

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: P1008654

Luminaire Tested: S122DIP-B1005D530UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008654
REPORT IS A COMBINATION OF REPORTS P983676 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D530UB35-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

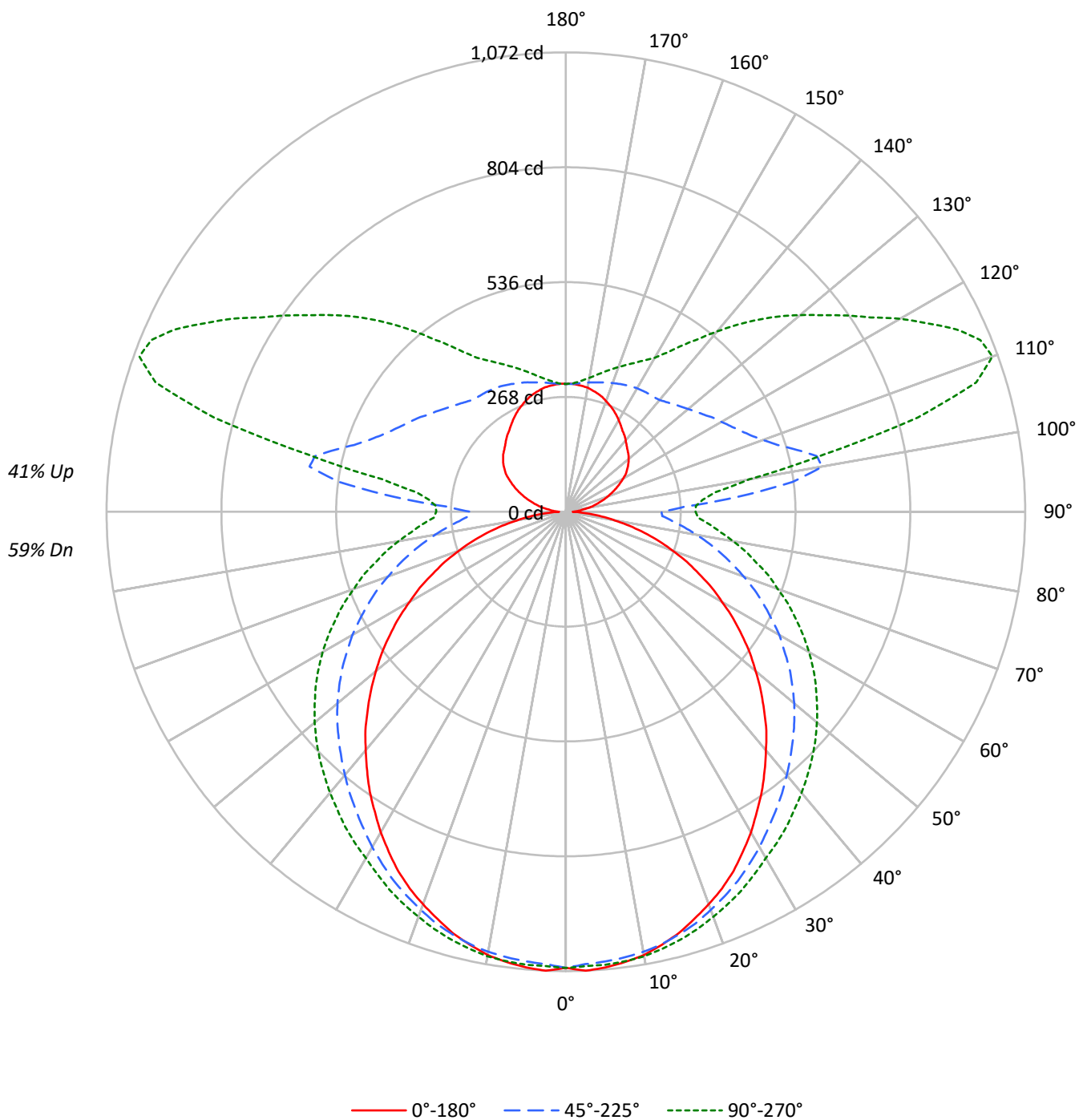
Lumens per Lamp: N/A
Luminaire Lumens: 6143.4 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1008654

CATALOG NUMBER: S122DIP-B1005D530UB35-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1008654

