

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: P1008181

Luminaire Tested: S122DIP-B675D530UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008181
REPORT IS A COMBINATION OF REPORTS P984554 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D530UB2750-4F0-XX-W2A-D_3500K
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

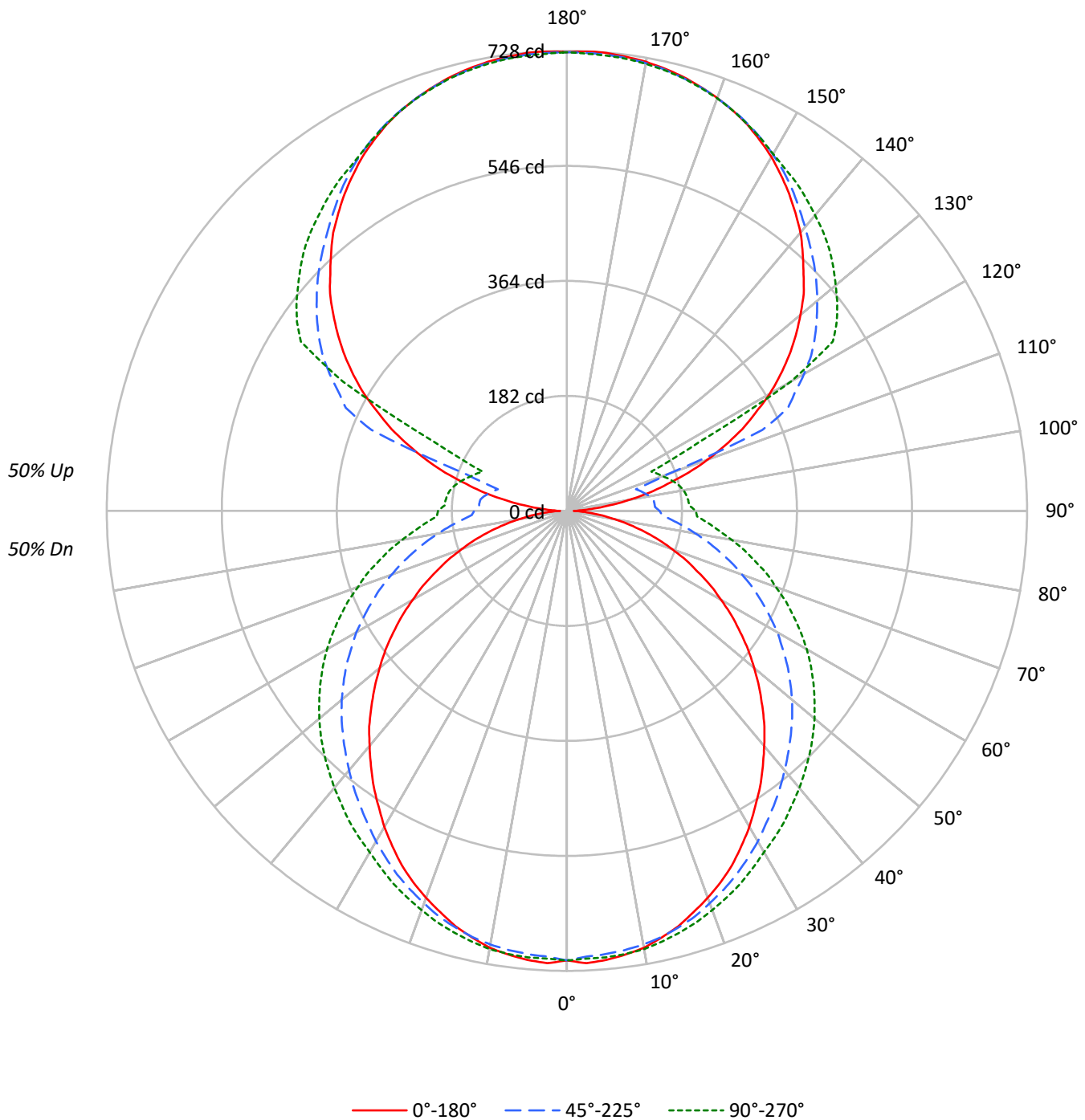
Lumens per Lamp: N/A
Luminaire Lumens: 4843.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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

