	18	15	16	13	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6046	6046	6046
5°	6056	5833	5817
10°	6008	5613	5502
15°	5930	5342	5158
20°	5828	5047	4774
25°	5723	4741	4409
30°	5587	4415	3979
35°	5449	4095	3587
40°	5316	3747	3154
45°	5149	3407	2764
50°	4963	3044	2361
55°	4771	2656	1991
60°	4587	2257	1616
65°	4349	1849	1261
70°	4052	1398	901
75°	3621	947	714
80°	3089	658	501
85°	2315	356	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5149 cd/sqm

TEST NUMBER: P1012451

CATALOG NUMBER: S123RDIP-B340D1195UB35-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	0.9
10°-20°	146.9	2.4
20°-30°	211.5	3.5
30°-40°	238.2	3.9
40°-50°	227.8	3.8
50°-60°	186.5	3.1
60°-70°	125.7	2.1
70°-80°	63.1	1.0
80°-90°	19.6	0.3
90°-100°	55.3	0.9
100°-110°	267.6	4.4
110°-120°	655.8	10.8
120°-130°	832.5	13.7
130°-140°	889.3	14.7
140°-150°	831.6	13.7
150°-160°	670.8	11.1
160°-170°	432.9	7.1
170°-180°	149.2	2.5
0°-30°	411.2	6.8
0°-40°	649.4	10.7
0°-60°	1063.7	17.6
0°-90°	1272.1	21.0
90°-120°	978.7	16.2
90°-150°	3532.1	58.3
90°-180°	4785.0	79.0
0°-180°	6057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	562	562	562	562	562	
5°	562	559	554	558	557	53
15°	536	531	518	516	512	151
25°	488	476	455	446	440	224
35°	422	406	377	358	349	264
45°	347	326	291	265	254	268
55°	263	241	202	176	167	236
65°	180	155	119	97	92	178
75°	95	73	48	44	43	101
85°	24	14	13	12	12	26
90°	1	13	28	33	35	5
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	

TEST NUMBER: P1012451

CATALOG NUMBER: S123RDIP-B340D1195UB35-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	561.7	561.7	561.7	561.7	561.7
2.5°	564.0	562.2	556.7	561.7	560.8
5°	561.7	559.4	554.0	558.1	557.2
7.5°	557.6	555.3	548.5	551.2	549.9
10°	552.1	549.0	540.8	541.2	538.9
12.5°	544.4	540.8	530.3	529.8	527.1
15°	535.7	530.7	518.0	515.7	512.5
17.5°	525.3	519.8	503.9	499.3	494.7
20°	513.4	506.1	488.8	482.9	477.4
22.5°	500.2	491.6	472.9	465.1	460.1
25°	487.5	476.1	455.1	445.5	440.5
27.5°	472.0	459.7	436.9	424.1	416.4
30°	456.0	442.4	416.8	401.4	394.1
32.5°	440.1	424.1	396.8	379.5	371.7
35°	421.9	405.5	377.2	357.6	349.4
37.5°	403.6	385.9	356.3	334.4	324.4
40°	386.3	366.3	333.9	310.2	299.8
42.5°	366.7	346.7	313.0	286.5	277.4
45°	346.7	326.2	291.1	265.1	254.2
47.5°	327.1	304.3	269.7	241.4	231.9
50°	305.2	283.8	246.9	218.7	208.2
52.5°	285.6	261.9	225.5	195.9	186.8
55°	263.3	241.0	202.3	175.8	166.7
57.5°	243.3	219.1	179.9	154.9	147.1
60°	222.3	197.3	159.4	134.8	127.1
62.5°	201.4	176.3	138.5	115.7	107.5
65°	179.9	154.9	119.4	97.0	92.0
67.5°	158.5	133.0	98.4	81.5	76.1
70°	137.6	113.0	81.1	65.1	60.1
72.5°	116.6	92.5	64.2	51.9	50.6
75°	95.2	73.3	48.3	43.7	42.8
77.5°	75.6	55.6	37.8	35.1	34.2
80°	56.9	38.3	28.7	27.3	26.4
82.5°	39.2	23.7	20.5	19.1	19.1
85°	24.1	14.1	12.8	11.8	11.8
87.5°	10.9	5.9	5.9	5.5	5.0
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

TEST NUMBER: P1012451

CATALOG NUMBER: S123RDIP-B340D1195UB35-4F0-XX-W2A-F

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)