

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: P1025105

Luminaire Tested: S124DIP-B1195D1205UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025105
REPORT IS A COMBINATION OF REPORTS P995525 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D1205UB40-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

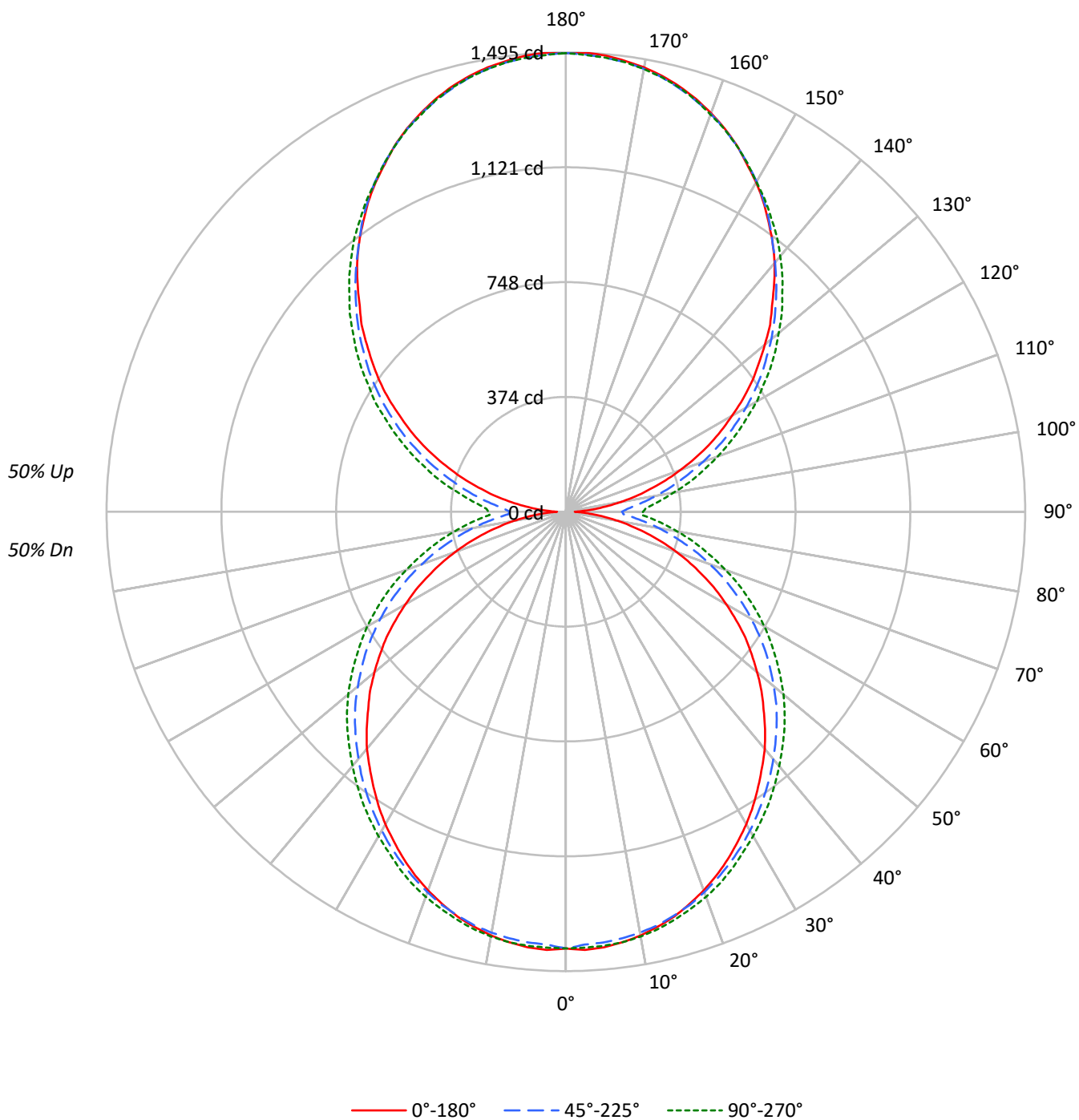
Lumens per Lamp: N/A
Luminaire Lumens: 8989.9 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	48	47	45
2	88	80	73	68	80	74	68	63	62	58	54	51	48	45	42	39	37
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	36	34	31
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23
6	61	49	40	34	56	45	38	32	38	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	33	28	35	29	25	29	25	21	24	20	18
8	52	40	32	26	48	37	30	25	32	26	22	27	22	19	22	18	16
9	49	36	29	24	45	34	27	22	29	23	20	24	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11588	11588	11588
5°	11620	11286	11307
10°	11545	11064	11033
15°	11437	10814	10723
20°	11277	10544	10422
25°	11096	10246	10099
30°	10901	9951	9769
35°	10681	9649	9474
40°	10502	9359	9170
45°	10241	9087	8901
50°	10018	8778	8617
55°	9786	8480	8290
60°	9428	8109	7982
65°	9034	7709	7612
70°	8556	7253	7184
75°	7887	6745	6776
80°	7136	6228	6350
85°	6134	5709	6003

