

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: P1025096

Luminaire Tested: S124DIP-B1195D1205UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025096
REPORT IS A COMBINATION OF REPORTS P995516 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D1205UB35-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

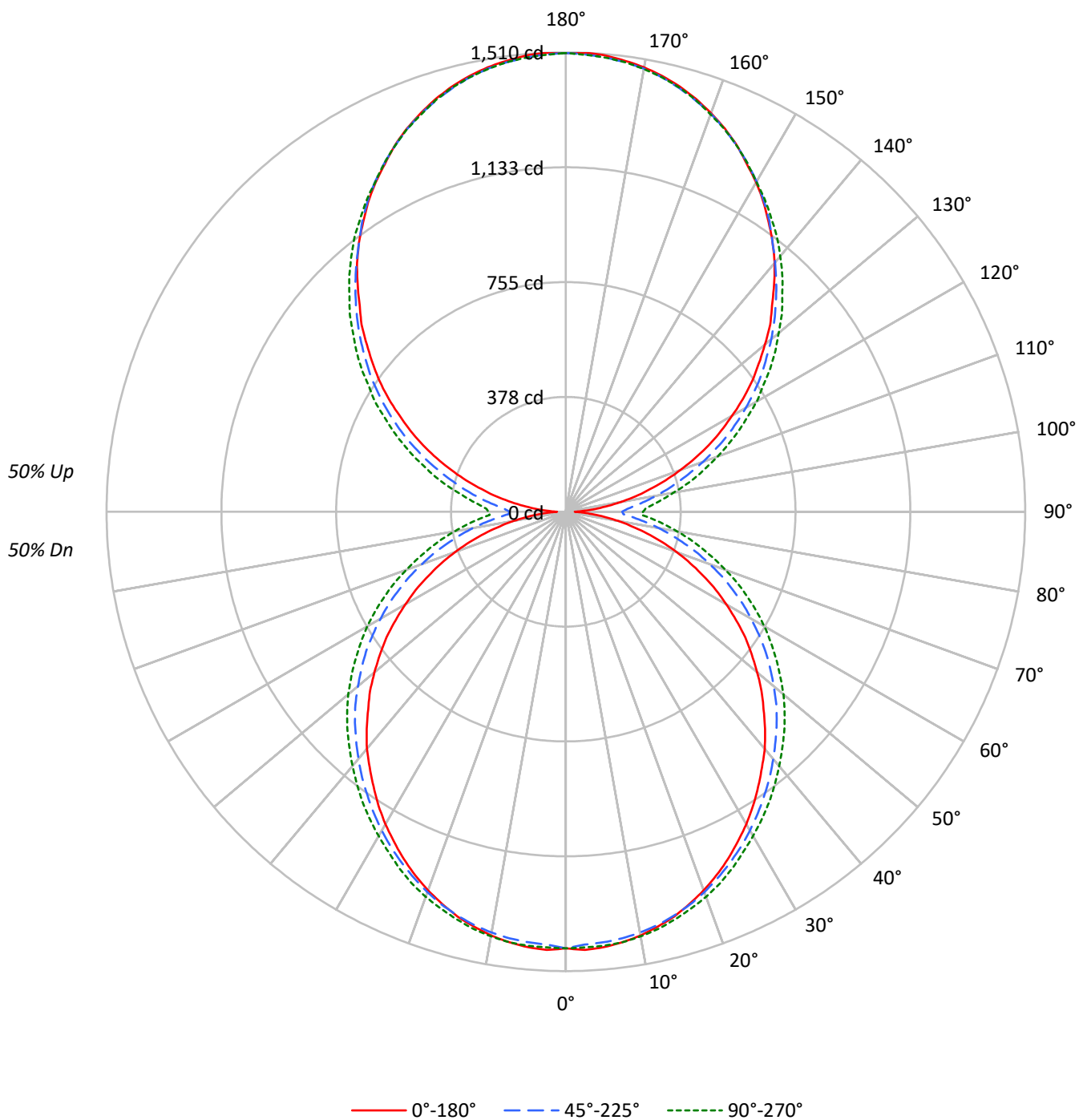
Lumens per Lamp: N/A
Luminaire Lumens: 9080.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	56
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	48	47	45	45	45	40
2	88	80	73	68	80	74	68	63	62	58	54	51	48	45	42	39	37	37	37	33
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	36	34	31	31	31	27
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27	27	27	23
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23	23	23	20
6	61	49	40	34	56	45	38	32	38	33	28	32	28	24	26	23	20	20	20	17
7	57	44	36	30	52	41	33	28	35	29	25	29	25	21	24	20	18	18	18	15
8	52	40	32	26	48	37	30	25	32	26	22	27	22	19	22	18	16	16	16	13
9	49	36	29	24	45	34	27	22	29	23	20	24	20	17	20	17	14	14	14	12
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13	13	13	11