TEST NUMBER: P1008181

CATALOG NUMBER: S122DIP-B675D530UB2750-4F0-XX-W2A-D_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1008181

CATALOG NUMBER: S122DIP-B675D530UB2750-4F0-XX-W2A-D_3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	56	50
1	96	91	87	83	88	84	80	77	71	68	65	58	56	54	47	46	44	44	44	44	39
2	87	79	72	66	80	73	67	62	61	57	53	50	47	44	41	38	36	36	36	36	31
3	79	69	61	55	72	63	57	51	53	48	44	44	40	37	35	33	30	30	30	30	26
4	72	61	52	46	66	56	48	43	47	41	37	39	35	31	31	28	26	26	26	26	22
5	66	54	45	39	60	50	42	36	42	36	31	35	30	27	28	25	22	22	22	22	19
6	61	48	40	34	56	44	37	31	38	32	27	31	27	23	25	22	19	19	19	19	16
7	56	43	35	29	51	40	33	27	34	28	24	28	24	20	23	20	17	17	17	17	14
8	52	39	31	26	48	36	29	24	31	25	21	26	21	18	21	18	15	15	15	15	13
9	48	36	28	23	44	33	26	21	28	23	19	24	19	16	20	16	14	14	14	14	11
10	45	33	25	20	41	30	24	19	26	21	17	22	18	15	18	15	12	12	12	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11259	11259	11259
5°	11309	10779	10717
10°	11234	10404	10254
15°	11076	10019	9778
20°	10876	9614	9325
25°	10678	9225	8916
30°	10402	8831	8510
35°	10121	8451	8212
40°	9826	8121	7915
45°	9546	7823	7658
50°	9245	7548	7402
55°	8926	7255	7142
60°	8539	6952	6870
65°	8134	6603	6555
70°	7678	6226	6218
75°	7093	5851	5899
80°	6171	5460	5569
85°	5241	5092	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9546 cd/sqm

TEST NUMBER: P1008181

CATALOG NUMBER: S122DIP-B675D530UB2750-4F0-XX-W2A-D_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.4
10°-20°	193.4	4.0
20°-30°	293.0	6.1
30°-40°	356.8	7.4
40°-50°	383.9	7.9
50°-60°	372.8	7.7
60°-70°	325.6	6.7
70°-80°	250.6	5.2
80°-90°	169.1	3.5
90°-100°	139.7	2.9
100°-110°	173.8	3.6
110°-120°	292.4	6.0
120°-130°	423.5	8.7
130°-140°	429.9	8.9
140°-150°	389.6	8.0
150°-160°	311.5	6.4
160°-170°	200.7	4.1
170°-180°	69.1	1.4
0°-30°	553.8	11.4
0°-40°	910.7	18.8
0°-60°	1667.4	34.4
0°-90°	2412.7	49.8
90°-120°	606.0	12.5
90°-150°	1849.0	38.2
90°-180°	2430.0	50.2
0°-180°	4843.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	713	710	704	710	709	68
15°	680	682	682	692	691	192
25°	618	626	635	647	650	284
35°	533	550	570	593	600	333
45°	437	465	501	533	543	337
55°	335	372	426	463	476	300
65°	229	279	340	382	396	227
75°	127	184	250	295	308	134
85°	37	101	167	210	225	39
90°	11	76	147	190	204	9
95°	42	74	139	181	193	47
105°	165	210	121	162	176	176
115°	306	326	386	174	147	301
125°	429	436	479	510	521	383
135°	529	538	553	580	587	409
145°	613	612	621	631	634	384
155°	675	670	676	680	675	311
165°	711	708	710	713	710	201
175°	727	724	725	728	723	69
180°	726	726	726	726	726	

