

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: P1000920

Luminaire Tested: SA4XXDIP-B1195D1205UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000920
REPORT IS A COMBINATION OF REPORTS P995533 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D1205UB50-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

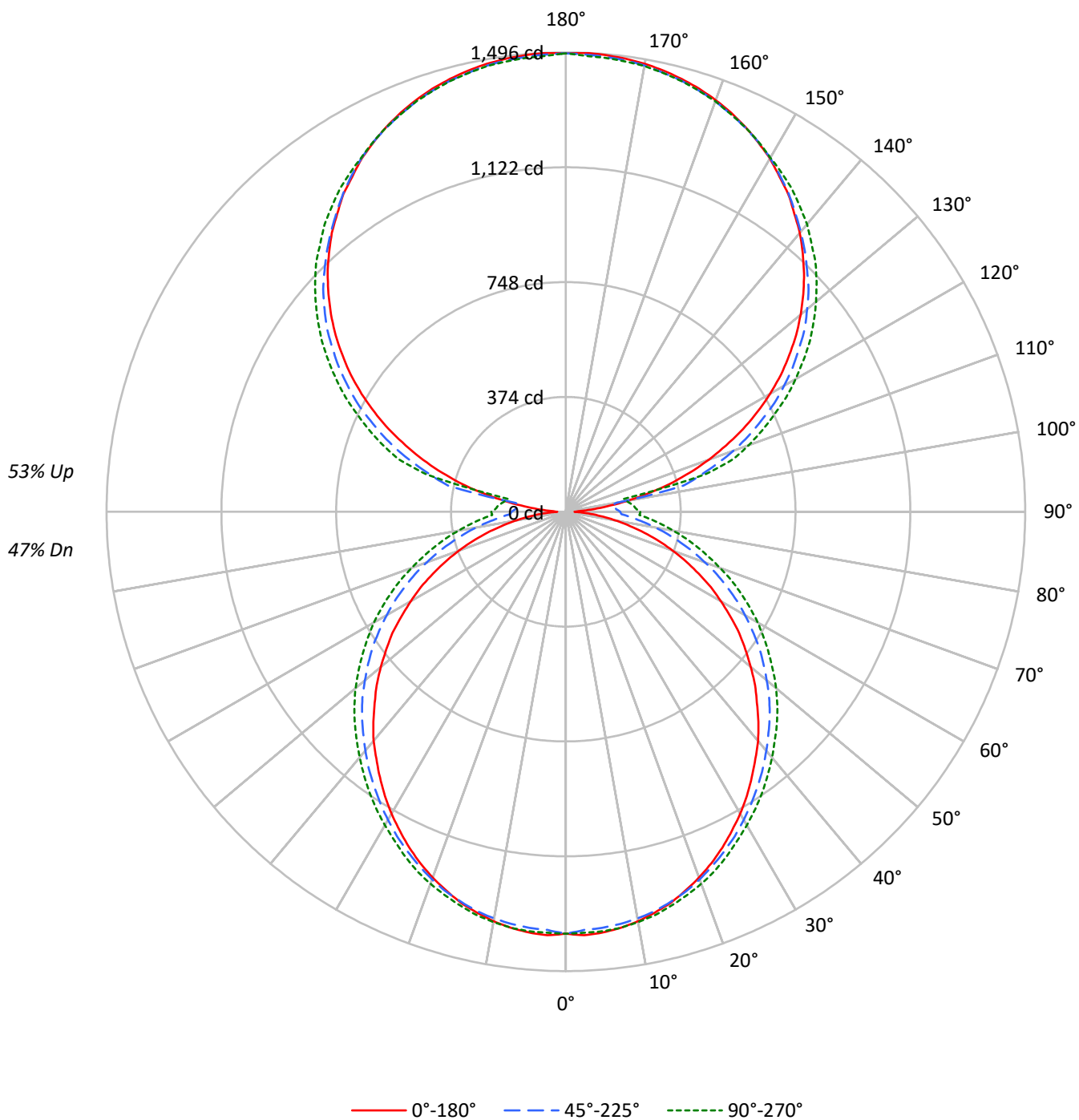
Lumens per Lamp: N/A
Luminaire Lumens: 9307.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11205	11205	11205
5°	11236	10913	10933
10°	11163	10699	10668
15°	11059	10457	10369
20°	10904	10196	10078
25°	10729	9908	9765
30°	10541	9622	9446
35°	10327	9330	9162
40°	10156	9050	8867
45°	9903	8787	8607
50°	9686	8488	8332
55°	9463	8201	8017
60°	9117	7842	7719
65°	8735	7456	7361
70°	8272	7013	6947
75°	7628	6522	6553
80°	6897	6023	6141
85°	5938	5520	5806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9903 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	1.4
10°-20°	373.1	4.0
20°-30°	564.1	6.1
30°-40°	682.4	7.3
40°-50°	721.4	7.8
50°-60°	678.9	7.3
60°-70°	563.4	6.1
70°-80°	395.4	4.2
80°-90°	226.0	2.4
90°-100°	182.2	2.0
100°-110°	424.6	4.6
110°-120°	689.1	7.4
120°-130°	828.2	8.9
130°-140°	862.3	9.3
140°-150°	794.4	8.5
150°-160°	638.1	6.9
160°-170°	411.5	4.4
170°-180°	141.8	1.5
0°-30°	1067.3	11.5
0°-40°	1749.7	18.8
0°-60°	3150.1	33.8
0°-90°	4334.8	46.6
90°-120°	1295.9	13.9
90°-150°	3780.8	40.6
90°-180°	4972.0	53.4
0°-180°	9307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1376	1371	1360	1373	1371	131
15°	1319	1320	1316	1330	1328	372
25°	1206	1216	1220	1237	1239	556
35°	1056	1074	1090	1111	1116	661
45°	880	909	939	965	972	680
55°	689	722	768	799	808	614
65°	477	526	579	617	629	473
75°	265	322	386	429	443	281
85°	82	146	215	262	277	85
90°	28	102	177	228	243	20
95°	81	94	158	207	222	92
105°	350	387	450	498	470	367
115°	637	654	702	738	749	627
125°	888	891	927	960	970	794
135°	1097	1096	1111	1138	1150	846
145°	1263	1265	1265	1275	1284	789
155°	1383	1384	1381	1386	1382	638
165°	1459	1454	1454	1462	1452	412
175°	1493	1486	1487	1497	1484	142
180°	1493	1493	1493	1493	1493	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.1	1374.1	1374.1	1374.1	1374.1
2.5°	1380.3	1375.7	1363.4	1374.1	1372.6
5°	1375.7	1371.1	1360.3	1372.6	1371.1
7.5°	1366.4	1363.4	1354.1	1368.0	1366.4
10°	1354.1	1352.6	1344.9	1358.8	1357.2
12.5°	1337.2	1337.2	1332.6	1344.9	1344.9
15°	1318.7	1320.3	1315.7	1329.5	1328.0
17.5°	1294.1	1298.7	1297.2	1311.0	1309.5
20°	1268.0	1272.6	1274.1	1289.5	1289.5
