

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: P1008688

Luminaire Tested: S122DIP-B1005D725UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008688
REPORT IS A COMBINATION OF REPORTS P983725 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D725UB30-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

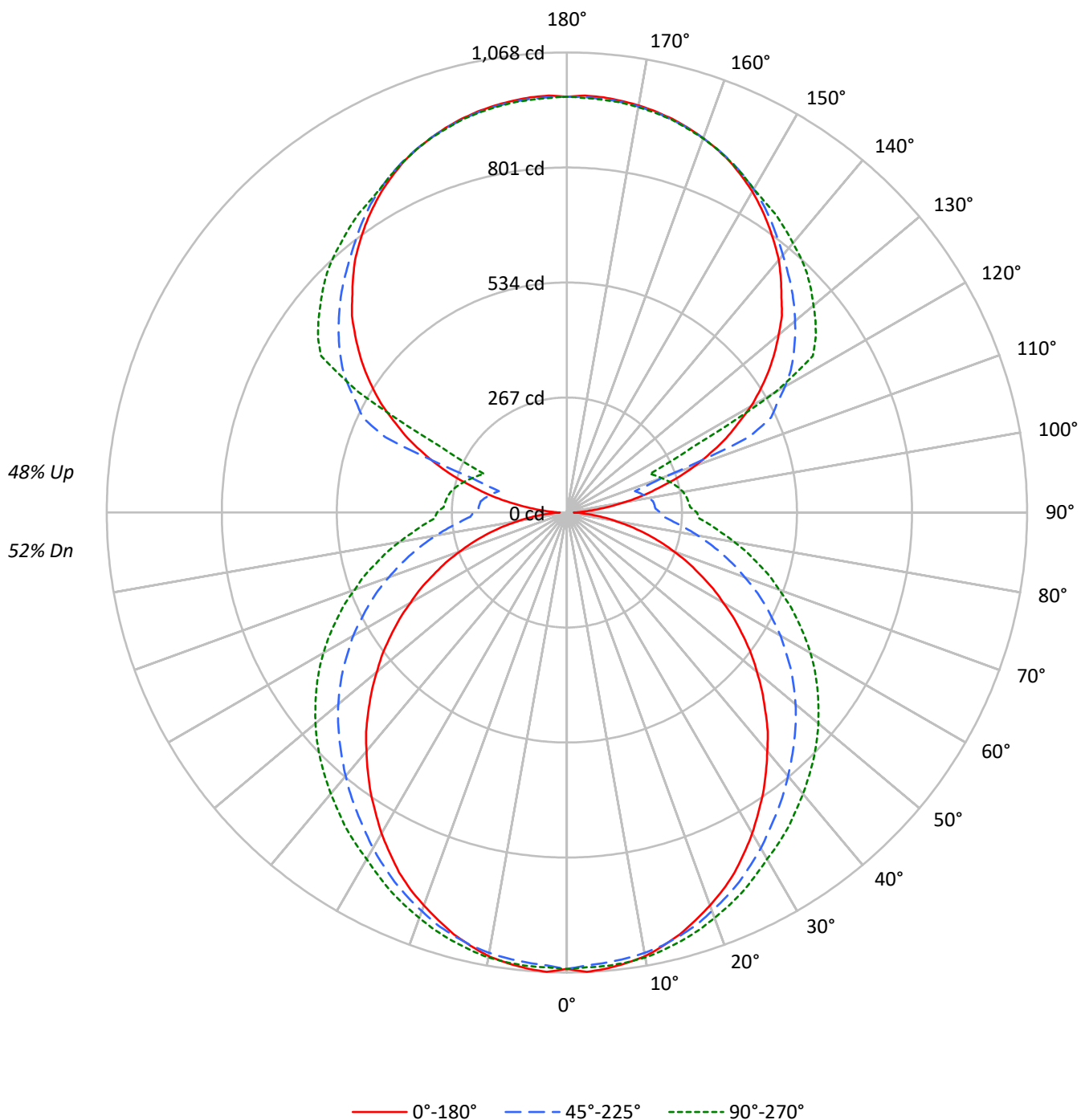
Lumens per Lamp: N/A
Luminaire Lumens: 6876.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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: P1008688

