

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: P1008689

Luminaire Tested: S122DIP-B1005D725UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008689
REPORT IS A COMBINATION OF REPORTS P983726 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-D1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

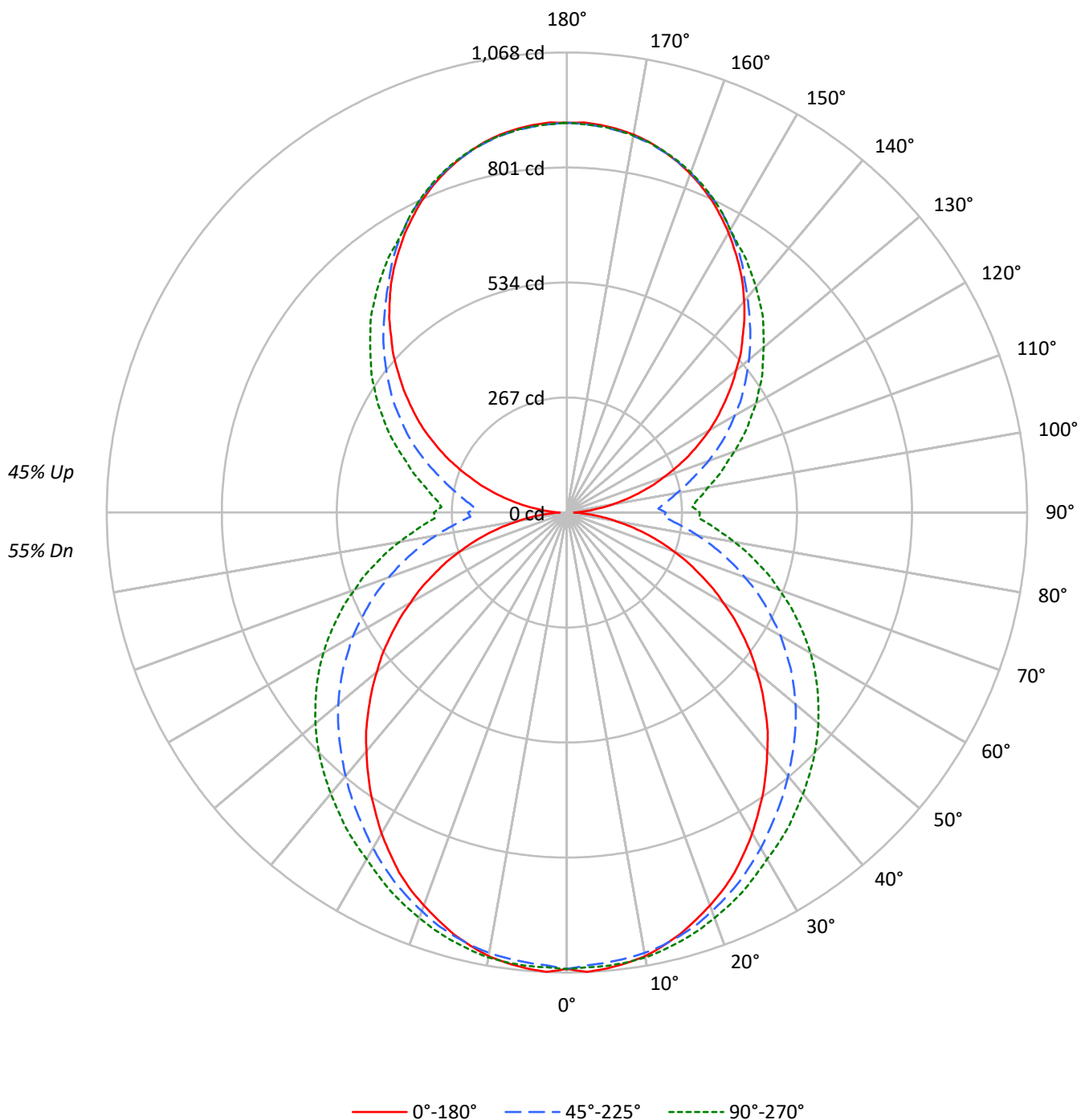
Lumens per Lamp: N/A
Luminaire Lumens: 6576.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1008689

CATALOG NUMBER: S122DIP-B1005D725UB30-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1008689

