

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: P1008663

Luminaire Tested: S122DIP-B1005D530UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008663
REPORT IS A COMBINATION OF REPORTS P983685 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D530UB40-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

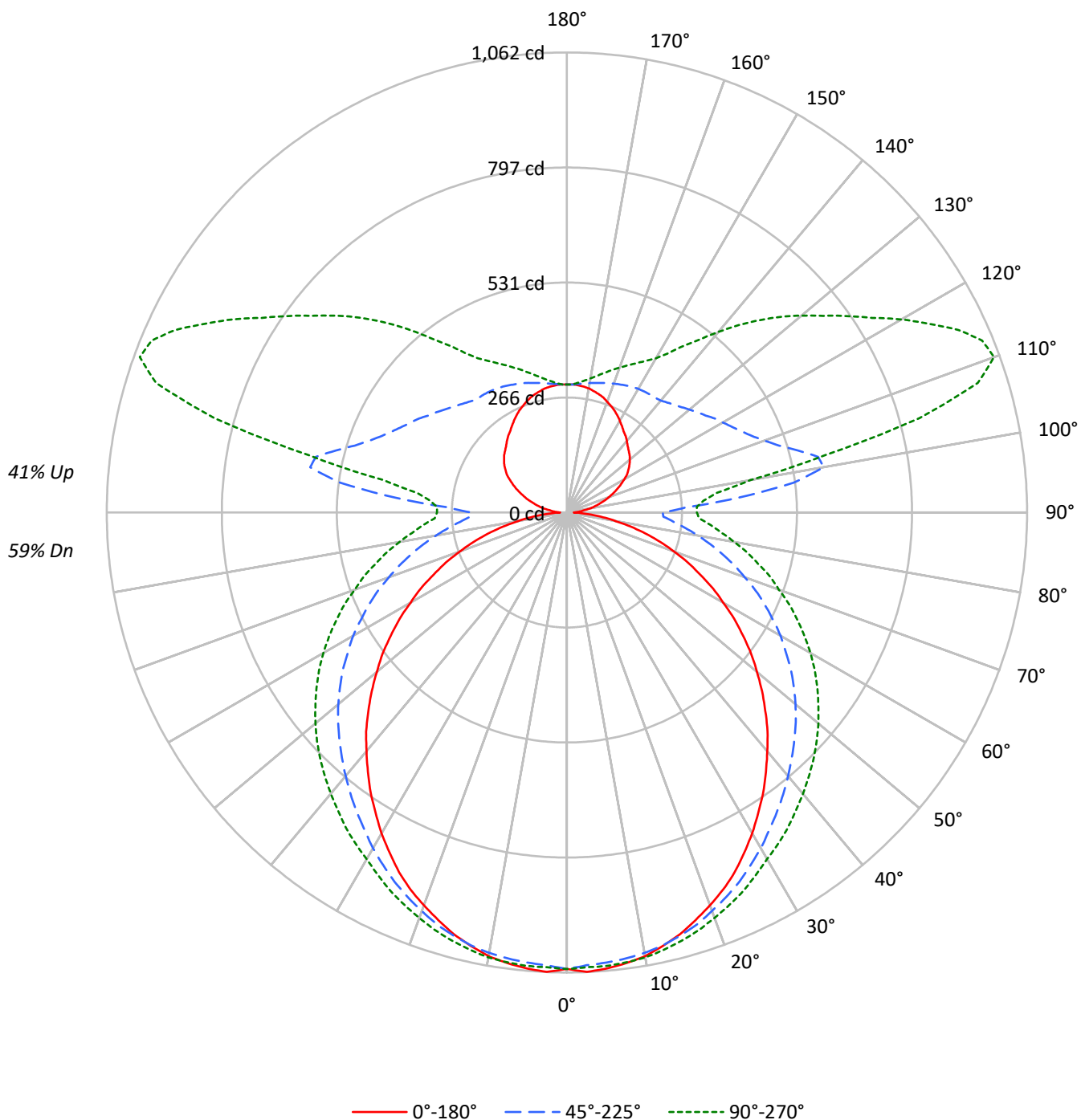
Lumens per Lamp: N/A
Luminaire Lumens: 6083.4 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 76.7
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: P1008663

