

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: P1025086

Luminaire Tested: S124DIP-B1195D1205UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025086
REPORT IS A COMBINATION OF REPORTS P995506 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D1205UB30-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

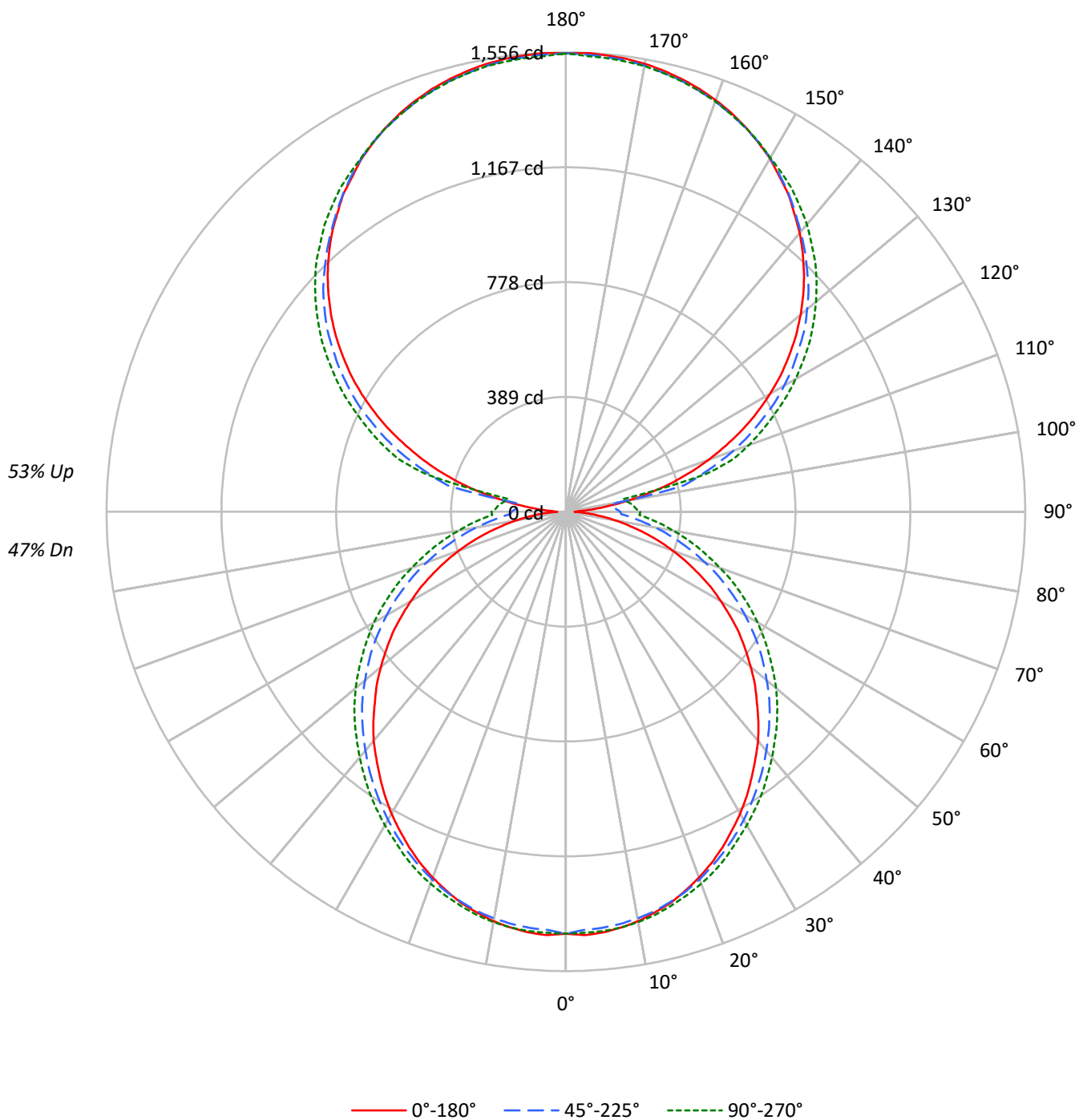
Lumens per Lamp: N/A
Luminaire Lumens: 9679.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	11653	11653	11653
5°	11685	11349	11370
10°	11609	11126	11094
15°	11501	10875	10783
20°	11339	10603	10481
25°	11158	10303	10156
30°	10962	10006	9823
35°	10739	9702	9528
40°	10561	9411	9221
45°	10298	9137	8950
50°	10073	8827	8665
55°	9841	8527	8336
60°	9481	8155	8027
65°	9085	7753	7654
70°	8605	7294	7225
75°	7931	6784	6815
80°	7173	6263	6384
85°	6171	5740	6037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10298 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	1.4
10°-20°	387.9	4.0
20°-30°	586.6	6.1
30°-40°	709.6	7.3
40°-50°	750.2	7.8
50°-60°	706.0	7.3
60°-70°	585.9	6.1
70°-80°	411.1	4.2
80°-90°	235.0	2.4
90°-100°	189.5	2.0
100°-110°	441.6	4.6
110°-120°	716.6	7.4
120°-130°	861.3	8.9
130°-140°	896.8	9.3
140°-150°	826.3	8.5
150°-160°	663.7	6.9
160°-170°	428.0	4.4
170°-180°	147.5	1.5
0°-30°	1109.9	11.5
0°-40°	1819.6	18.8
0°-60°	3275.8	33.8
0°-90°	4507.8	46.6
90°-120°	1347.7	13.9
90°-150°	3932.0	40.6
90°-180°	5171.0	53.4
0°-180°	9679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1431	1426	1415	1427	1426	136
15°	1371	1373	1368	1383	1381	386
25°	1255	1264	1269	1287	1288	578
35°	1098	1117	1133	1155	1160	687
45°	915	946	976	1003	1011	707
55°	717	750	798	830	840	639
65°	496	547	602	642	654	492
75°	275	334	402	446	461	292
85°	85	152	224	272	288	88
90°	29	106	184	237	252	21
95°	85	98	165	215	230	95
105°	364	403	468	518	489	382
115°	662	680	730	768	779	652
125°	924	927	964	998	1009	825
135°	1141	1140	1156	1184	1196	880
145°	1314	1316	1316	1326	1335	821
155°	1439	1440	1436	1441	1438	663
165°	1518	1512	1512	1521	1511	429
175°	1552	1546	1547	1557	1543	148
180°	1552	1552	1552	1552	1552	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.0	1429.0	1429.0	1429.0	1429.0
2.5°	1435.4	1430.6	1417.8	1429.0	1427.4
5°	1430.6	1425.8	1414.6	1427.4	1425.8
7.5°	1421.0	1417.8	1408.2	1422.6	1421.0
10°	1408.2	1406.6	1398.6	1413.0	1411.4
12.5°	1390.6	1390.6	1385.8	1398.6	1398.6
15°	1371.4	1373.0	1368.2	1382.6	1381.0
17.5°	1345.8	1350.6	1349.0	1363.4	1361.8
20°	1318.6	1323.4	1325.0	1341.0	1341.0
