

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: P1012148

Luminaire Tested: S123RDIP-B1000D1195UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012148
REPORT IS A COMBINATION OF REPORTS P992763 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D1195UB27-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

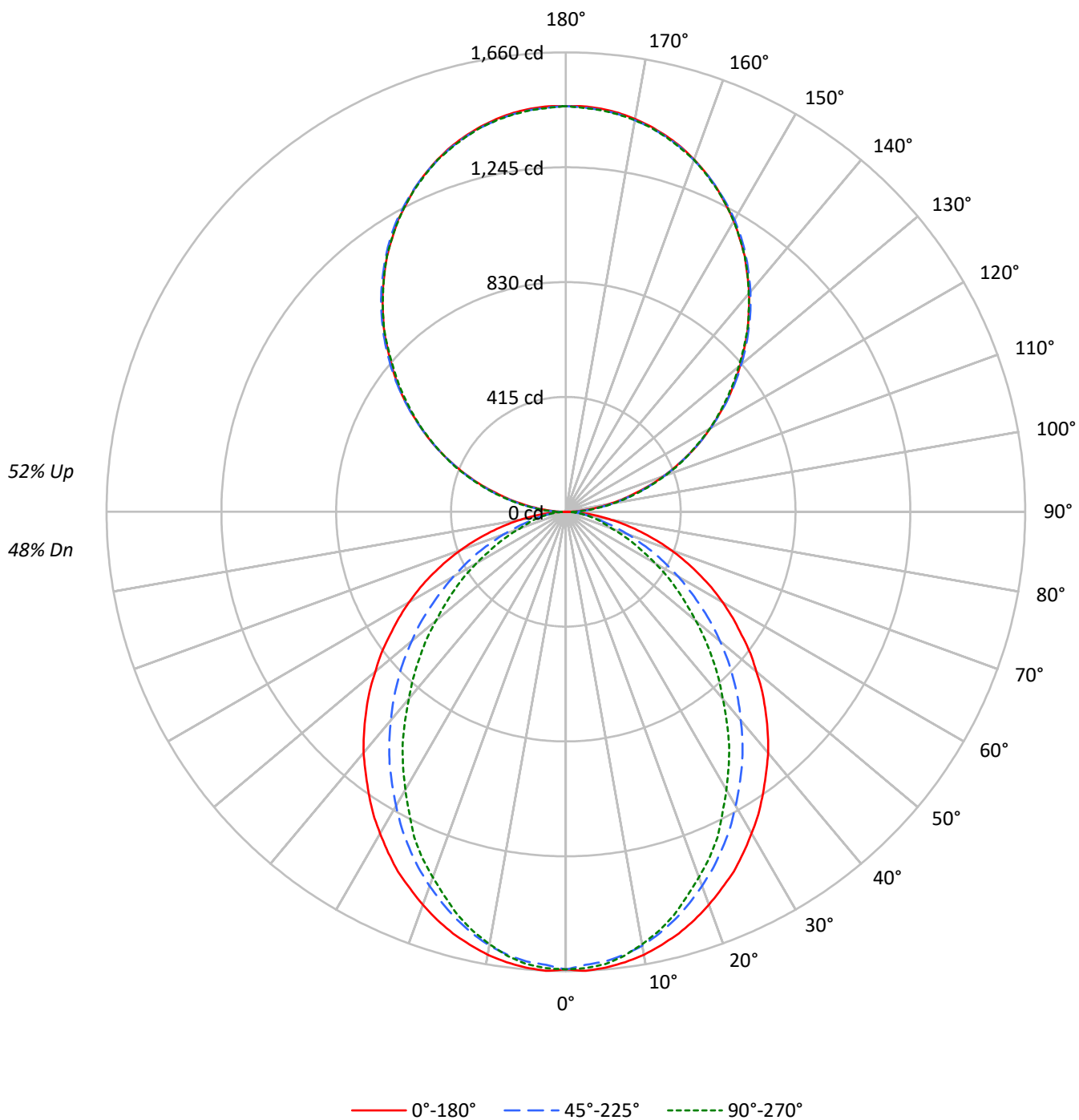
Lumens per Lamp: N/A
Luminaire Lumens: 7800.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1012148