CATALOG NUMBER: S122DIP-B1005D725UB30-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1008688

CATALOG NUMBER: S122DIP-B1005D725UB30-4F0-XX-W2A-D

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	108	108	108	108	100	100	100	100	85	85	85		71	71	71		58
1	97	92	87	83	89	85	81	77	72	69	66		60	58	56		49
2	87	79	72	67	80	73	67	62	62	58	54		52	48	45		42
3	79	69	61	55	73	64	57	51	54	49	44		45	41	38		37
4	72	61	52	46	66	56	49	43	48	42	37		40	36	32		33
5	66	54	45	39	61	50	42	37	43	37	32		36	31	27		29
6	61	48	40	34	56	45	37	32	38	32	28		32	27	24		26
7	56	43	35	29	52	40	33	28	35	29	24		29	24	21		24
8	52	39	31	26	48	37	29	24	31	26	21		27	22	19		22
9	49	36	28	23	45	33	26	22	29	23	19		24	20	17		20
10	45	33	25	20	42	31	24	19	27	21	17		23	18	15		19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16776	16776	16776
5°	16852	16061	15970
10°	16739	15504	15278
15°	16503	14928	14568
20°	16206	14325	13895
25°	15911	13746	13284
30°	15499	13158	12680
35°	15081	12591	12236
40°	14643	12101	11794
45°	14224	11657	11410
50°	13774	11247	11030
55°	13302	10812	10643
60°	12723	10358	10237
65°	12122	9838	9768
70°	11442	9278	9266
75°	10567	8720	8791
80°	9197	8135	8300
85°	7811	7586	7873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14224 cd/sqm

TEST NUMBER: P1008688

CATALOG NUMBER: S122DIP-B1005D725UB30-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	1.5
10°-20°	288.2	4.2
20°-30°	436.6	6.3
30°-40°	531.7	7.7
40°-50°	572.0	8.3
50°-60°	555.5	8.1
60°-70°	485.2	7.1
70°-80°	373.4	5.4
80°-90°	251.8	3.7
90°-100°	204.4	3.0
100°-110°	244.7	3.6
110°-120°	397.9	5.8
120°-130°	568.4	8.3
130°-140°	574.0	8.3
140°-150°	518.6	7.5
150°-160°	414.3	6.0
160°-170°	267.0	3.9
170°-180°	91.9	1.3
0°-30°	825.2	12.0
0°-40°	1356.9	19.7
0°-60°	2484.5	36.1
0°-90°	3594.9	52.3
90°-120°	847.0	12.3
90°-150°	2507.9	36.5
90°-180°	3281.0	47.7
0°-180°	6876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1063	1058	1049	1058	1057	101
15°	1014	1017	1017	1031	1029	286
25°	922	932	946	965	969	424
35°	794	820	849	883	894	496
45°	651	693	746	794	810	503
55°	499	554	634	690	710	447
65°	341	416	507	570	590	339
75°	189	275	373	439	459	200
85°	55	150	249	313	335	58
90°	16	113	217	282	302	13
95°	58	107	204	266	283	63
105°	220	286	175	236	256	236
115°	408	437	523	246	212	401
125°	571	580	642	689	705	510
135°	704	715	737	776	787	545
145°	815	814	826	840	845	510
155°	898	891	900	904	898	414
165°	946	942	944	949	944	267
175°	968	963	964	969	962	92
180°	965	965	965	965	965	

