

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: P1000904

Luminaire Tested: SA4XXDIP-B1195D1205UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000904
REPORT IS A COMBINATION OF REPORTS P995517 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-D4
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

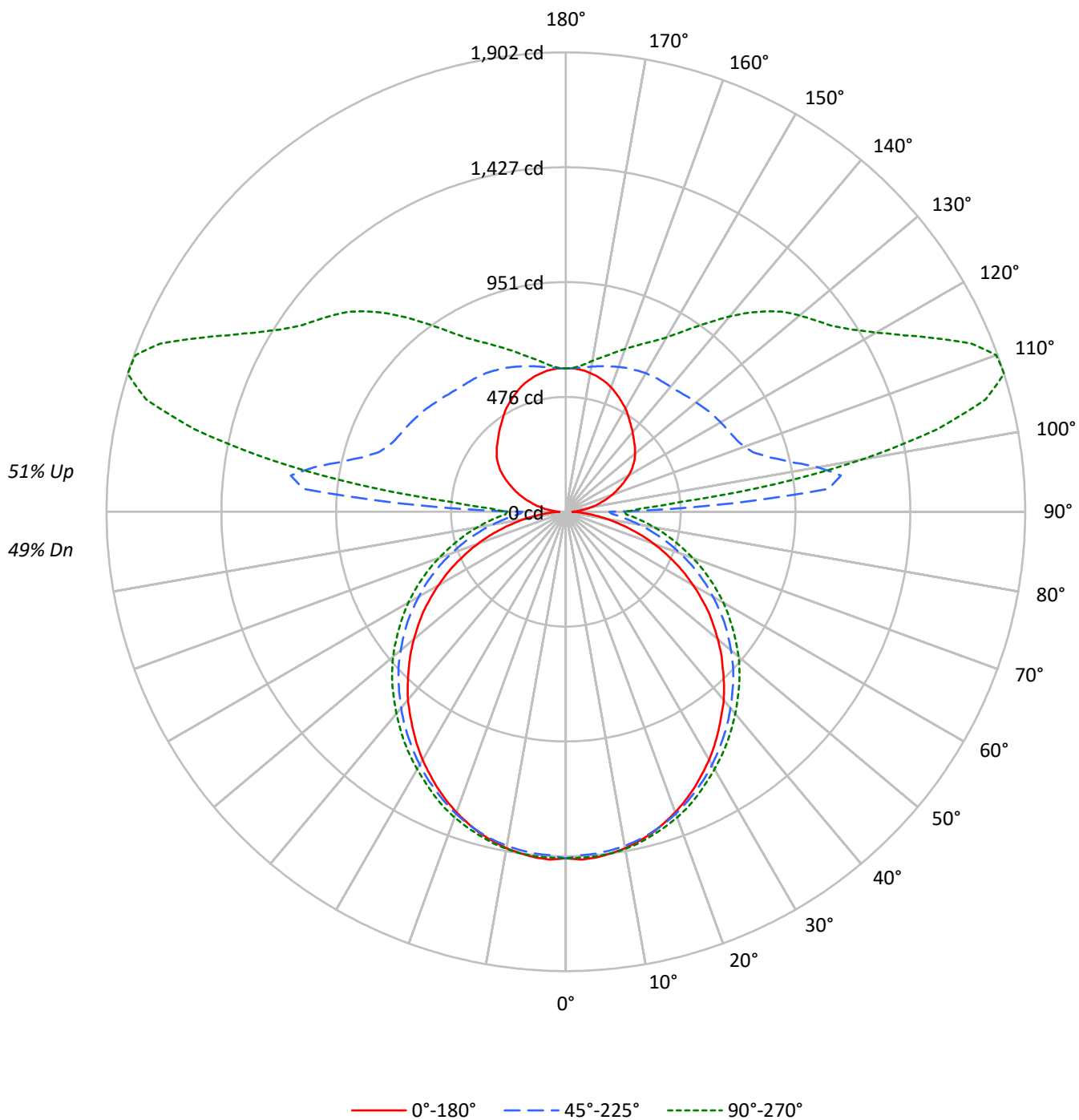
Lumens per Lamp: N/A
Luminaire Lumens: 9227.7 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	99	99	99	99	83	83	83	68	68	68	55	55	55
1	97	92	88	84	89	85	81	78	71	68	66	59	57	55	47	46	45
2	88	80	73	68	80	73	68	63	62	57	54	51	48	45	41	39	37
3	80	70	62	56	73	64	57	52	54	49	45	45	41	38	36	33	31
4	73	61	53	47	66	57	49	44	48	42	38	40	35	32	32	29	26
5	67	54	46	40	61	50	43	37	43	37	32	35	31	27	29	25	23
6	61	49	40	34	56	45	38	32	38	32	28	32	27	24	26	23	20
7	57	44	36	30	52	41	33	28	35	29	25	29	24	21	24	20	18
8	52	40	32	26	48	37	30	25	32	26	22	26	22	19	22	18	16
9	49	36	29	23	45	34	27	22	29	23	19	24	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	17	22	18	15	18	15	13