CATALOG NUMBER: S122DIP-B1005D530UB40-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1008663

CATALOG NUMBER: S122DIP-B1005D530UB40-4F0-XX-W2A-D4

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
RCR																	
0	109	109	109	109	102	102	102	102	88	88	88		76	76	76		64
1	98	93	88	84	91	87	82	79	75	72	69		64	62	59		54
2	89	80	73	67	82	75	69	63	64	60	56		55	52	48		46
3	80	70	62	55	74	65	58	52	56	51	46		48	44	40		41
4	73	61	53	46	68	57	50	44	50	44	39		43	38	34		36
5	67	55	46	39	62	51	43	37	44	38	33		38	33	29		32
6	62	49	40	34	57	46	38	32	40	33	29		34	29	25		29
7	57	44	36	30	53	41	34	28	36	30	25		31	26	22		26
8	53	40	32	26	49	37	30	25	33	27	22		28	23	20		24
9	49	36	29	23	46	34	27	22	30	24	20		26	21	18		22
10	46	33	26	21	43	31	24	20	28	22	18		24	19	16		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16681	16681	16681
5°	16757	15969	15880
10°	16645	15416	15191
15°	16409	14845	14486
20°	16112	14243	13816
25°	15821	13668	13209
30°	15411	13083	12607
35°	14996	12520	12166
40°	14558	12033	11726
45°	14144	11591	11345
50°	13695	11183	10966
55°	13227	10751	10583
60°	12651	10300	10179
65°	12055	9782	9714
70°	11377	9225	9213
75°	10511	8668	8741
80°	9141	8090	8252
85°	7769	7544	7828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14144 cd/sqm

TEST NUMBER: P1008663

CATALOG NUMBER: S122DIP-B1005D530UB40-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.6
10°-20°	286.5	4.7
20°-30°	434.1	7.1
30°-40°	528.7	8.7
40°-50°	568.8	9.3
50°-60°	552.4	9.1
60°-70°	482.4	7.9
70°-80°	371.3	6.1
80°-90°	250.6	4.1
90°-100°	291.4	4.8
100°-110°	530.3	8.7
110°-120°	508.4	8.4
120°-130°	396.2	6.5
130°-140°	300.7	4.9
140°-150°	215.8	3.5
150°-160°	149.4	2.5
160°-170°	88.0	1.4
170°-180°	28.6	0.5
0°-30°	820.6	13.5
0°-40°	1349.2	22.2
0°-60°	2470.4	40.6
0°-90°	3574.6	58.8
90°-120°	1330.1	21.9
90°-150°	2242.7	36.9
90°-180°	2509.0	41.2
0°-180°	6083.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1057	1052	1043	1052	1051	100
15°	1008	1011	1011	1025	1023	284
25°	916	927	941	959	964	421
35°	790	816	845	878	889	494
45°	648	689	742	790	805	500
55°	496	551	631	686	706	444
65°	339	414	504	567	586	337
75°	188	273	371	437	457	199
85°	55	150	247	312	333	58
90°	16	112	221	281	300	12
95°	32	133	398	318	317	30
105°	77	156	552	938	842	82
115°	128	177	444	865	997	127
125°	174	205	391	682	791	155
135°	202	240	352	544	628	156
145°	228	263	333	423	469	144
155°	260	280	323	366	380	120
165°	283	292	310	328	334	80
175°	295	295	298	302	301	28
180°	296	296	296	296	296	

