

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: P1012939

Luminaire Tested: S124DIP-B1195D1205UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012939
REPORT IS A COMBINATION OF REPORTS P995496 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D1205UB2750-4F0-XX-W2A-D_4000K
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

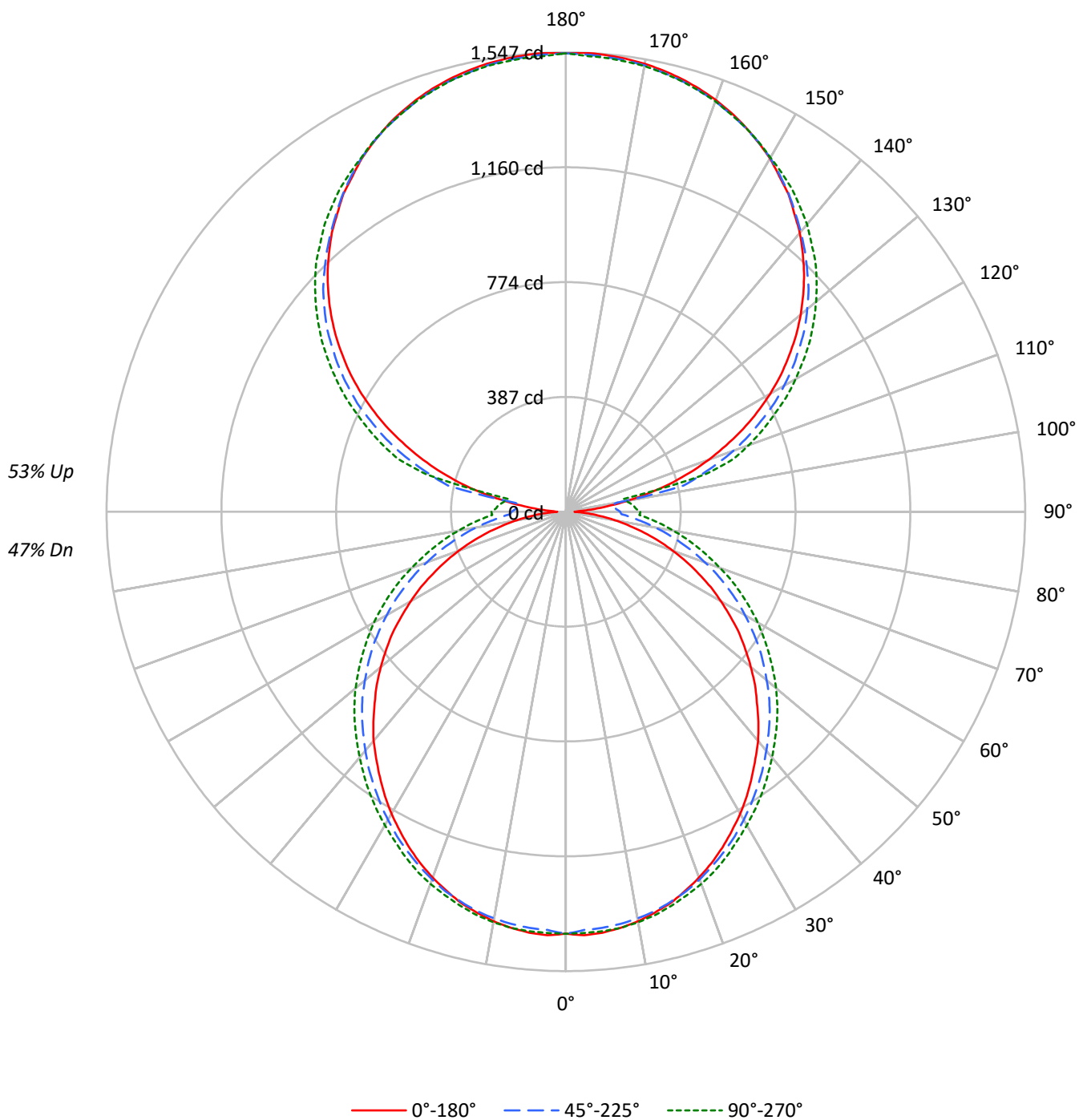
Lumens per Lamp: N/A
Luminaire Lumens: 9625.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	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°	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	1.4
10°-20°	385.8	4.0
20°-30°	583.3	6.1
30°-40°	705.7	7.3
40°-50°	746.0	7.8
50°-60°	702.1	7.3
60°-70°	582.6	6.1
70°-80°	408.9	4.2
80°-90°	233.7	2.4
90°-100°	188.5	2.0
100°-110°	439.1	4.6
110°-120°	712.6	7.4
120°-130°	856.5	8.9
130°-140°	891.8	9.3
140°-150°	821.6	8.5
150°-160°	659.9	6.9
160°-170°	425.6	4.4
170°-180°	146.7	1.5
0°-30°	1103.7	11.5
0°-40°	1809.5	18.8
0°-60°	3257.6	33.8
0°-90°	4482.8	46.6
90°-120°	1340.1	13.9
90°-150°	3910.0	40.6
90°-180°	5142.0	53.4
0°-180°	9625.0	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	21
95°	84	97	164	214	229	95
105°	362	401	465	515	487	380
115°	658	676	726	763	774	649
125°	918	922	959	993	1003	821
135°	1135	1134	1149	1177	1189	875
145°	1306	1308	1308	1319	1328	816
155°	1431	1432	1428	1433	1429	660
165°	1509	1503	1503	1512	1502	426
175°	1544	1537	1538	1548	1534	147
180°	1544	1544	1544	1544	1544	

