

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: P1000902

Luminaire Tested: SA4XXDIP-B1195D1205UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000902
REPORT IS A COMBINATION OF REPORTS P995515 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D1205UB35-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

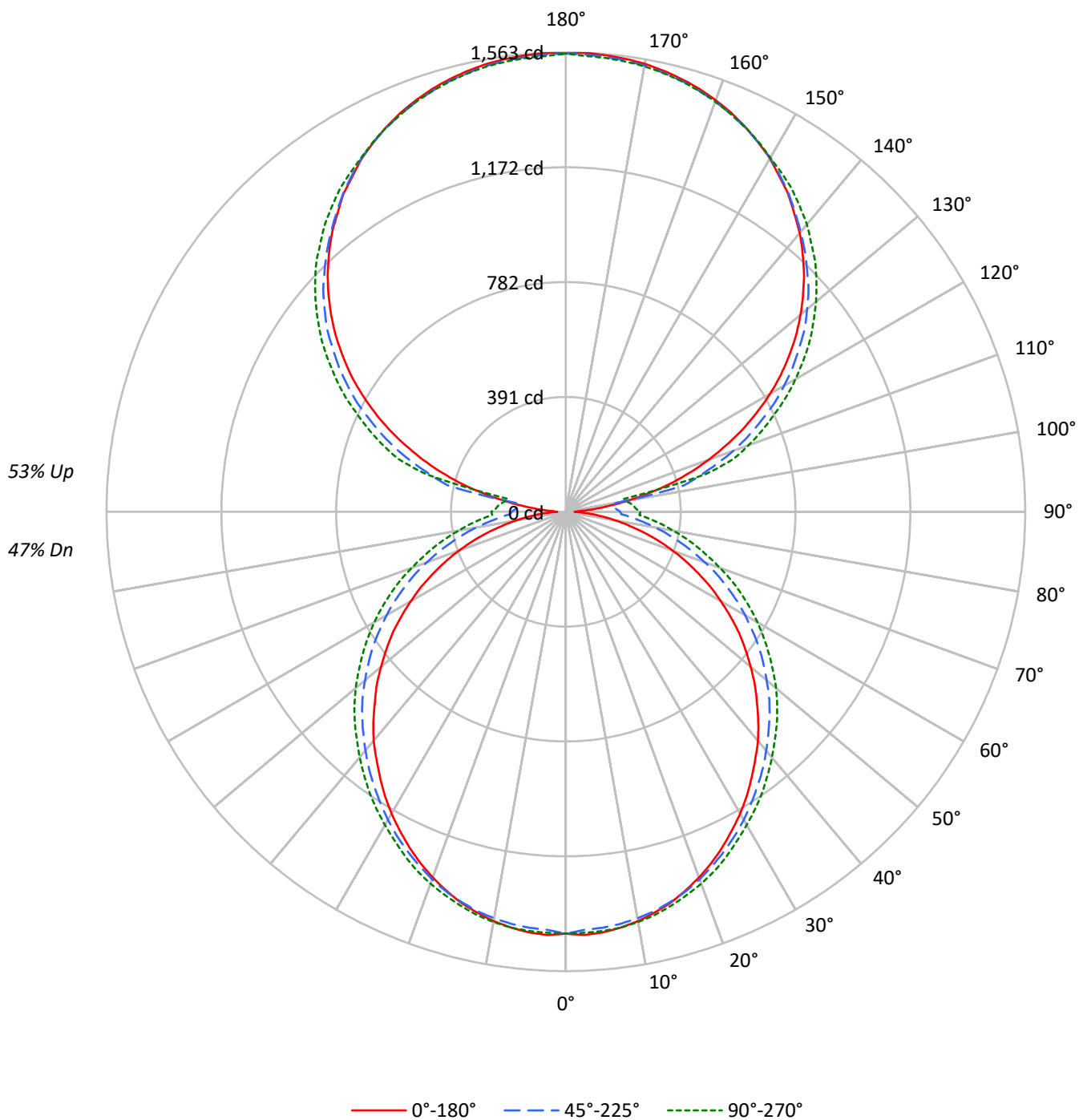
Lumens per Lamp: N/A
Luminaire Lumens: 9721.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1000902

