

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: P1008600

Luminaire Tested: S122DIP-B1005D330UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008600
REPORT IS A COMBINATION OF REPORTS P983607 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D330UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

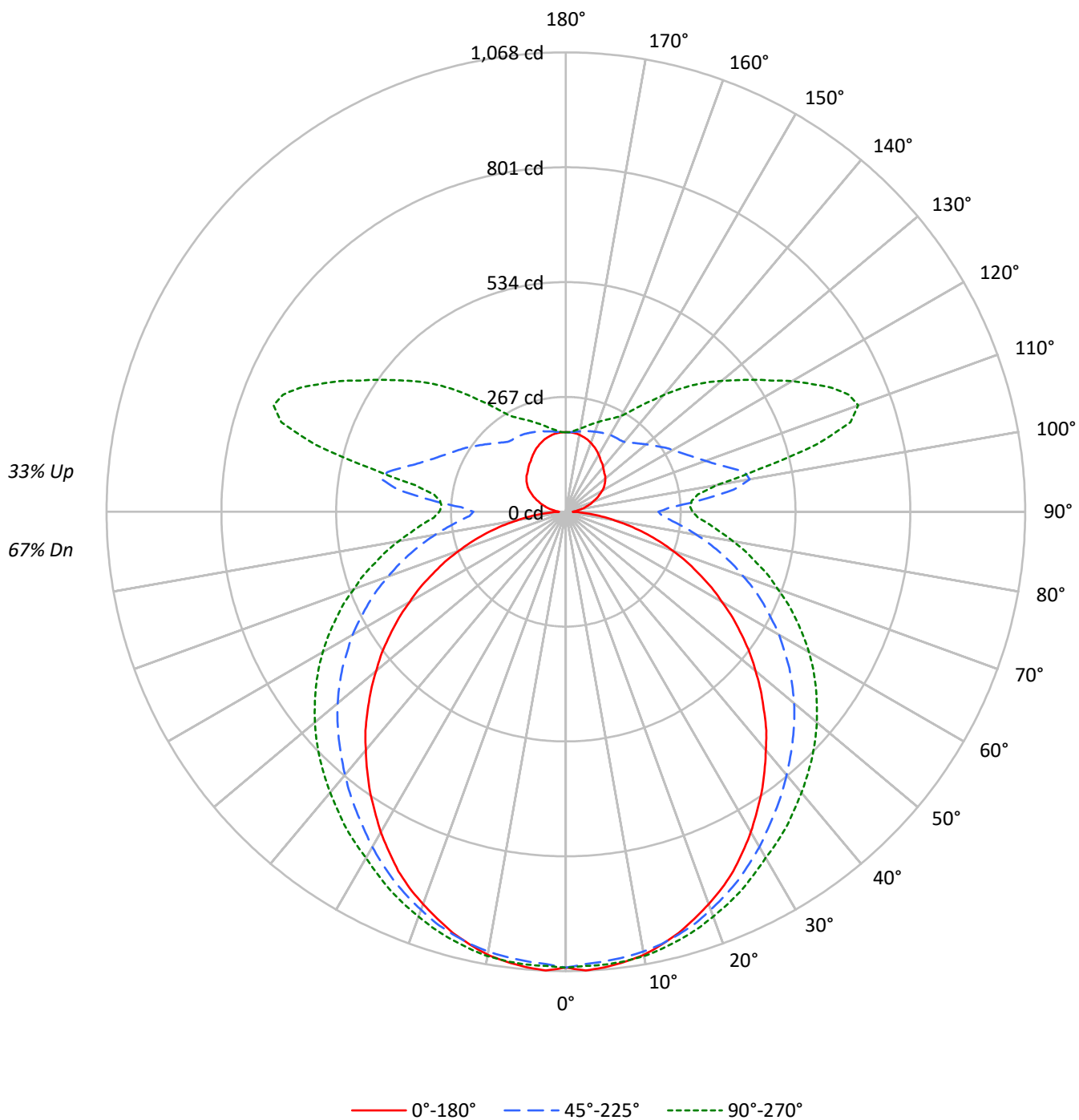
Lumens per Lamp: N/A
Luminaire Lumens: 5333.4 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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: P1008600

CATALOG NUMBER: S122DIP-B1005D330UB30-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1008600

