

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: P1008744

Luminaire Tested: S122DIP-B1005D925UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008744
REPORT IS A COMBINATION OF REPORTS P983796 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D925UB35-4F0-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

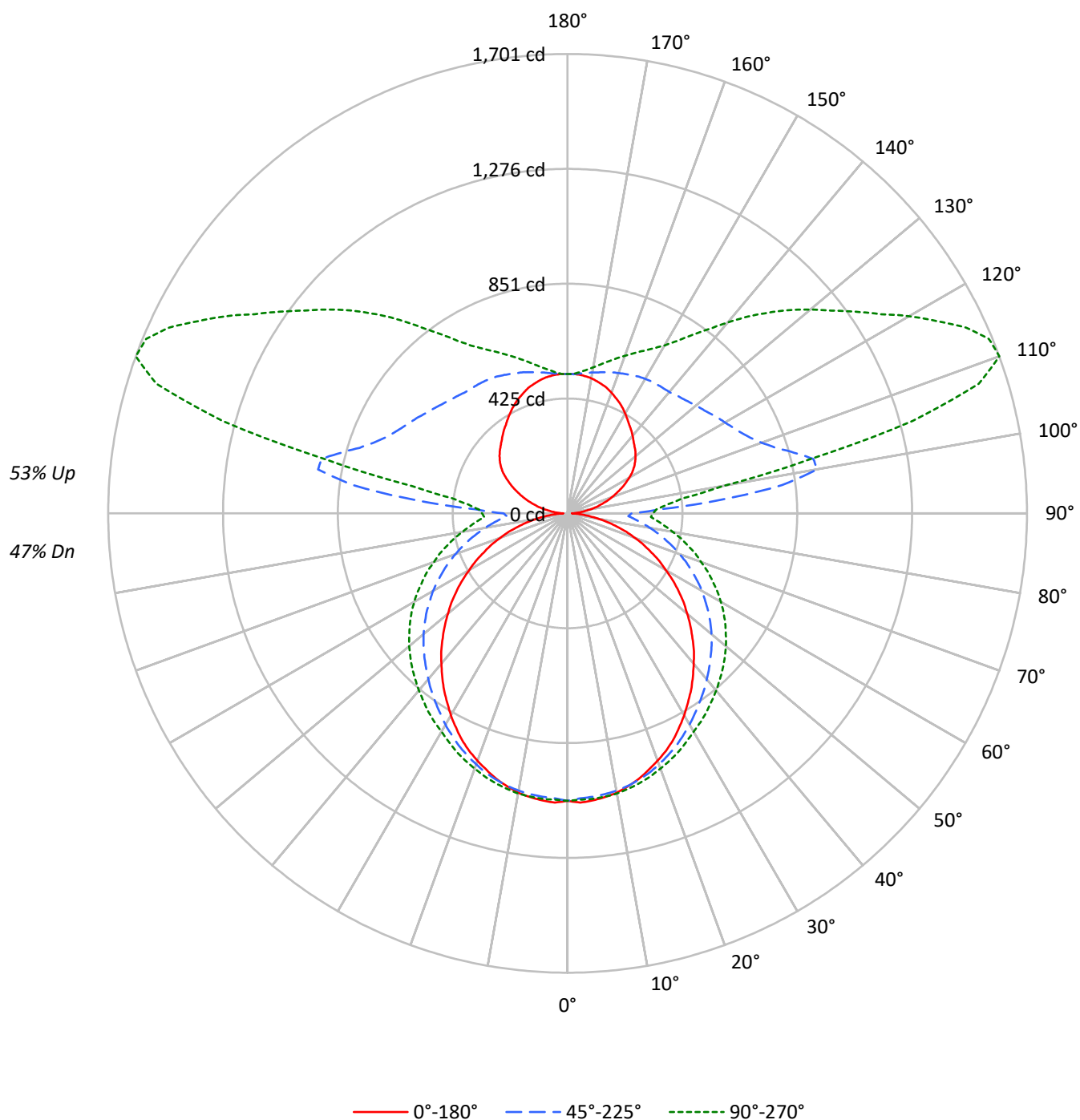
Lumens per Lamp: N/A
Luminaire Lumens: 7662.2 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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: P1008744