CATALOG NUMBER: SA4XXDIP-B1195D1205UB35-4F0-XX-W2A-D

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47		
1	96	91	87	83	88	84	80	77	70	67	65	57	55	54	45	44	43	37		
2	87	79	73	67	80	73	67	62	61	57	53	50	47	44	39	37	35	30		
3	79	69	62	56	72	64	57	52	53	48	44	44	40	37	34	32	30	25		
4	72	61	53	47	66	56	49	43	47	42	37	39	34	31	31	28	25	21		
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22	18		
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19	16		
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	23	19	17	14		
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	17	15	13		
9	48	36	28	23	44	33	27	22	28	23	19	24	19	16	19	16	13	11		
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	15	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11702	11702	11702
5°	11735	11398	11418
10°	11659	11173	11142
15°	11550	10922	10829
20°	11388	10649	10526
25°	11206	10347	10199
30°	11008	10049	9865
35°	10786	9744	9569
40°	10607	9452	9261
45°	10343	9176	8989
50°	10116	8864	8702
55°	9883	8564	8372
60°	9521	8190	8061
65°	9124	7787	7687
70°	8641	7325	7256
75°	7965	6812	6843
80°	7206	6291	6412
85°	6200	5766	6064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10343 cd/sqm

TEST NUMBER: P1000902

CATALOG NUMBER: SA4XXDIP-B1195D1205UB35-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.4
10°-20°	389.6	4.0
20°-30°	589.1	6.1
30°-40°	712.7	7.3
40°-50°	753.4	7.8
50°-60°	709.1	7.3
60°-70°	588.4	6.1
70°-80°	412.9	4.2
80°-90°	236.0	2.4
90°-100°	190.4	2.0
100°-110°	443.5	4.6
110°-120°	719.7	7.4
120°-130°	865.1	8.9
130°-140°	900.7	9.3
140°-150°	829.9	8.5
150°-160°	666.5	6.9
160°-170°	429.9	4.4
170°-180°	148.2	1.5
0°-30°	1114.7	11.5
0°-40°	1827.4	18.8
0°-60°	3289.9	33.8
0°-90°	4527.3	46.6
90°-120°	1353.6	13.9
90°-150°	3949.2	40.6
90°-180°	5194.0	53.4
0°-180°	9721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1437	1432	1421	1434	1432	136
15°	1377	1379	1374	1388	1387	388
25°	1260	1270	1274	1292	1294	580
35°	1102	1122	1138	1160	1165	690
45°	919	950	980	1008	1016	710
55°	720	754	802	834	844	642
65°	498	550	604	644	657	494
75°	276	336	403	448	463	294
85°	85	153	225	273	289	89
90°	29	106	185	238	254	21
95°	85	98	166	216	232	96
105°	366	405	470	521	492	384
115°	665	683	733	771	782	655
125°	928	931	969	1003	1014	829
135°	1146	1145	1161	1189	1201	884
145°	1319	1321	1321	1332	1341	825
155°	1445	1446	1443	1447	1444	666
165°	1524	1518	1518	1528	1517	431
175°	1559	1552	1553	1564	1550	148
180°	1559	1559	1559	1559	1559	