TEST NUMBER: P1008688

CATALOG NUMBER: S122DIP-B1005D725UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.8	1059.8	1059.8	1059.8	1059.8
2.5°	1067.5	1062.9	1052.2	1059.8	1056.8
5°	1062.9	1058.3	1049.1	1058.3	1056.8
7.5°	1055.2	1052.2	1044.5	1055.2	1053.7
10°	1046.0	1042.9	1038.3	1050.6	1049.1
12.5°	1030.7	1032.2	1029.1	1041.4	1039.9
15°	1013.8	1016.8	1016.8	1030.7	1029.1
17.5°	992.3	998.4	1003.0	1016.8	1016.8
20°	970.8	978.4	984.6	1001.5	1001.5
22.5°	947.7	956.9	966.1	983.0	986.1
25°	921.6	932.4	946.2	964.6	969.2
27.5°	890.9	907.8	923.1	946.2	949.3
30°	860.2	880.1	900.1	924.7	929.3
32.5°	826.4	849.4	874.0	903.2	912.4
35°	794.1	820.2	849.4	883.2	894.0
37.5°	758.8	788.0	824.8	861.7	872.5
40°	723.5	757.3	798.7	838.7	852.5
42.5°	689.7	723.5	772.6	817.2	831.0
45°	651.3	692.7	746.5	794.1	809.5
47.5°	614.4	658.9	720.4	769.5	786.4
50°	576.0	623.6	692.7	745.0	761.9
52.5°	539.1	589.8	663.6	717.3	735.7
55°	499.2	554.5	634.4	689.7	709.6
57.5°	460.8	522.2	602.1	662.0	682.0
60°	419.3	485.4	572.9	631.3	652.8
62.5°	382.5	451.6	539.1	602.1	622.1
65°	341.0	416.3	506.9	569.9	589.8
67.5°	304.1	382.5	474.6	537.6	559.1
70°	264.2	344.1	439.3	505.3	523.8
72.5°	227.3	310.3	407.0	471.6	494.6
75°	188.9	274.9	373.3	439.3	459.3
77.5°	152.1	241.2	341.0	407.0	428.5
80°	115.2	208.9	308.7	373.3	394.8
82.5°	84.5	176.6	278.0	342.5	362.5
85°	55.3	150.5	248.8	313.3	334.8
87.5°	33.8	126.0	224.3	287.2	307.2
90°	16.1	112.8	216.8	281.7	301.5
92.5°	31.3	109.9	205.7	267.0	286.2
95°	57.7	106.9	203.8	265.7	283.4
97.5°	92.5	101.3	201.5	260.4	279.6
100°	134.4	95.5	193.4	255.8	274.1
102.5°	179.0	228.3	184.0	247.0	266.0
105°	220.1	285.5	174.7	236.2	255.9
107.5°	269.7	323.9	165.3	225.3	245.0
110°	315.6	361.0	234.4	213.7	233.4

TEST NUMBER: P1008688

CATALOG NUMBER: S122DIP-B1005D725UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	360.3	397.5	456.3	204.3	223.3
115°	407.8	436.6	523.2	245.8	212.4
117.5°	447.5	473.8	550.1	496.3	328.6
120°	493.6	510.3	584.3	635.6	558.2
122.5°	532.7	545.4	616.3	661.9	676.5
125°	571.0	580.1	642.5	688.9	704.8
127.5°	607.4	615.5	667.5	712.9	727.4
130°	641.6	651.2	691.2	735.7	747.2
132.5°	676.5	684.0	714.8	756.4	768.0
135°	704.3	715.4	737.1	776.4	787.2
137.5°	735.0	743.4	758.1	794.3	803.0
140°	765.0	769.1	779.9	810.7	816.5
142.5°	790.2	793.6	802.7	826.7	830.9
145°	815.2	814.5	826.4	840.5	844.7
147.5°	838.3	836.2	848.1	853.1	854.9
150°	860.6	855.8	866.9	871.1	867.6
152.5°	879.5	873.9	884.4	888.6	883.7
155°	897.7	891.4	899.8	904.0	898.4
157.5°	912.3	906.7	913.0	917.9	912.3
160°	924.9	920.7	924.9	929.1	924.2
162.5°	936.1	931.9	935.4	940.3	934.0
165°	945.9	941.7	943.8	948.7	943.8
167.5°	953.6	949.4	951.5	956.3	950.1
170°	959.8	955.6	957.0	961.9	955.6
172.5°	964.0	959.8	961.2	966.1	959.8
175°	967.5	962.6	964.0	968.9	961.9
177.5°	968.9	964.0	964.7	969.6	963.3
180°	965.4	965.4	965.4	965.4	965.4

(END OF REPORT)