22.5°	1238.7	1244.9	1248.0	1263.3	1266.4
25°	1206.4	1215.6	1220.3	1237.2	1238.7
27.5°	1171.0	1184.9	1191.0	1206.4	1207.9
30°	1135.6	1147.9	1158.7	1175.6	1178.7
32.5°	1097.2	1112.5	1124.9	1144.9	1147.9
35°	1055.6	1074.1	1089.5	1111.0	1115.6
37.5°	1014.1	1035.6	1054.1	1075.6	1080.2
40°	974.1	994.1	1015.6	1038.7	1044.8
42.5°	927.9	951.0	977.1	1003.3	1007.9
45°	880.2	909.4	938.7	964.8	972.5
47.5°	835.6	864.8	898.7	924.8	934.0
50°	786.3	820.2	854.0	884.8	894.0
52.5°	737.1	770.9	810.9	841.7	850.9
55°	689.4	721.7	767.9	798.6	807.9
57.5°	635.5	675.5	720.2	757.1	764.8
60°	583.2	623.2	674.0	709.4	721.7
62.5°	532.4	577.0	627.8	663.2	675.5
65°	477.0	526.3	578.6	617.1	629.4
67.5°	424.7	477.0	532.4	570.9	583.2
70°	370.8	423.2	481.6	523.2	534.0
72.5°	318.5	372.4	435.5	475.5	487.8
75°	264.7	321.6	386.2	429.3	443.2
77.5°	213.9	273.9	341.6	384.7	400.1
80°	167.7	229.3	297.0	343.1	355.5
82.5°	121.6	186.2	253.9	301.6	315.5
85°	81.6	146.2	215.4	261.6	277.0
87.5°	50.8	113.9	181.6	226.2	240.1
90°	27.9	101.8	176.9	228.3	242.8
92.5°	39.8	91.4	166.5	216.3	228.6
95°	81.4	94.2	158.5	206.7	221.7
97.5°	135.7	204.9	150.8	196.3	211.3
100°	200.0	260.1	166.0	188.6	200.6
102.5°	273.7	321.0	392.9	181.7	194.0
105°	349.9	387.3	449.9	498.4	470.5
107.5°	422.4	452.0	513.7	557.7	572.9
110°	494.6	519.6	580.1	617.7	633.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	564.6	589.7	642.7	675.5	692.2
115°	636.6	653.9	702.0	738.1	748.8
117.5°	702.5	716.3	765.7	796.9	809.3
120°	768.0	777.1	820.6	853.6	863.7
122.5°	830.5	832.8	876.5	908.4	917.0
125°	888.2	891.1	927.3	959.9	970.3
127.5°	945.1	944.7	981.0	1007.6	1017.3
130°	998.2	997.9	1025.8	1054.6	1063.8
132.5°	1048.5	1049.2	1072.1	1099.4	1107.5
135°	1097.2	1096.1	1111.3	1138.2	1149.6
137.5°	1141.9	1140.3	1152.1	1177.4	1184.0
140°	1185.4	1186.1	1189.9	1213.2	1222.1
142.5°	1222.9	1227.4	1227.0	1246.1	1252.3
145°	1263.1	1264.9	1264.9	1275.3	1283.7
147.5°	1294.3	1299.5	1298.4	1301.0	1308.4
150°	1329.0	1331.9	1330.8	1330.8	1331.9
152.5°	1356.5	1359.8	1357.6	1359.8	1358.7
155°	1383.3	1384.4	1381.0	1385.5	1382.2
157.5°	1406.7	1406.7	1402.3	1407.8	1402.3
160°	1426.8	1423.5	1422.4	1429.1	1422.4
162.5°	1444.7	1440.2	1439.1	1445.8	1438.0
165°	1459.2	1453.6	1453.6	1462.5	1452.5
167.5°	1471.5	1465.9	1464.8	1474.8	1463.7
170°	1481.5	1474.8	1475.9	1484.9	1473.7
172.5°	1488.2	1481.5	1482.6	1491.6	1479.3
175°	1492.7	1486.0	1487.1	1497.2	1483.8
177.5°	1496.0	1488.2	1490.5	1499.4	1486.0
180°	1492.7	1492.7	1492.7	1492.7	1492.7

(END OF REPORT)