CATALOG NUMBER: S122DIP-B1005D330UB30-4F0-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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72
1	100	94	90	85	94	89	85	81	79	75	72	69	67	64	61	59	57
2	90	81	74	68	84	77	70	65	68	63	58	60	56	52	52	49	46
3	82	71	62	56	76	67	59	53	59	53	48	52	47	43	46	42	39
4	74	62	53	47	70	59	51	45	52	46	41	46	41	37	40	36	33
5	68	55	46	40	64	52	44	38	47	40	35	41	36	31	36	32	28
6	63	50	41	34	59	47	39	33	42	35	30	37	32	27	33	28	25
7	58	45	36	30	54	42	34	29	38	31	26	34	28	24	30	25	22
8	54	41	32	27	50	38	31	25	35	28	23	31	25	21	27	23	19
9	50	37	29	24	47	35	28	23	32	25	21	28	23	19	25	21	17
10	47	34	26	21	44	32	25	20	29	23	19	26	21	17	23	19	16

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: P1008600

CATALOG NUMBER: S122DIP-B1005D330UB30-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	1.9
10°-20°	288.2	5.4
20°-30°	436.6	8.2
30°-40°	531.7	10.0
40°-50°	572.0	10.7
50°-60°	555.5	10.4
60°-70°	485.2	9.1
70°-80°	373.4	7.0
80°-90°	251.3	4.7
90°-100°	247.4	4.6
100°-110°	379.2	7.1
110°-120°	349.4	6.6
120°-130°	265.2	5.0
130°-140°	195.4	3.7
140°-150°	136.2	2.6
150°-160°	93.4	1.8
160°-170°	55.0	1.0
170°-180°	17.9	0.3
0°-30°	825.2	15.5
0°-40°	1356.9	25.4
0°-60°	2484.5	46.6
0°-90°	3594.3	67.4
90°-120°	976.0	18.3
90°-150°	1572.8	29.5
90°-180°	1739.0	32.6
0°-180°	5333.4	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	109	215	276	294	12
95°	25	115	316	288	294	22
105°	51	118	395	657	603	55
115°	82	120	312	593	682	81
125°	110	129	264	462	535	98
135°	127	151	226	359	416	98
145°	143	164	208	268	300	90
155°	162	175	202	229	238	75
165°	177	182	194	205	209	50
175°	184	185	186	188	188	18
180°	185	185	185	185	185	

TEST NUMBER: P1008600

CATALOG NUMBER: S122DIP-B1005D330UB30-4F0-XX-W2A-D4

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°	15.8	109.2	214.9	275.8	294.3
92.5°	19.1	112.0	243.6	274.0	289.0
95°	24.7	115.0	315.9	287.6	293.9
97.5°	29.3	117.1	393.0	328.2	309.1
100°	38.2	117.0	434.3	420.6	354.5
102.5°	44.7	117.4	425.3	553.4	463.0
105°	51.1	117.6	395.4	656.6	603.3
107.5°	59.6	117.7	366.8	686.0	693.7
110°	66.5	118.0	345.6	667.0	723.3



TEST NUMBER: P1008600

CATALOG NUMBER: S122DIP-B1005D330UB30-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	74.3	119.6	327.0	633.2	711.8
115°	82.5	119.5	312.5	592.9	682.1
117.5°	89.5	121.0	298.9	555.3	643.5
120°	97.3	122.4	287.2	519.1	607.6
122.5°	104.8	125.4	276.6	489.6	567.5
125°	109.7	129.2	264.0	462.0	535.0
127.5°	115.0	134.2	253.7	435.4	502.4
130°	119.7	140.1	243.8	410.0	473.4
132.5°	123.9	145.8	234.3	384.2	445.3
135°	126.6	150.8	226.2	358.8	415.7
137.5°	130.5	155.0	218.5	333.0	385.4
140°	135.1	157.4	212.0	309.1	354.2
142.5°	139.7	160.6	208.9	287.2	324.6
145°	142.8	164.2	208.2	267.8	299.8
147.5°	147.8	167.0	207.2	251.0	275.1
150°	152.8	169.9	206.1	241.6	256.9
152.5°	157.8	172.7	204.3	235.0	246.6
155°	162.4	175.4	202.2	228.6	237.7
157.5°	166.3	177.5	200.1	222.6	229.9
160°	170.2	179.6	197.9	216.6	222.4
162.5°	174.1	181.2	196.2	210.9	215.3
165°	177.0	182.3	193.7	205.4	208.6
167.5°	179.4	183.4	191.5	200.4	202.2
170°	181.9	183.9	189.8	195.8	196.5
172.5°	183.4	184.4	187.6	191.7	191.9
175°	184.4	184.6	186.2	188.5	188.0
177.5°	185.1	184.8	184.8	186.2	185.1
180°	184.8	184.8	184.8	184.8	184.8

(END OF REPORT)