TEST NUMBER: P1000902

CATALOG NUMBER: SA4XXDIP-B1195D1205UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1441.6	1436.8	1423.9	1435.1	1433.5
5°	1436.8	1431.9	1420.7	1433.5	1431.9
7.5°	1427.1	1423.9	1414.3	1428.7	1427.1
10°	1414.3	1412.6	1404.6	1419.1	1417.5
12.5°	1396.6	1396.6	1391.8	1404.6	1404.6
15°	1377.3	1378.9	1374.1	1388.5	1386.9
17.5°	1351.6	1356.4	1354.8	1369.3	1367.6
20°	1324.3	1329.1	1330.7	1346.8	1346.8
22.5°	1293.7	1300.1	1303.4	1319.4	1322.6
25°	1260.0	1269.6	1274.4	1292.1	1293.7
27.5°	1223.0	1237.5	1243.9	1260.0	1261.6
30°	1186.0	1198.9	1210.2	1227.8	1231.0
32.5°	1145.9	1161.9	1174.8	1195.7	1198.9
35°	1102.5	1121.8	1137.8	1160.3	1165.2
37.5°	1059.1	1081.6	1100.9	1123.4	1128.2
40°	1017.3	1038.2	1060.7	1084.8	1091.2
42.5°	969.1	993.2	1020.5	1047.8	1052.7
45°	919.3	949.8	980.3	1007.7	1015.7
47.5°	872.7	903.2	938.5	965.9	975.5
50°	821.2	856.6	891.9	924.1	933.7
52.5°	769.8	805.2	846.9	879.1	888.7
55°	720.0	753.7	801.9	834.1	843.7
57.5°	663.7	705.5	752.1	790.7	798.7
60°	609.1	650.9	703.9	740.9	753.7
62.5°	556.1	602.7	655.7	692.7	705.5
65°	498.2	549.6	604.3	644.4	657.3
67.5°	443.6	498.2	556.1	596.2	609.1
70°	387.3	442.0	503.0	546.4	557.7
72.5°	332.7	388.9	454.8	496.6	509.5
75°	276.4	335.9	403.4	448.4	462.8
77.5°	223.4	286.1	356.8	401.8	417.8
80°	175.2	239.5	310.2	358.4	371.2
82.5°	127.0	194.5	265.2	315.0	329.5
85°	85.2	152.7	225.0	273.2	289.3
87.5°	53.0	118.9	189.6	236.2	250.7
90°	29.2	106.3	184.8	238.4	253.6
92.5°	41.6	95.6	174.0	226.0	238.8
95°	85.0	98.4	165.5	215.9	231.5
97.5°	141.8	214.0	157.5	205.1	220.7
100°	209.0	271.7	173.4	197.0	209.5
102.5°	285.9	335.2	410.3	189.7	202.5
105°	365.5	404.6	470.0	520.6	491.5
107.5°	441.3	472.1	536.5	582.5	598.5
110°	516.7	542.7	605.9	645.2	661.5

TEST NUMBER: P1000902

CATALOG NUMBER: SA4XXDIP-B1195D1205UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	589.6	615.9	671.4	705.5	723.1
115°	665.0	683.0	733.2	771.0	782.2
117.5°	733.8	748.2	799.9	832.4	845.3
120°	802.2	811.8	857.2	891.6	902.2
122.5°	867.5	869.8	915.6	948.9	957.8
125°	927.7	930.8	968.6	1002.6	1013.5
127.5°	987.2	986.7	1024.8	1052.5	1062.5
130°	1042.7	1042.3	1071.5	1101.7	1111.3
132.5°	1095.2	1095.9	1119.9	1148.4	1156.9
135°	1146.1	1144.9	1160.9	1188.9	1200.8
137.5°	1192.7	1191.1	1203.4	1229.8	1236.7
140°	1238.2	1238.9	1242.9	1267.3	1276.4
142.5°	1277.4	1282.1	1281.7	1301.7	1308.1
145°	1319.4	1321.3	1321.3	1332.1	1340.9
147.5°	1352.1	1357.5	1356.3	1359.1	1366.6
150°	1388.2	1391.3	1390.1	1390.1	1391.3
152.5°	1416.9	1420.4	1418.1	1420.4	1419.3
155°	1444.9	1446.1	1442.6	1447.3	1443.8
157.5°	1469.4	1469.4	1464.8	1470.6	1464.8
160°	1490.4	1486.9	1485.7	1492.7	1485.7
162.5°	1509.1	1504.4	1503.2	1510.2	1502.1
165°	1524.2	1518.4	1518.4	1527.7	1517.2
167.5°	1537.1	1531.2	1530.1	1540.6	1528.9
170°	1547.6	1540.6	1541.7	1551.1	1539.4
172.5°	1554.6	1547.6	1548.7	1558.1	1545.2
175°	1559.2	1552.2	1553.4	1563.9	1549.9
177.5°	1562.7	1554.6	1556.9	1566.2	1552.2
180°	1559.2	1559.2	1559.2	1559.2	1559.2

(END OF REPORT)