

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: P1033338

Luminaire Tested: S124DIW-B1195D470UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033338
REPORT IS A COMBINATION OF REPORTS P997190 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B1195D470UB35-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

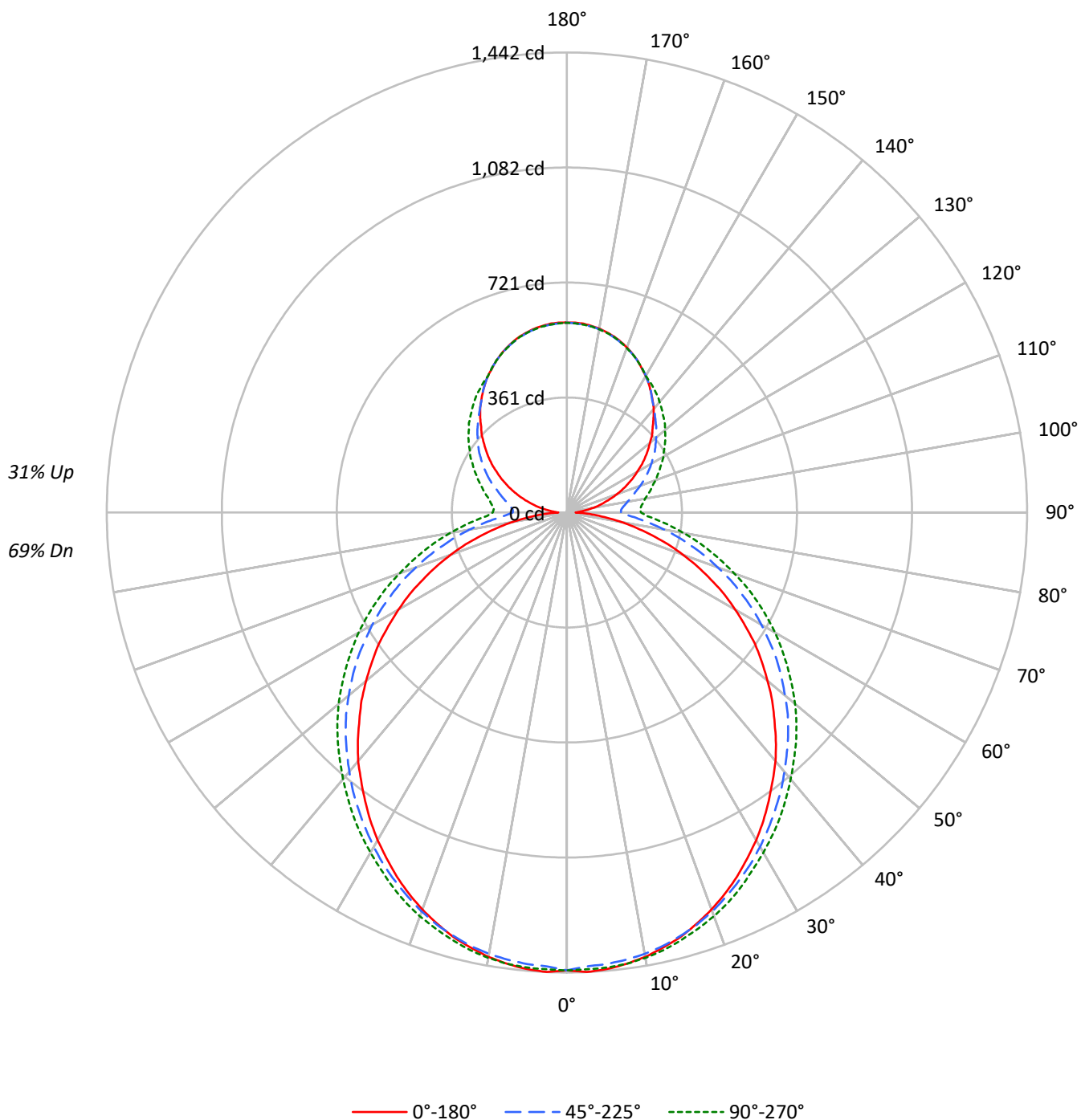
Lumens per Lamp: N/A
Luminaire Lumens: 6545.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
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

TEST NUMBER: P1033338

CATALOG NUMBER: S124DIW-B1195D470UB35-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1033338

