

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: P1007956

Luminaire Tested: S122DIP-B1005D530UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007956
REPORT IS A COMBINATION OF REPORTS P983654 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D530UB2750-4F0-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

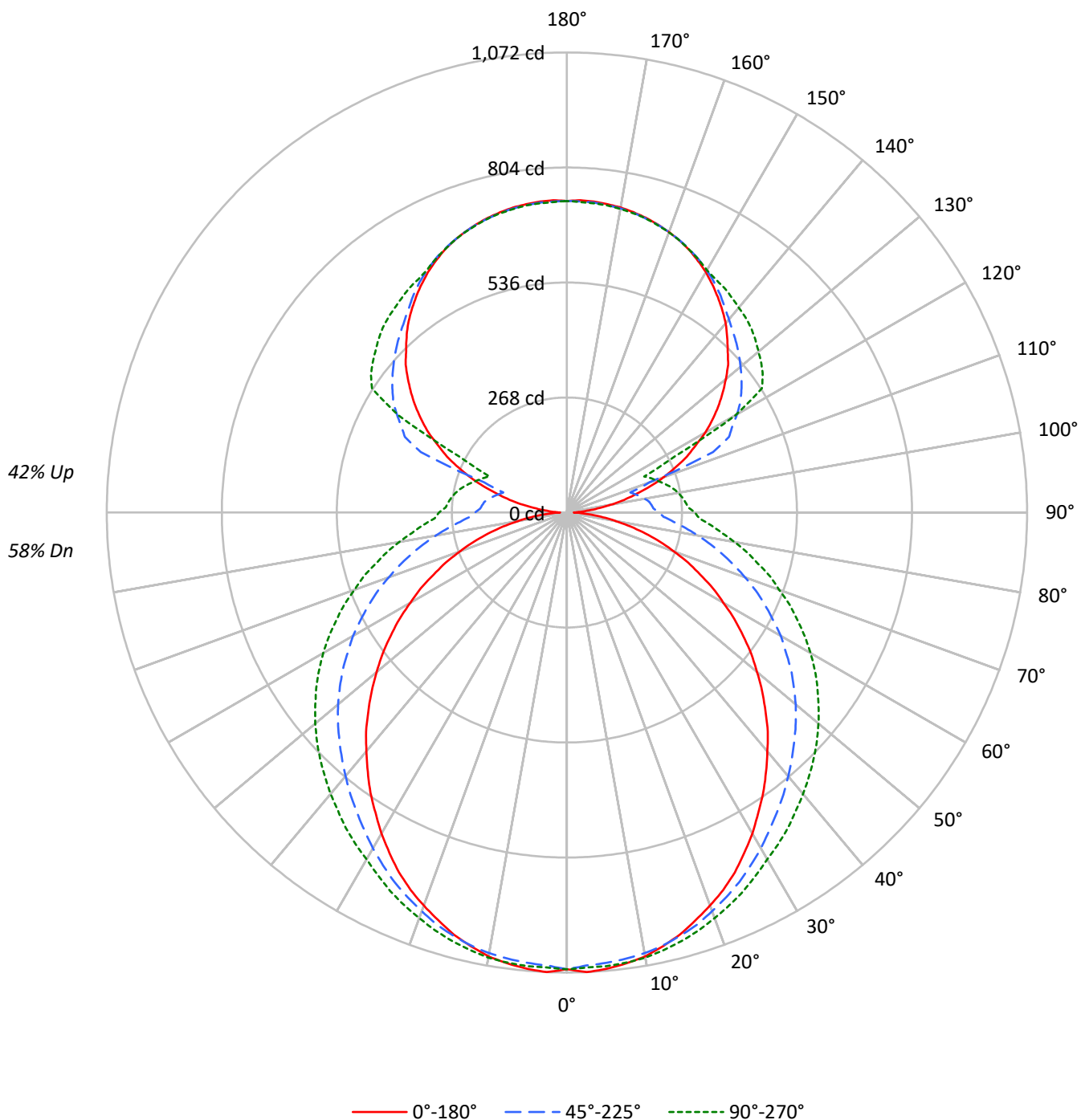
Lumens per Lamp: N/A
Luminaire Lumens: 6190.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1007956

CATALOG NUMBER: S122DIP-B1005D530UB2750-4F0-XX-W2A-D_3500K

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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	98	93	88	84	91	86	82	79	75	71	69	64	61	59	54	52	50
2	88	80	73	67	82	75	68	63	64	60	55	55	51	48	46	43	41
3	80	70	62	55	74	65	58	52	56	51	46	48	44	40	40	37	34
4	73	61	53	46	68	57	50	44	50	43	39	42	38	34	36	32	29
5	67	55	46	39	62	51	43	37	44	38	33	38	33	29	32	28	25
6	62	49	40	34	57	46	38	32	40	33	29	34	29	25	29	25	22
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17
9	49	36	29	23	46	34	27	22	30	24	20	26	21	18	22	18	15
10	46	33	26	21	43	31	24	20	28	22	18	24	19	16	21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16847	16847	16847
5°	16924	16128	16037
10°	16809	15569	15342
15°	16572	14992	14631
20°	16273	14385	13954
25°	15978	13805	13340
30°	15564	13214	12733
35°	15146	12644	12286
40°	14704	12153	11844
45°	14283	11705	11458
50°	13832	11295	11076
55°	13358	10856	10688
60°	12778	10401	10279
65°	12172	9879	9810
70°	11489	9316	9305
75°	10612	8755	8828
80°	9237	8169	8334
85°	7840	7620	7908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14283 cd/sqm