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10241 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	1.5
10°-20°	385.8	4.3
20°-30°	583.3	6.5
30°-40°	705.7	7.9
40°-50°	746.0	8.3
50°-60°	702.1	7.8
60°-70°	582.6	6.5
70°-80°	408.9	4.5
80°-90°	233.7	2.6
90°-100°	234.5	2.6
100°-110°	393.0	4.4
110°-120°	563.3	6.3
120°-130°	691.3	7.7
130°-140°	750.0	8.3
140°-150°	724.1	8.1
150°-160°	606.3	6.7
160°-170°	403.4	4.5
170°-180°	141.2	1.6
0°-30°	1103.7	12.3
0°-40°	1809.5	20.1
0°-60°	3257.6	36.2
0°-90°	4482.8	49.9
90°-120°	1190.8	13.2
90°-150°	3356.3	37.3
90°-180°	4507.0	50.1
0°-180°	8989.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1423	1418	1407	1420	1418	135
15°	1364	1365	1361	1375	1373	384
25°	1248	1257	1262	1279	1281	575
35°	1092	1111	1127	1149	1154	684
45°	910	940	971	998	1006	704
55°	713	746	794	826	836	635
65°	493	544	598	638	651	489
75°	274	333	399	444	458	291
85°	84	151	223	270	286	88
90°	29	105	183	236	251	23
95°	90	153	226	273	287	92
105°	283	316	380	423	439	301
115°	513	527	576	610	620	507
125°	740	738	776	804	812	660
135°	949	956	967	990	996	734
145°	1150	1153	1154	1163	1166	720
155°	1316	1316	1315	1320	1315	606
165°	1433	1429	1427	1434	1429	404
175°	1490	1485	1484	1492	1484	142
180°	1493	1493	1493	1493	1493	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.1	1421.1	1421.1	1421.1	1421.1
2.5°	1427.4	1422.7	1409.9	1421.1	1419.5
5°	1422.7	1417.9	1406.7	1419.5	1417.9
7.5°	1413.1	1409.9	1400.4	1414.7	1413.1
10°	1400.4	1398.8	1390.8	1405.2	1403.6
12.5°	1382.9	1382.9	1378.1	1390.8	1390.8
15°	1363.8	1365.4	1360.6	1374.9	1373.3
17.5°	1338.3	1343.1	1341.5	1355.8	1354.2
20°	1311.3	1316.0	1317.6	1333.5	1333.5
22.5°	1281.0	1287.4	1290.6	1306.5	1309.7
25°	1247.6	1257.2	1261.9	1279.4	1281.0
27.5°	1211.0	1225.3	1231.7	1247.6	1249.2
30°	1174.4	1187.1	1198.3	1215.8	1219.0
32.5°	1134.6	1150.5	1163.3	1184.0	1187.1
35°	1091.7	1110.8	1126.7	1148.9	1153.7
37.5°	1048.7	1071.0	1090.1	1112.3	1117.1
40°	1007.3	1028.0	1050.3	1074.2	1080.5
42.5°	959.6	983.4	1010.5	1037.6	1042.3
45°	910.2	940.5	970.7	997.8	1005.7