CATALOG NUMBER: S122DIP-B1005D530UB35-4F0-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	30	10
RCR																	
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64
1	98	93	88	84	91	87	82	79	75	72	69	64	62	60	54	52	51
2	89	80	73	67	82	75	69	63	65	60	56	55	52	48	46	44	41
3	80	70	62	55	74	65	58	52	56	51	46	48	44	40	41	37	34
4	73	61	53	46	68	57	50	44	50	44	39	43	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	16
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: P1008654

CATALOG NUMBER: S122DIP-B1005D530UB35-4F0-XX-W2A-D4

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	8.7
40°-50°	574.5	9.4
50°-60°	557.9	9.1
60°-70°	487.2	7.9
70°-80°	375.0	6.1
80°-90°	253.1	4.1
90°-100°	294.2	4.8
100°-110°	535.5	8.7
110°-120°	513.4	8.4
120°-130°	400.0	6.5
130°-140°	303.6	4.9
140°-150°	217.9	3.5
150°-160°	150.9	2.5
160°-170°	88.8	1.4
170°-180°	28.9	0.5
0°-30°	828.7	13.5
0°-40°	1362.6	22.2
0°-60°	2495.0	40.6
0°-90°	3610.2	58.8
90°-120°	1343.1	21.9
90°-150°	2264.6	36.9
90°-180°	2533.0	41.2
0°-180°	6143.4	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	113	223	284	303	12
95°	32	134	402	321	320	30
105°	78	158	558	947	850	83
115°	130	179	448	873	1007	128
125°	175	207	394	689	798	156
135°	204	243	355	549	634	158
145°	231	265	336	427	474	145
155°	262	283	326	369	384	121
165°	286	294	313	332	337	81
175°	298	298	301	304	304	28
180°	298	298	298	298	298	

TEST NUMBER: P1008654

CATALOG NUMBER: S122DIP-B1005D530UB35-4F0-XX-W2A-D4

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°	16.0	112.6	223.1	284.0	302.7
92.5°	22.5	122.8	278.1	290.6	303.4
95°	32.4	134.2	402.3	320.9	319.9
97.5°	40.6	142.2	533.3	394.1	351.8
100°	55.0	147.6	607.5	550.8	433.7
102.5°	66.7	153.2	599.6	772.9	616.4
105°	77.7	158.0	557.9	946.6	850.3
107.5°	91.5	162.9	518.4	1001.8	1003.9
110°	103.8	168.1	489.6	978.6	1059.2

TEST NUMBER: P1008654

CATALOG NUMBER: S122DIP-B1005D530UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	116.4	174.3	466.2	930.8	1047.2
115°	129.6	178.9	448.3	873.0	1006.8
117.5°	141.8	185.1	433.0	818.9	952.0
120°	154.4	191.0	419.7	767.9	900.5
122.5°	166.4	198.7	408.1	726.9	844.1
125°	175.3	206.8	394.4	688.9	798.3
127.5°	183.9	215.8	383.5	653.3	753.2
130°	191.3	225.3	373.0	619.0	714.0
132.5°	198.2	234.4	363.3	583.8	675.0
135°	203.5	242.6	355.0	549.2	633.8
137.5°	209.8	249.4	347.3	514.4	592.3
140°	217.3	254.2	340.5	482.3	549.4
142.5°	224.7	259.4	337.4	452.6	508.2
145°	230.7	265.1	336.3	426.8	473.8
147.5°	238.7	269.7	334.6	404.4	440.6
150°	246.8	274.3	332.8	390.2	414.9
152.5°	254.8	278.9	330.0	379.6	398.3
155°	262.2	283.2	326.5	369.2	383.9
157.5°	268.6	286.6	323.1	359.5	371.3
160°	274.9	290.0	319.6	349.8	359.2
162.5°	281.2	292.7	316.8	340.6	347.8
165°	285.8	294.4	312.7	331.6	336.9
167.5°	289.8	296.2	309.3	323.6	326.5
170°	293.8	297.0	306.4	316.2	317.3
172.5°	296.1	297.8	303.0	309.6	309.9
175°	297.8	298.1	300.7	304.4	303.6
177.5°	299.0	298.4	298.4	300.7	299.0
180°	298.4	298.4	298.4	298.4	298.4

(END OF REPORT)