CATALOG NUMBER: S123RDIP-B1000D1195UB27-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1012148

CATALOG NUMBER: S123RDIP-B1000D1195UB27-4F0-XX-W2A-F1

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°	17800	17800	17800
5°	17829	17170	17124
10°	17689	16525	16199
15°	17460	15727	15186
20°	17158	14859	14055
25°	16848	13958	12981
30°	16449	12998	11714
35°	16039	12056	10560
40°	15652	11032	9284
45°	15159	10031	8138
50°	14612	8963	6950
55°	14046	7819	5863
60°	13505	6646	4759
65°	12807	5442	3714
70°	11927	4115	2654
75°	10662	2788	2104
80°	9099	1937	1475
85°	6829	1047	774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15159 cd/sqm

TEST NUMBER: P1012148

CATALOG NUMBER: S123RDIP-B1000D1195UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	2.0
10°-20°	432.5	5.5
20°-30°	622.7	8.0
30°-40°	701.2	9.0
40°-50°	670.7	8.6
50°-60°	549.1	7.0
60°-70°	370.2	4.7
70°-80°	185.7	2.4
80°-90°	51.6	0.7
90°-100°	94.3	1.2
100°-110°	285.6	3.7
110°-120°	486.1	6.2
120°-130°	639.5	8.2
130°-140°	718.9	9.2
140°-150°	706.7	9.1
150°-160°	595.0	7.6
160°-170°	396.1	5.1
170°-180°	138.7	1.8
0°-30°	1210.6	15.5
0°-40°	1911.8	24.5
0°-60°	3131.6	40.1
0°-90°	3739.1	47.9
90°-120°	866.0	11.1
90°-150°	2931.1	37.6
90°-180°	4061.0	52.1
0°-180°	7800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1654	1647	1631	1643	1640	157
15°	1577	1562	1525	1518	1509	444
25°	1435	1402	1340	1312	1297	660
35°	1242	1194	1110	1053	1029	777
45°	1021	960	857	781	748	788
55°	775	710	596	518	491	695
65°	530	456	351	286	271	524
75°	280	216	142	129	126	299
85°	71	42	38	35	35	78
90°	1	13	28	32	34	9
95°	68	76	85	90	90	75
105°	259	261	272	272	274	277
115°	489	493	490	492	490	484
125°	716	720	717	713	708	639
135°	929	936	935	930	928	716
145°	1127	1129	1133	1132	1127	704
155°	1291	1291	1292	1296	1288	594
165°	1406	1402	1402	1409	1401	396
175°	1462	1458	1458	1464	1456	139
180°	1466	1466	1466	1466	1466	