CATALOG NUMBER: S124DIW-B1195D470UB35-4F0-XX-W2A-D1

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	112	112	112	112	106	106	106	106	94	94	94	83	83	83	74	74	74
1	101	96	91	87	95	90	86	83	80	77	74	71	69	67	63	61	60
2	91	83	76	70	86	78	72	67	70	65	61	62	58	55	55	52	49
3	83	72	64	58	78	68	61	55	61	55	50	54	50	46	48	44	41
4	76	64	55	48	71	60	52	46	54	48	42	48	43	39	43	38	35
5	69	57	48	41	65	54	46	40	48	42	36	43	38	33	38	34	30
6	64	51	42	36	60	48	40	34	43	37	32	39	33	29	35	30	26
7	59	46	37	31	55	44	36	30	39	33	28	35	30	26	31	27	23
8	55	42	33	28	52	40	32	27	36	29	25	32	27	23	29	24	21
9	51	38	30	25	48	36	29	24	33	27	22	30	24	20	27	22	19
10	48	35	27	22	45	33	26	21	30	24	20	27	22	19	25	20	17

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

TEST NUMBER: P1033338

CATALOG NUMBER: S124DIW-B1195D470UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	2.1
10°-20°	389.6	6.0
20°-30°	589.1	9.0
30°-40°	712.7	10.9
40°-50°	753.4	11.5
50°-60°	709.1	10.8
60°-70°	588.4	9.0
70°-80°	412.9	6.3
80°-90°	234.1	3.6
90°-100°	177.4	2.7
100°-110°	218.8	3.3
110°-120°	266.2	4.1
120°-130°	299.0	4.6
130°-140°	309.1	4.7
140°-150°	290.6	4.4
150°-160°	241.6	3.7
160°-170°	160.8	2.5
170°-180°	56.3	0.9
0°-30°	1114.7	17.0
0°-40°	1827.4	27.9
0°-60°	3289.9	50.3
0°-90°	4525.3	69.1
90°-120°	662.3	10.1
90°-150°	1561.0	23.9
90°-180°	2020.0	30.9
0°-180°	6545.0	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°	27	96	169	219	232	20
95°	48	106	175	220	234	47
105°	122	154	216	257	271	130
115°	210	225	275	310	321	208
125°	299	297	337	366	375	267
135°	380	383	394	419	427	295
145°	459	460	460	469	474	288
155°	524	524	524	526	524	241
165°	571	570	569	572	570	161
175°	594	592	591	594	591	56
180°	595	595	595	595	595	

TEST NUMBER: P1033338

CATALOG NUMBER: S124DIW-B1195D470UB35-4F0-XX-W2A-D1

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°	27.1	96.4	169.2	218.6	232.4
92.5°	36.1	98.3	169.7	216.1	229.4
95°	48.5	105.6	174.8	219.5	234.0
97.5°	63.5	113.8	183.3	227.0	241.4
100°	82.1	125.8	192.5	236.8	248.1
102.5°	103.3	139.0	203.8	247.0	260.3
105°	121.7	154.3	215.6	257.1	271.4
107.5°	144.3	172.0	228.7	270.7	281.6
110°	165.7	189.1	244.8	280.9	295.1

TEST NUMBER: P1033338

CATALOG NUMBER: S124DIW-B1195D470UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	187.9	207.2	259.4	294.7	307.6
115°	210.2	224.7	275.2	310.1	320.9
117.5°	232.8	242.5	290.2	322.5	334.0
120°	253.7	260.4	305.7	335.5	349.3
122.5°	277.2	277.6	320.6	351.4	360.3
125°	298.6	297.0	336.7	366.3	375.1
127.5°	319.3	319.1	350.3	378.3	389.1
130°	339.8	339.5	365.2	393.3	401.1
132.5°	362.3	361.6	380.5	406.9	416.1
135°	380.0	382.8	394.1	418.9	427.1
137.5°	401.7	401.4	408.8	431.5	440.0
140°	423.3	422.6	424.2	444.7	452.2
142.5°	441.5	442.4	440.3	458.0	464.4
145°	459.4	459.7	460.1	469.3	474.4
147.5°	477.8	478.5	478.1	479.2	485.1
150°	494.4	494.6	494.6	494.6	494.2
152.5°	508.4	509.4	509.8	511.2	509.8
155°	524.5	524.5	524.1	525.9	524.1
157.5°	538.3	537.4	537.4	538.8	537.4
160°	550.3	549.8	549.4	550.8	548.5
162.5°	561.3	560.0	559.5	562.3	560.0
165°	571.0	569.6	568.7	571.5	569.6
167.5°	578.8	577.0	577.0	579.8	577.0
170°	585.3	583.0	583.4	586.2	583.0
172.5°	589.9	588.0	588.0	591.3	588.0
175°	594.0	591.7	591.3	594.5	591.3
177.5°	595.9	593.6	593.6	596.8	593.1
180°	594.9	594.9	594.9	594.9	594.9

(END OF REPORT)