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	4.3
20°-30°	589.1	6.5
30°-40°	712.7	7.8
40°-50°	753.4	8.3
50°-60°	709.1	7.8
60°-70°	588.4	6.5
70°-80°	412.9	4.5
80°-90°	236.0	2.6
90°-100°	236.9	2.6
100°-110°	397.0	4.4
110°-120°	569.0	6.3
120°-130°	698.3	7.7
130°-140°	757.6	8.3
140°-150°	731.4	8.1
150°-160°	612.4	6.7
160°-170°	407.5	4.5
170°-180°	142.7	1.6
0°-30°	1114.7	12.3
0°-40°	1827.4	20.1
0°-60°	3289.9	36.2
0°-90°	4527.3	49.9
90°-120°	1202.9	13.2
90°-150°	3390.2	37.3
90°-180°	4553.0	50.1
0°-180°	9080.0	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°	29	106	185	238	254	23
95°	91	154	228	275	290	92
105°	286	320	384	427	444	305
115°	518	533	582	616	626	512
125°	747	745	784	812	820	666
135°	958	965	977	1000	1006	742
145°	1162	1165	1166	1175	1178	727
155°	1329	1329	1328	1333	1328	612
165°	1447	1444	1441	1448	1444	408
175°	1506	1500	1498	1507	1498	143
180°	1508	1508	1508	1508	1508	

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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°	29.2	106.3	184.8	238.4	253.6
92.5°	54.4	125.9	200.8	249.3	263.3
95°	90.9	154.4	228.4	275.3	289.8
97.5°	131.3	187.2	262.4	308.9	323.3
100°	181.0	227.4	300.5	346.3	357.6
102.5°	234.6	271.1	341.5	386.8	400.8
105°	286.2	319.5	383.7	427.2	443.6
107.5°	343.4	371.8	429.2	474.1	484.2
110°	400.1	424.9	479.9	514.6	530.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	459.0	478.3	529.1	564.4	577.3
115°	518.1	532.6	581.6	615.9	625.9
117.5°	575.2	584.9	631.9	662.1	671.5
120°	630.7	640.3	683.4	709.7	724.9
122.5°	690.2	691.4	733.6	762.3	767.7
125°	746.9	745.3	784.4	812.5	819.9
127.5°	799.4	801.3	831.2	857.7	867.8
130°	853.8	855.7	881.4	908.0	913.0
132.5°	910.9	911.7	929.8	954.8	963.3
135°	958.3	965.3	976.6	1000.0	1006.1
137.5°	1013.1	1015.0	1023.7	1044.3	1053.6
140°	1067.9	1068.7	1070.3	1090.0	1096.8
142.5°	1116.5	1118.8	1116.0	1133.7	1140.1
145°	1161.9	1165.0	1166.2	1174.6	1177.6
147.5°	1208.6	1212.8	1211.7	1212.1	1217.3
150°	1250.6	1253.6	1253.6	1253.6	1252.5
152.5°	1288.6	1291.0	1292.1	1295.6	1292.1
155°	1329.4	1329.4	1328.3	1332.9	1328.3
157.5°	1364.4	1362.1	1362.1	1365.6	1362.1
160°	1394.7	1393.6	1392.4	1395.9	1390.1
162.5°	1422.7	1419.2	1418.1	1425.1	1419.2
165°	1447.2	1443.7	1441.4	1448.4	1443.7
167.5°	1467.1	1462.4	1462.4	1469.4	1462.4
170°	1483.4	1477.5	1478.7	1485.7	1477.5
172.5°	1495.0	1490.4	1490.4	1498.5	1490.4
175°	1505.5	1499.7	1498.5	1506.7	1498.5
177.5°	1510.2	1504.4	1504.4	1512.5	1503.2
180°	1507.9	1507.9	1507.9	1507.9	1507.9

(END OF REPORT)