TEST NUMBER: P1008663

CATALOG NUMBER: S122DIP-B1005D530UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.8	1053.8	1053.8	1053.8	1053.8
2.5°	1061.5	1056.9	1046.2	1053.8	1050.8
5°	1056.9	1052.3	1043.1	1052.3	1050.8
7.5°	1049.2	1046.2	1038.5	1049.2	1047.7
10°	1040.1	1037.0	1032.4	1044.7	1043.1
12.5°	1024.8	1026.3	1023.3	1035.5	1034.0
15°	1008.0	1011.1	1011.1	1024.8	1023.3
17.5°	986.6	992.7	997.3	1011.1	1011.1
20°	965.2	972.9	979.0	995.8	995.8
22.5°	942.3	951.5	960.7	977.5	980.5
25°	916.4	927.1	940.8	959.1	963.7
27.5°	885.8	902.6	917.9	940.8	943.9
30°	855.3	875.1	895.0	919.4	924.0
32.5°	821.7	844.6	869.0	898.0	907.2
35°	789.6	815.6	844.6	878.2	888.9
37.5°	754.5	783.5	820.1	856.8	867.5
40°	719.3	752.9	794.2	833.9	847.6
42.5°	685.7	719.3	768.2	812.5	826.3
45°	647.6	688.8	742.3	789.6	804.9
47.5°	610.9	655.2	716.3	765.2	782.0
50°	572.7	620.1	688.8	740.7	757.5
52.5°	536.1	586.5	659.8	713.2	731.6
55°	496.4	551.3	630.8	685.7	705.6
57.5°	458.2	519.3	598.7	658.3	678.1
60°	416.9	482.6	569.7	627.7	649.1
62.5°	380.3	449.0	536.1	598.7	618.5
65°	339.1	413.9	504.0	566.6	586.5
67.5°	302.4	380.3	471.9	534.5	555.9
70°	262.7	342.1	436.8	502.5	520.8
72.5°	226.0	308.5	404.7	468.9	491.8
75°	187.9	273.4	371.1	436.8	456.7
77.5°	151.2	239.8	339.1	404.7	426.1
80°	114.5	207.7	307.0	371.1	392.5
82.5°	84.0	175.6	276.4	340.6	360.4
85°	55.0	149.7	247.4	311.6	332.9
87.5°	33.6	125.2	223.0	285.6	305.5
90°	15.9	111.6	220.9	281.2	299.8
92.5°	22.2	121.7	275.4	287.8	300.4
95°	32.1	132.9	398.4	317.8	316.8
97.5°	40.3	140.9	528.1	390.2	348.4
100°	54.5	146.2	601.7	545.4	429.5
102.5°	66.0	151.6	593.8	765.3	610.5
105°	76.9	156.4	552.4	937.6	842.1
107.5°	90.6	161.4	513.4	992.2	994.2
110°	102.7	166.6	484.9	969.1	1049.0

TEST NUMBER: P1008663

CATALOG NUMBER: S122DIP-B1005D530UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	115.2	172.6	461.7	921.8	1037.2
115°	128.3	177.2	444.0	864.7	997.1
117.5°	140.4	183.4	428.7	811.0	942.8
120°	152.9	189.1	415.6	760.4	891.7
122.5°	164.9	196.8	404.2	719.9	836.0
125°	173.6	204.8	390.6	682.3	790.6
127.5°	182.1	213.8	379.8	647.0	746.0
130°	189.5	223.2	369.5	613.0	707.1
132.5°	196.3	232.2	359.7	578.2	668.5
135°	201.6	240.2	351.5	543.9	627.7
137.5°	207.8	247.0	343.9	509.4	586.5
140°	215.2	251.8	337.3	477.6	544.2
142.5°	222.6	256.9	334.2	448.2	503.4
145°	228.5	262.6	333.0	422.6	469.2
147.5°	236.4	267.1	331.3	400.4	436.3
150°	244.4	271.6	329.6	386.5	410.9
152.5°	252.3	276.2	326.8	376.0	394.4
155°	259.7	280.4	323.4	365.7	380.2
157.5°	266.0	283.9	320.0	356.0	367.7
160°	272.2	287.3	316.6	346.4	355.8
162.5°	278.5	289.8	313.7	337.3	344.4
165°	283.0	291.6	309.7	328.5	333.6
167.5°	287.0	293.2	306.3	320.5	323.4
170°	291.0	294.2	303.5	313.2	314.3
172.5°	293.3	295.0	300.1	306.6	306.9
175°	295.0	295.2	297.8	301.5	300.6
177.5°	296.1	295.5	295.5	297.8	296.1
180°	295.5	295.5	295.5	295.5	295.5

(END OF REPORT)