TEST NUMBER: P1012148

CATALOG NUMBER: S123RDIP-B1000D1195UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.7	1653.7	1653.7	1653.7	1653.7
2.5°	1660.4	1655.0	1638.9	1653.7	1651.0
5°	1653.7	1647.0	1630.9	1643.0	1640.3
7.5°	1641.6	1634.9	1614.8	1622.9	1618.8
10°	1625.5	1616.1	1592.0	1593.3	1586.6
12.5°	1602.7	1592.0	1561.2	1559.8	1551.8
15°	1577.3	1562.5	1524.9	1518.2	1508.8
17.5°	1546.4	1530.3	1483.4	1470.0	1456.5
20°	1511.5	1490.1	1439.1	1421.7	1405.6
22.5°	1472.6	1447.2	1392.2	1369.4	1354.6
25°	1435.1	1401.6	1339.9	1311.7	1296.9
27.5°	1389.5	1353.3	1286.2	1248.7	1225.9
30°	1342.5	1302.3	1227.2	1181.6	1160.1
32.5°	1295.6	1248.7	1168.2	1117.2	1094.4
35°	1242.0	1193.7	1110.5	1052.8	1028.7
37.5°	1188.3	1136.0	1048.8	984.4	954.9
40°	1137.3	1078.3	983.1	913.4	882.5
42.5°	1079.7	1020.7	921.4	843.6	816.8
45°	1020.7	960.3	857.0	780.6	748.4
47.5°	963.0	895.9	794.0	710.8	682.7
50°	898.6	835.6	726.9	643.8	612.9
52.5°	840.9	771.2	663.9	576.7	549.9
55°	775.2	709.5	595.5	517.7	490.9
57.5°	716.2	645.1	529.8	456.0	433.2
60°	654.5	580.7	469.4	397.0	374.2
62.5°	592.8	519.0	407.7	340.7	316.5
65°	529.8	456.0	351.4	285.7	270.9
67.5°	466.7	391.6	289.7	240.1	224.0
70°	405.0	332.6	238.7	191.8	177.0
72.5°	343.3	272.3	189.1	152.9	148.9
75°	280.3	215.9	142.2	128.8	126.1
77.5°	222.6	163.6	111.3	103.3	100.6
80°	167.6	112.7	84.5	80.5	77.8
82.5°	115.3	69.7	60.4	56.3	56.3
85°	71.1	41.6	37.6	34.9	34.9
87.5°	32.2	17.4	17.4	16.1	14.8
90°	1.2	12.7	27.6	32.2	34.5
92.5°	34.5	41.4	48.4	51.8	49.5
95°	67.9	76.0	85.2	89.8	89.8
97.5°	111.7	117.4	124.3	130.1	128.9
100°	156.6	163.5	169.2	172.7	175.0
102.5°	208.4	211.8	219.9	223.4	222.2
105°	259.0	261.3	271.7	271.7	274.0
107.5°	318.9	320.1	324.7	328.1	327.0
110°	374.2	376.5	378.8	383.4	381.1

TEST NUMBER: P1012148

CATALOG NUMBER: S123RDIP-B1000D1195UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	431.7	432.9	432.9	438.6	438.6
115°	489.3	492.8	490.5	491.6	490.5
117.5°	548.0	549.2	546.9	546.9	543.4
120°	602.1	609.0	603.3	602.1	599.8
122.5°	658.5	663.1	660.8	657.4	653.9
125°	716.1	719.6	717.3	712.7	708.0
127.5°	769.1	776.0	773.7	766.8	762.2
130°	822.0	831.2	827.8	823.2	815.1
132.5°	875.0	884.2	881.9	876.1	870.4
135°	929.1	936.0	934.9	930.2	927.9
137.5°	978.6	984.4	987.8	982.1	978.6
140°	1030.4	1036.2	1037.3	1036.2	1028.1
142.5°	1077.6	1083.4	1085.7	1084.5	1078.8
145°	1127.1	1129.4	1132.9	1131.7	1127.1
147.5°	1169.7	1174.3	1177.8	1177.8	1170.9
150°	1214.6	1216.9	1219.2	1219.2	1212.3
152.5°	1251.5	1254.9	1256.1	1258.4	1252.6
155°	1290.6	1290.6	1291.8	1296.4	1288.3
157.5°	1324.0	1322.8	1324.0	1328.6	1321.7
160°	1355.1	1352.8	1352.8	1358.5	1353.9
162.5°	1382.7	1379.2	1380.4	1386.2	1378.1
165°	1405.7	1402.3	1402.3	1409.2	1401.1
167.5°	1425.3	1420.7	1421.8	1428.8	1421.8
170°	1441.4	1436.8	1436.8	1444.9	1436.8
172.5°	1454.1	1449.5	1449.5	1456.4	1448.3
175°	1462.1	1457.5	1457.5	1464.4	1456.4
177.5°	1466.7	1462.1	1462.1	1469.1	1461.0
180°	1465.6	1465.6	1465.6	1465.6	1465.6

(END OF REPORT)