CATALOG NUMBER: S122DIP-B1005D925UB35-4F0-XX-W2A-D4

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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53
1	96	91	86	82	88	83	80	76	70	67	64	57	55	53	45	44	42
2	87	78	72	66	79	72	66	61	60	56	52	49	46	43	39	37	35
3	79	69	61	54	72	63	56	51	53	47	43	43	39	36	34	31	29
4	72	60	52	46	65	55	48	42	46	41	36	38	34	30	30	27	24
5	66	54	45	39	60	49	42	36	41	35	31	34	29	26	27	24	21
6	60	48	39	33	55	44	37	31	37	31	27	30	26	23	24	21	18
7	56	43	35	29	51	40	32	27	33	28	23	28	23	20	22	19	16
8	52	39	31	26	47	36	29	24	30	25	21	25	21	18	20	17	14
9	48	36	28	23	44	33	26	21	28	22	18	23	19	16	19	15	13
10	45	32	25	20	41	30	23	19	26	20	17	21	17	14	17	14	12

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: P1008744

CATALOG NUMBER: S122DIP-B1005D925UB35-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.3
10°-20°	289.4	3.8
20°-30°	438.5	5.7
30°-40°	533.9	7.0
40°-50°	574.5	7.5
50°-60°	557.9	7.3
60°-70°	487.2	6.4
70°-80°	375.0	4.9
80°-90°	254.4	3.3
90°-100°	382.4	5.0
100°-110°	833.8	10.9
110°-120°	826.9	10.8
120°-130°	657.8	8.6
130°-140°	510.8	6.7
140°-150°	374.4	4.9
150°-160°	260.9	3.4
160°-170°	153.6	2.0
170°-180°	50.0	0.7
0°-30°	828.7	10.8
0°-40°	1362.6	17.8
0°-60°	2495.0	32.6
0°-90°	3611.6	47.1
90°-120°	2043.1	26.7
90°-150°	3586.1	46.8
90°-180°	4051.0	52.9
0°-180°	7662.2	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	118	237	298	316	13
95°	47	170	566	383	368	46
105°	129	235	868	1501	1322	137
115°	220	292	708	1409	1628	217
125°	301	355	644	1123	1302	268
135°	351	418	602	914	1051	271
145°	399	458	582	731	807	251
155°	454	490	565	639	664	209
165°	494	509	541	574	582	139
175°	515	516	520	526	525	49
180°	516	516	516	516	516	

TEST NUMBER: P1008744

CATALOG NUMBER: S122DIP-B1005D925UB35-4F0-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°	16.4	118.3	237.3	297.6	316.5
92.5°	28.8	142.8	342.5	320.4	328.9
95°	47.0	170.1	566.4	382.9	367.6
97.5°	62.4	189.7	800.7	518.4	431.7
100°	87.2	205.8	938.2	798.3	583.6
102.5°	108.5	221.0	932.3	1191.4	908.6
105°	128.8	235.0	868.1	1501.0	1322.0
107.5°	152.6	249.1	807.6	1605.4	1596.5
110°	174.9	263.8	764.6	1574.2	1701.2

TEST NUMBER: P1008744

CATALOG NUMBER: S122DIP-B1005D925UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	196.7	278.9	732.0	1499.4	1688.4
115°	219.6	292.5	707.8	1408.6	1627.5
117.5°	241.8	307.8	689.1	1322.8	1541.7
120°	263.6	322.4	672.9	1243.6	1460.5
122.5°	284.4	339.2	659.6	1180.6	1373.2
125°	300.8	355.4	643.9	1122.7	1301.8
127.5°	315.7	372.2	631.7	1070.2	1232.9
130°	328.6	388.5	620.4	1018.8	1173.9
132.5°	340.5	404.4	610.2	965.8	1114.5
135°	350.8	418.3	601.5	913.8	1051.1
137.5°	361.7	430.2	593.8	861.3	988.2
140°	374.6	439.6	586.6	813.8	923.2
142.5°	387.5	448.6	583.5	769.2	859.8
145°	398.9	458.5	581.5	731.2	806.9
147.5°	412.8	466.4	578.6	698.2	757.4
150°	426.7	474.4	575.6	674.8	717.5
152.5°	440.6	482.3	570.6	656.4	688.7
155°	453.5	489.8	564.7	638.6	663.9
157.5°	464.4	495.6	558.7	621.8	642.1
160°	475.3	501.6	552.8	604.8	621.2
162.5°	486.3	506.1	547.8	589.0	601.4
165°	494.2	509.1	540.8	573.6	582.5
167.5°	501.1	512.1	534.9	559.7	564.7
170°	508.1	513.6	529.9	546.8	548.8
172.5°	512.1	515.0	524.0	535.4	535.9
175°	515.0	515.5	520.0	526.5	525.0
177.5°	517.0	516.0	516.0	520.0	517.0
180°	516.0	516.0	516.0	516.0	516.0

(END OF REPORT)