TEST NUMBER: P1007956

CATALOG NUMBER: S122DIP-B1005D530UB2750-4F0-XX-W2A-D_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.6
10°-20°	289.4	4.7
20°-30°	438.5	7.1
30°-40°	533.9	8.6
40°-50°	574.5	9.3
50°-60°	557.9	9.0
60°-70°	487.2	7.9
70°-80°	375.0	6.1
80°-90°	252.4	4.1
90°-100°	197.2	3.2
100°-110°	215.7	3.5
110°-120°	320.2	5.2
120°-130°	439.0	7.1
130°-140°	436.4	7.1
140°-150°	390.7	6.3
150°-160°	311.5	5.0
160°-170°	200.7	3.2
170°-180°	69.1	1.1
0°-30°	828.7	13.4
0°-40°	1362.6	22.0
0°-60°	2495.0	40.3
0°-90°	3609.6	58.3
90°-120°	733.1	11.8
90°-150°	1999.2	32.3
90°-180°	2580.0	41.7
0°-180°	6190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1067	1063	1054	1063	1061	101
15°	1018	1021	1021	1035	1034	287
25°	926	936	950	969	973	426
35°	798	824	853	887	898	498
45°	654	696	750	798	813	505
55°	501	557	637	693	713	448
65°	342	418	509	572	592	340
75°	190	276	375	441	461	201
85°	56	151	250	315	336	59
90°	16	111	214	278	298	13
95°	46	102	198	259	277	50
105°	167	228	165	224	244	179
115°	308	334	416	220	199	303
125°	430	437	496	542	557	384
135°	530	538	558	596	607	410
145°	613	612	621	634	639	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: P1007956

CATALOG NUMBER: S122DIP-B1005D530UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.3	1064.3	1064.3	1064.3	1064.3
2.5°	1072.0	1067.4	1056.6	1064.3	1061.2
5°	1067.4	1062.8	1053.5	1062.8	1061.2
7.5°	1059.7	1056.6	1048.9	1059.7	1058.1
10°	1050.4	1047.3	1042.7	1055.0	1053.5
12.5°	1035.0	1036.5	1033.5	1045.8	1044.2
15°	1018.0	1021.1	1021.1	1035.0	1033.5
17.5°	996.4	1002.6	1007.2	1021.1	1021.1
20°	974.8	982.6	988.7	1005.7	1005.7
22.5°	951.7	961.0	970.2	987.2	990.3
25°	925.5	936.3	950.2	968.7	973.3
27.5°	894.6	911.6	927.0	950.2	953.2
30°	863.8	883.8	903.9	928.6	933.2
32.5°	829.8	853.0	877.7	907.0	916.2
35°	797.5	823.7	853.0	886.9	897.7
37.5°	762.0	791.3	828.3	865.3	876.1
40°	726.5	760.4	802.1	842.2	856.1
42.5°	692.6	726.5	775.9	820.6	834.5
45°	654.0	695.7	749.6	797.5	812.9
47.5°	617.0	661.7	723.4	772.8	789.7
50°	578.4	626.2	695.7	748.1	765.1
52.5°	541.4	592.3	666.3	720.3	738.8
55°	501.3	556.8	637.0	692.6	712.6
57.5°	462.7	524.4	604.6	664.8	684.9
60°	421.1	487.4	575.3	634.0	655.5
62.5°	384.1	453.5	541.4	604.6	624.7
65°	342.4	418.0	509.0	572.3	592.3
67.5°	305.4	384.1	476.6	539.9	561.5
70°	265.3	345.5	441.1	507.5	526.0
72.5°	228.3	311.6	408.8	473.5	496.7
75°	189.7	276.1	374.8	441.1	461.2
77.5°	152.7	242.2	342.4	408.8	430.3
80°	115.7	209.8	310.0	374.8	396.4
82.5°	84.8	177.4	279.2	344.0	364.0
85°	55.5	151.2	249.9	314.7	336.3
87.5°	33.9	126.5	225.2	288.4	308.5
90°	15.9	111.2	214.1	278.4	298.0
92.5°	27.0	106.6	202.3	263.6	282.6
95°	46.4	101.6	197.9	259.1	277.1
97.5°	72.2	95.5	193.4	252.1	271.1
100°	103.8	88.9	184.1	245.4	263.5
102.5°	136.9	186.8	174.4	235.8	254.2
105°	167.3	227.8	164.7	224.4	243.5
107.5°	204.6	254.8	155.0	213.2	232.3
110°	238.8	280.7	204.5	201.4	220.4



TEST NUMBER: P1007956

CATALOG NUMBER: S122DIP-B1005D530UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	272.5	306.5	368.6	191.6	210.1
115°	308.2	334.0	416.5	219.7	198.9
117.5°	337.6	360.5	434.2	405.3	283.1
120°	372.2	386.3	457.4	506.9	453.1
122.5°	401.6	411.6	479.1	524.0	538.4
125°	430.1	436.9	496.2	541.5	557.0
127.5°	457.4	463.1	512.7	556.5	570.9
130°	483.1	489.9	528.1	571.0	582.7
132.5°	509.4	514.6	543.6	583.8	595.6
135°	529.8	538.2	558.4	596.1	607.3
137.5°	552.9	559.2	572.3	606.8	616.1
140°	575.5	578.2	587.1	616.5	623.1
142.5°	594.4	596.6	603.4	626.1	631.2
145°	612.9	612.3	621.3	634.2	639.3
147.5°	630.2	628.6	637.5	641.7	644.3
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)