22.5°	1288.2	1294.6	1297.8	1313.8	1317.0
25°	1254.6	1264.2	1269.0	1286.6	1288.2
27.5°	1217.8	1232.2	1238.6	1254.6	1256.2
30°	1181.0	1193.8	1205.0	1222.6	1225.8
32.5°	1140.9	1157.0	1169.8	1190.6	1193.8
35°	1097.7	1116.9	1132.9	1155.4	1160.2
37.5°	1054.5	1076.9	1096.1	1118.5	1123.3
40°	1012.9	1033.7	1056.1	1080.1	1086.5
42.5°	964.9	988.9	1016.1	1043.3	1048.1
45°	915.3	945.7	976.1	1003.3	1011.3
47.5°	868.9	899.3	934.5	961.7	971.3
50°	817.7	852.9	888.1	920.1	929.7
52.5°	766.5	801.7	843.3	875.3	884.9
55°	716.9	750.5	798.5	830.5	840.1
57.5°	660.9	702.5	748.9	787.3	795.3
60°	606.5	648.1	700.9	737.7	750.5
62.5°	553.7	600.1	652.9	689.7	702.5
65°	496.1	547.3	601.7	641.7	654.5
67.5°	441.7	496.1	553.7	593.7	606.5
70°	385.7	440.1	500.9	544.1	555.3
72.5°	331.2	387.3	452.9	494.5	507.3
75°	275.2	334.4	401.7	446.5	460.9
77.5°	222.4	284.8	355.2	400.1	416.1
80°	174.4	238.4	308.8	356.8	369.6
82.5°	126.4	193.6	264.0	313.6	328.0
85°	84.8	152.0	224.0	272.0	288.0
87.5°	52.8	118.4	188.8	235.2	249.6
90°	29.1	105.9	183.9	237.3	252.4
92.5°	41.4	95.1	173.2	225.0	237.8
95°	84.7	98.0	164.7	214.9	230.5
97.5°	141.1	213.1	156.7	204.2	219.7
100°	208.0	270.5	172.7	196.2	208.5
102.5°	284.7	333.8	408.5	188.9	201.7
105°	363.9	402.9	467.9	518.3	489.3
107.5°	439.4	470.1	534.2	580.0	595.8
110°	514.4	540.3	603.3	642.4	658.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	587.1	613.3	668.4	702.5	719.9
115°	662.2	680.0	730.1	767.6	778.8
117.5°	730.7	744.9	796.4	828.8	841.6
120°	798.7	808.2	853.4	887.7	898.2
122.5°	863.8	866.1	911.6	944.8	953.6
125°	923.7	926.7	964.4	998.3	1009.1
127.5°	982.9	982.5	1020.3	1047.9	1058.0
130°	1038.2	1037.8	1066.9	1096.8	1106.4
132.5°	1090.5	1091.2	1115.0	1143.4	1151.8
135°	1141.1	1140.0	1155.8	1183.7	1195.6
137.5°	1187.6	1186.0	1198.2	1224.5	1231.3
140°	1232.8	1233.6	1237.5	1261.8	1270.9
142.5°	1271.9	1276.5	1276.1	1296.0	1302.4
145°	1313.7	1315.6	1315.6	1326.3	1335.1
147.5°	1346.2	1351.6	1350.4	1353.2	1360.7
150°	1382.2	1385.2	1384.1	1384.1	1385.2
152.5°	1410.8	1414.3	1411.9	1414.3	1413.1
155°	1438.6	1439.8	1436.3	1441.0	1437.5
157.5°	1463.0	1463.0	1458.4	1464.2	1458.4
160°	1483.9	1480.4	1479.3	1486.3	1479.3
162.5°	1502.5	1497.9	1496.7	1503.7	1495.5
165°	1517.6	1511.8	1511.8	1521.1	1510.6
167.5°	1530.4	1524.6	1523.4	1533.9	1522.2
170°	1540.8	1533.9	1535.0	1544.3	1532.7
172.5°	1547.8	1540.8	1542.0	1551.3	1538.5
175°	1552.4	1545.5	1546.6	1557.1	1543.1
177.5°	1555.9	1547.8	1550.1	1559.4	1545.5
180°	1552.4	1552.4	1552.4	1552.4	1552.4

(END OF REPORT)