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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°	41.2	94.6	172.2	223.8	236.5
95°	84.2	97.4	163.8	213.7	229.2
97.5°	140.3	211.8	155.9	203.1	218.5
100°	206.9	269.0	171.7	195.1	207.3
102.5°	283.1	331.9	406.3	187.9	200.6
105°	361.8	400.6	465.2	515.4	486.6
107.5°	436.9	467.5	531.2	576.8	592.5
110°	511.5	537.3	599.9	638.8	655.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	583.8	609.8	664.6	698.6	715.9
115°	658.4	676.3	726.0	763.3	774.4
117.5°	726.5	740.7	791.9	824.2	836.9
120°	794.3	803.6	848.7	882.8	893.2
122.5°	859.0	861.3	906.5	939.4	948.3
125°	918.5	921.6	959.1	992.7	1003.4
127.5°	977.4	977.0	1014.6	1042.0	1052.0
130°	1032.4	1032.0	1060.8	1090.7	1100.2
132.5°	1084.4	1085.1	1108.8	1136.9	1145.4
135°	1134.7	1133.6	1149.3	1177.1	1188.9
137.5°	1180.9	1179.3	1191.5	1217.6	1224.4
140°	1225.9	1226.6	1230.6	1254.7	1263.8
142.5°	1264.7	1269.4	1268.9	1288.7	1295.1
145°	1306.3	1308.2	1308.2	1318.8	1327.5
147.5°	1338.6	1344.0	1342.8	1345.6	1353.1
150°	1374.4	1377.5	1376.3	1376.3	1377.5
152.5°	1402.9	1406.3	1404.0	1406.3	1405.2
155°	1430.6	1431.7	1428.3	1432.9	1429.4
157.5°	1454.8	1454.8	1450.2	1456.0	1450.2
160°	1475.6	1472.1	1471.0	1477.9	1471.0
162.5°	1494.1	1489.5	1488.3	1495.2	1487.1
165°	1509.1	1503.3	1503.3	1512.5	1502.2
167.5°	1521.8	1516.0	1514.9	1525.2	1513.7
170°	1532.2	1525.2	1526.4	1535.6	1524.1
172.5°	1539.1	1532.2	1533.3	1542.6	1529.9
175°	1543.7	1536.8	1537.9	1548.3	1534.5
177.5°	1547.2	1539.1	1541.4	1550.6	1536.8
180°	1543.7	1543.7	1543.7	1543.7	1543.7

(END OF REPORT)