TEST NUMBER: P1008181

CATALOG NUMBER: S122DIP-B675D530UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.3	711.3	711.3	711.3	711.3
2.5°	716.4	713.3	706.1	711.3	709.2
5°	713.3	710.3	704.1	710.3	709.2
7.5°	708.2	706.1	701.0	708.2	707.2
10°	702.0	699.9	696.8	705.1	704.1
12.5°	691.7	692.7	690.7	698.9	697.9
15°	680.4	682.4	682.4	691.7	690.7
17.5°	665.9	670.0	673.1	682.4	682.4
20°	651.5	656.6	660.8	672.1	672.1
22.5°	636.0	642.2	648.4	659.7	661.8
25°	618.5	625.7	635.0	647.4	650.5
27.5°	597.9	609.2	619.5	635.0	637.1
30°	577.3	590.7	604.1	620.6	623.7
32.5°	554.6	570.1	586.5	606.1	612.3
35°	532.9	550.5	570.1	592.7	600.0
37.5°	509.2	528.8	553.6	578.3	585.5
40°	485.5	508.2	536.0	562.8	572.1
42.5°	462.8	485.5	518.5	548.4	557.7
45°	437.1	464.9	501.0	532.9	543.3
47.5°	412.3	442.2	483.5	516.5	527.8
50°	386.6	418.5	464.9	500.0	511.3
52.5°	361.8	395.8	445.3	481.4	493.8
55°	335.0	372.1	425.7	462.8	476.2
57.5°	309.3	350.5	404.1	444.3	457.7
60°	281.4	325.7	384.5	423.7	438.1
62.5°	256.7	303.1	361.8	404.1	417.5
65°	228.8	279.4	340.2	382.4	395.8
67.5°	204.1	256.7	318.5	360.8	375.2
70°	177.3	230.9	294.8	339.1	351.5
72.5°	152.6	208.2	273.2	316.5	331.9
75°	126.8	184.5	250.5	294.8	308.2
77.5°	102.1	161.8	228.8	273.2	287.6
80°	77.3	140.2	207.2	250.5	264.9
82.5°	56.7	118.5	186.6	229.9	243.3
85°	37.1	101.0	167.0	210.3	224.7
87.5°	22.7	84.5	150.5	192.8	206.2
90°	10.8	76.4	146.6	190.4	203.9
92.5°	22.4	74.9	139.4	180.7	193.6
95°	42.3	73.5	139.0	180.8	192.7
97.5°	68.6	69.9	138.1	177.9	190.7
100°	100.2	66.4	133.0	175.3	187.8
102.5°	133.8	166.8	126.9	169.8	182.6
105°	164.8	210.4	120.7	162.5	176.0
107.5°	202.1	240.0	114.5	155.4	168.8
110°	236.7	268.4	167.2	147.6	161.1

TEST NUMBER: P1008181

CATALOG NUMBER: S122DIP-B675D530UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	270.4	296.3	334.8	141.4	154.4
115°	306.1	326.4	385.9	173.7	147.2
117.5°	336.1	354.8	407.0	362.9	235.6
120°	370.7	382.7	433.3	468.5	409.1
122.5°	400.1	409.5	458.2	489.2	499.0
125°	429.1	435.9	478.8	510.3	521.2
127.5°	456.4	462.6	498.4	529.3	539.2
130°	482.1	489.4	516.9	547.4	555.1
132.5°	508.4	514.1	535.4	563.8	571.5
135°	529.3	537.7	552.7	579.7	586.8
137.5°	552.4	558.7	569.2	594.0	599.7
140°	575.0	578.2	586.1	607.3	610.8
142.5°	593.9	596.6	603.4	620.0	622.5
145°	612.9	612.3	621.3	631.1	633.6
147.5°	630.2	628.6	637.5	641.2	642.2
150°	647.0	643.3	651.7	654.9	652.3
152.5°	661.2	657.0	664.9	668.0	664.3
155°	674.8	670.1	676.4	679.6	675.4
157.5°	685.9	681.7	686.4	690.1	685.9
160°	695.3	692.2	695.3	698.5	694.8
162.5°	703.7	700.6	703.2	706.9	702.1
165°	711.1	707.9	709.5	713.2	709.5
167.5°	716.8	713.7	715.3	718.9	714.2
170°	721.6	718.4	719.5	723.2	718.4
172.5°	724.7	721.6	722.6	726.3	721.6
175°	727.4	723.7	724.7	728.4	723.2
177.5°	728.4	724.7	725.3	728.9	724.2
180°	725.8	725.8	725.8	725.8	725.8

(END OF REPORT)