47.5°	864.1	894.3	929.3	956.4	965.9
50°	813.2	848.2	883.2	915.0	924.6
52.5°	762.3	797.3	838.6	870.5	880.0
55°	712.9	746.3	794.1	825.9	835.5
57.5°	657.2	698.6	744.7	782.9	790.9
60°	603.1	644.5	697.0	733.6	746.3
62.5°	550.6	596.8	649.3	685.9	698.6
65°	493.3	544.2	598.3	638.1	650.9
67.5°	439.2	493.3	550.6	590.4	603.1
70°	383.5	437.6	498.1	541.1	552.2
72.5°	329.4	385.1	450.3	491.7	504.5
75°	273.7	332.6	399.4	444.0	458.3
77.5°	221.2	283.3	353.3	397.8	413.7
80°	173.5	237.1	307.1	354.9	367.6
82.5°	125.7	192.6	262.6	311.9	326.2
85°	84.3	151.2	222.8	270.5	286.4
87.5°	52.5	117.8	187.8	233.9	248.2
90°	29.0	105.3	182.9	236.0	251.0
92.5°	53.9	124.6	198.8	246.9	260.7
95°	90.0	152.9	226.1	272.6	286.9
97.5°	129.9	185.3	259.8	305.8	320.1
100°	179.1	225.1	297.5	342.8	353.9
102.5°	232.2	268.4	338.1	383.0	396.8
105°	283.3	316.2	379.8	423.0	439.2
107.5°	339.9	368.1	425.0	469.4	479.3
110°	396.0	420.6	475.1	509.4	525.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	454.4	473.5	523.7	558.8	571.5
115°	512.9	527.3	575.8	609.7	619.6
117.5°	569.4	579.0	625.6	655.6	664.8
120°	624.5	633.8	676.5	702.6	717.6
122.5°	683.4	684.5	726.3	754.6	760.0
125°	739.5	737.9	776.5	804.4	811.6
127.5°	791.4	793.3	822.8	849.1	859.1
130°	845.3	847.1	872.5	898.9	903.8
132.5°	901.8	902.5	920.5	945.2	953.6
135°	948.7	955.6	966.7	989.9	996.0
137.5°	1003.0	1004.8	1013.6	1033.9	1043.0
140°	1057.2	1057.9	1059.5	1079.1	1085.8
142.5°	1105.3	1107.6	1104.8	1122.3	1128.7
145°	1150.3	1153.3	1154.5	1162.8	1165.8
147.5°	1196.5	1200.7	1199.5	1199.9	1205.2
150°	1238.0	1241.1	1241.1	1241.1	1239.9
152.5°	1275.7	1278.0	1279.2	1282.6	1279.2
155°	1316.1	1316.1	1315.0	1319.6	1315.0
157.5°	1350.7	1348.4	1348.4	1351.9	1348.4
160°	1380.8	1379.6	1378.4	1381.9	1376.1
162.5°	1408.5	1405.0	1403.8	1410.8	1405.0
165°	1432.7	1429.2	1426.9	1433.9	1429.2
167.5°	1452.3	1447.7	1447.7	1454.6	1447.7
170°	1468.5	1462.7	1463.9	1470.8	1462.7
172.5°	1480.0	1475.4	1475.4	1483.5	1475.4
175°	1490.4	1484.7	1483.5	1491.6	1483.5
177.5°	1495.1	1489.3	1489.3	1497.4	1488.1
180°	1492.7	1492.7	1492.7	1492.7	1492.7

(END OF REPORT)