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.5
10°-20°	389.6	4.2
20°-30°	589.1	6.4
30°-40°	712.7	7.7
40°-50°	753.4	8.2
50°-60°	709.1	7.7
60°-70°	588.4	6.4
70°-80°	412.9	4.5
80°-90°	235.1	2.5
90°-100°	579.6	6.3
100°-110°	999.5	10.8
110°-120°	868.3	9.4
120°-130°	710.3	7.7
130°-140°	577.1	6.3
140°-150°	431.3	4.7
150°-160°	300.8	3.3
160°-170°	176.9	1.9
170°-180°	57.5	0.6
0°-30°	1114.7	12.1
0°-40°	1827.4	19.8
0°-60°	3289.9	35.7
0°-90°	4526.3	49.1
90°-120°	2447.4	26.5
90°-150°	4166.1	45.1
90°-180°	4701.0	50.9
0°-180°	9227.7	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°	27	99	180	229	243	20
95°	59	195	1090	654	482	59
105°	151	244	871	1794	1800	162
115°	250	326	758	1422	1698	248
125°	341	402	724	1191	1342	304
135°	401	477	688	1030	1174	310
145°	460	525	670	845	934	289
155°	521	563	651	737	769	241
165°	568	586	624	661	671	160
175°	592	594	598	606	604	56
180°	594	594	594	594	594	

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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°	26.9	99.3	180.1	229.0	243.1
92.5°	40.4	170.2	606.7	345.6	313.4
95°	59.4	195.2	1090.3	653.8	482.3
97.5°	83.4	200.0	1148.8	1134.6	871.4
100°	106.3	211.2	1059.8	1495.1	1246.3
102.5°	129.7	225.6	952.7	1716.4	1574.1
105°	151.0	244.3	871.2	1793.6	1800.1
107.5°	177.8	265.2	815.3	1759.4	1902.4
110°	203.0	284.4	786.7	1656.4	1896.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	227.0	305.2	768.2	1532.5	1818.3
115°	249.9	325.6	757.8	1421.8	1697.8
117.5°	275.5	345.8	748.6	1331.6	1581.3
120°	299.6	363.9	740.6	1267.8	1483.1
122.5°	322.9	383.0	731.4	1224.2	1403.4
125°	341.1	402.5	723.8	1191.0	1342.5
127.5°	359.8	423.5	713.5	1157.6	1301.7
130°	373.3	442.3	704.2	1121.0	1264.1
132.5°	388.5	459.8	696.6	1079.0	1224.6
135°	400.9	476.7	687.5	1030.4	1174.1
137.5°	414.9	489.7	681.0	980.3	1116.7
140°	430.1	503.1	675.0	931.5	1056.1
142.5°	444.8	515.4	671.8	887.2	992.1
145°	460.0	524.8	669.5	844.6	934.0
147.5°	477.4	535.4	666.0	808.1	879.2
150°	493.8	545.2	662.5	780.2	832.7
152.5°	507.3	554.6	656.6	758.1	797.7
155°	521.3	562.8	650.8	737.1	768.6
157.5°	535.3	570.3	645.0	717.2	741.8
160°	548.2	576.7	638.0	697.4	717.3
162.5°	559.8	582.0	631.0	678.2	693.9
165°	568.0	585.5	624.0	660.7	670.6
167.5°	577.3	588.4	617.0	645.6	652.0
170°	583.1	590.8	610.0	630.4	634.5
172.5°	589.0	592.4	603.0	617.0	617.0
175°	592.5	593.6	598.3	606.5	604.1
177.5°	594.8	593.6	594.8	598.9	594.8
180°	593.6	593.6	593.6	593.6	593.6

(END OF REPORT)