CATALOG NUMBER: S122DIP-B1005D725UB30-4F0-XX-W2A-D1

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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	97	92	88	83	90	85	81	78	73	70	67	61	59	57	51	49	48
2	88	80	73	67	81	74	68	63	63	58	54	53	50	46	44	41	39
3	80	69	61	55	73	64	57	52	55	49	45	46	42	39	38	35	32
4	73	61	53	46	67	57	49	43	49	43	38	41	36	33	34	30	28
5	67	54	46	39	61	50	43	37	43	37	32	37	32	28	30	27	24
6	61	48	40	34	56	45	37	32	39	33	28	33	28	24	27	24	21
7	57	44	35	29	52	41	33	28	35	29	25	30	25	21	25	21	18
8	52	40	31	26	48	37	30	25	32	26	22	27	22	19	23	19	16
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	15
10	46	33	26	21	42	31	24	20	27	21	17	23	19	15	20	16	13

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: P1008689

CATALOG NUMBER: S122DIP-B1005D725UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	1.5
10°-20°	288.2	4.4
20°-30°	436.6	6.6
30°-40°	531.7	8.1
40°-50°	572.0	8.7
50°-60°	555.5	8.4
60°-70°	485.2	7.4
70°-80°	373.4	5.7
80°-90°	252.7	3.8
90°-100°	228.5	3.5
100°-110°	303.9	4.6
110°-120°	387.6	5.9
120°-130°	446.7	6.8
130°-140°	468.9	7.1
140°-150°	444.0	6.8
150°-160°	369.7	5.6
160°-170°	245.2	3.7
170°-180°	85.7	1.3
0°-30°	825.2	12.5
0°-40°	1356.9	20.6
0°-60°	2484.5	37.8
0°-90°	3595.7	54.7
90°-120°	920.0	14.0
90°-150°	2279.7	34.7
90°-180°	2980.0	45.3
0°-180°	6576.0	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	114	230	289	309	13
95°	52	132	226	284	301	54
105°	172	219	300	355	372	182
115°	312	333	401	446	460	308
125°	447	454	501	540	553	400
135°	576	585	602	633	643	446
145°	698	703	708	718	722	436
155°	798	800	802	806	804	367
165°	868	867	867	873	869	245
175°	903	901	899	905	900	86
180°	905	905	905	905	905	

TEST NUMBER: P1008689

CATALOG NUMBER: S122DIP-B1005D725UB30-4F0-XX-W2A-D1

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°	16.2	114.3	229.5	289.4	308.6
92.5°	30.6	118.1	212.6	273.2	291.7
95°	52.0	131.8	225.5	283.9	300.7
97.5°	77.2	150.1	242.2	299.0	317.5
100°	107.8	170.7	259.0	315.8	331.9
102.5°	138.2	193.5	279.5	335.5	351.7
105°	171.8	218.6	300.1	355.4	372.3
107.5°	207.0	246.8	323.6	376.7	389.8
110°	239.0	274.3	349.5	398.7	413.4



TEST NUMBER: P1008689

CATALOG NUMBER: S122DIP-B1005D725UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	275.6	304.8	374.7	421.5	436.9
115°	311.5	333.0	400.6	445.9	460.5
117.5°	345.9	364.3	425.0	468.8	481.8
120°	381.8	394.1	449.4	492.4	507.0
122.5°	414.6	423.7	476.8	515.9	528.3
125°	447.4	454.3	501.1	540.3	553.4
127.5°	481.0	487.8	526.3	561.6	573.1
130°	512.3	520.7	551.4	586.8	596.0
132.5°	547.5	553.5	577.4	608.8	618.8
135°	576.4	584.8	601.7	633.3	643.2
137.5°	610.0	616.9	626.1	654.5	662.3
140°	639.8	645.1	652.1	676.6	682.8
142.5°	670.3	675.7	678.0	697.1	701.8
145°	697.8	703.2	707.7	717.7	722.4
147.5°	723.8	730.6	733.7	736.7	738.3
150°	750.5	755.1	758.1	760.4	758.1
152.5°	774.2	778.7	782.6	785.6	782.6
155°	797.8	800.1	802.4	806.2	803.9
157.5°	818.4	820.0	821.5	826.8	823.0
160°	836.8	838.3	839.1	843.6	840.6
162.5°	853.6	853.6	854.3	859.7	855.9
165°	868.1	867.3	867.3	872.7	868.8
167.5°	881.1	878.8	878.8	884.1	880.3
170°	891.0	888.7	887.9	893.3	888.7
172.5°	897.8	895.6	894.8	900.1	895.6
175°	903.2	900.9	899.4	904.7	900.1
177.5°	906.2	904.0	902.4	907.0	902.4
180°	904.7	904.7	904.7	904.7	904.7

(END OF REPORT)