

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: P1008589

Luminaire Tested: S122DIP-B1005D330UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008589
REPORT IS A COMBINATION OF REPORTS P983581 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D330UB27-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

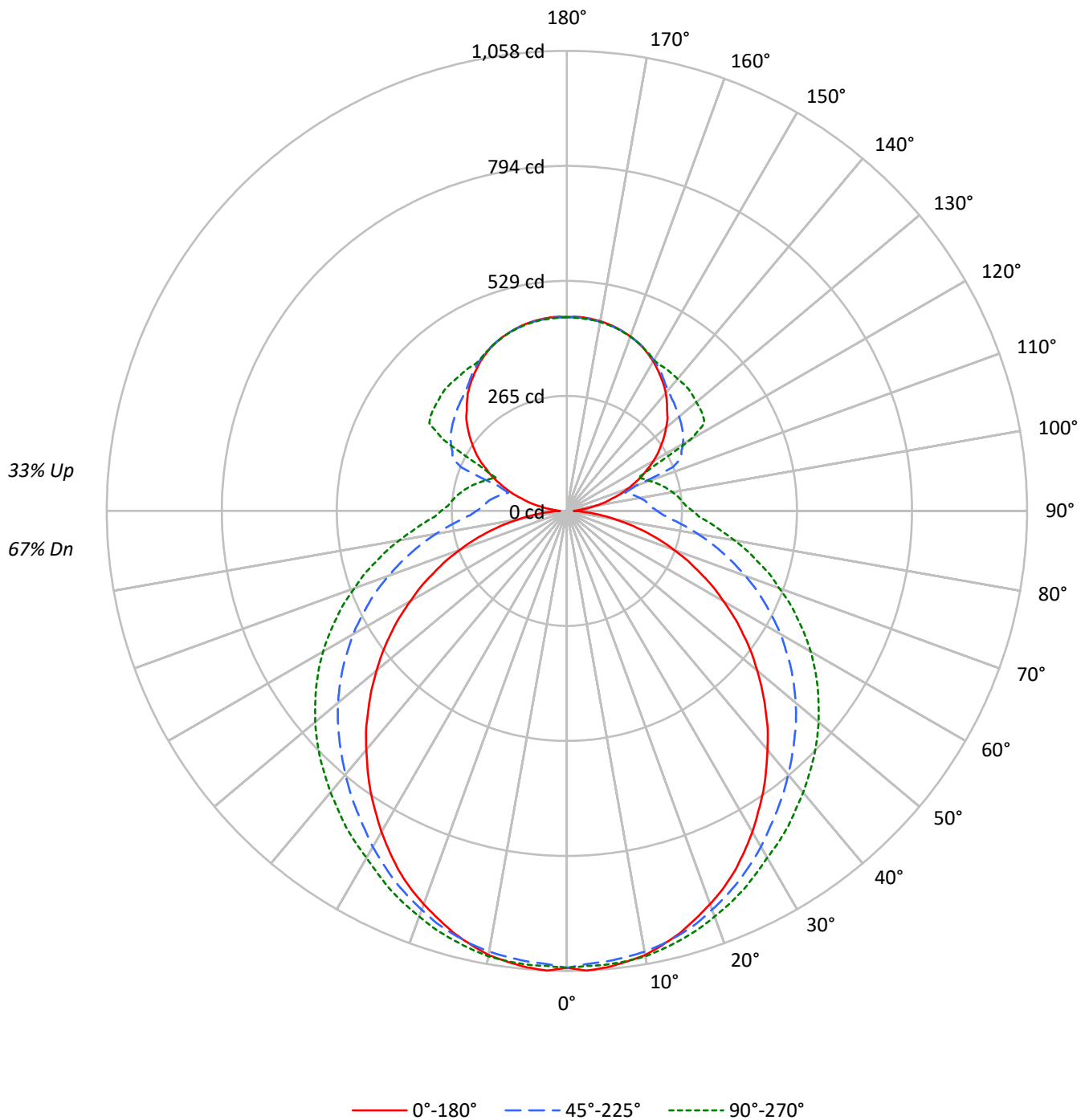
Lumens per Lamp: N/A
Luminaire Lumens: 5316.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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: P1008589

CATALOG NUMBER: S122DIP-B1005D330UB27-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1008589

CATALOG NUMBER: S122DIP-B1005D330UB27-4F0-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	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	93	89	85	81	78	75	72	69	67	64	60	58	57
2	90	81	74	68	84	77	70	65	68	63	58	59	56	52	52	49	46
3	82	71	62	56	76	67	59	53	59	53	48	52	47	43	45	42	38
4	74	62	53	47	69	59	51	45	52	46	40	46	41	36	40	36	33
5	68	55	46	40	64	52	44	38	46	40	35	41	36	31	36	32	28
6	63	50	41	34	59	47	39	33	42	35	30	37	31	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	26	50	38	31	25	34	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°	16632	16632	16632
5°	16706	15921	15831
10°	16595	15371	15146
15°	16360	14799	14442
20°	16066	14201	13775
25°	15773	13627	13169
30°	15364	13044	12569
35°	14950	12483	12129
40°	14515	11997	11692
45°	14100	11555	11311
50°	13655	11149	10935
55°	13187	10718	10551
60°	12614	10269	10149
65°	12016	9752	9684
70°	11342	9198	9185
75°	10478	8643	8715
80°	9117	8066	8226
85°	7741	7522	7807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14100 cd/sqm

TEST NUMBER: P1008589

CATALOG NUMBER: S122DIP-B1005D330UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.9
10°-20°	285.7	5.4
20°-30°	432.8	8.1
30°-40°	527.1	9.9
40°-50°	567.1	10.7
50°-60°	550.7	10.4
60°-70°	481.0	9.0
70°-80°	370.2	7.0
80°-90°	248.7	4.7
90°-100°	185.7	3.5
100°-110°	179.7	3.4
110°-120°	227.7	4.3
120°-130°	286.9	5.4
130°-140°	275.2	5.2
140°-150°	241.1	4.5
150°-160°	191.2	3.6
160°-170°	123.2	2.3
170°-180°	42.4	0.8
0°-30°	818.1	15.4
0°-40°	1345.2	25.3
0°-60°	2463.0	46.3
0°-90°	3562.9	67.0
90°-120°	593.2	11.2
90°-150°	1396.3	26.3
90°-180°	1753.0	33.0
0°-180°	5316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1054	1049	1040	1049	1048	100
15°	1005	1008	1008	1022	1020	283
25°	914	924	938	956	961	420
35°	787	813	842	876	886	492
45°	646	687	740	787	802	498
55°	495	550	629	684	704	443
65°	338	413	502	565	585	336
75°	187	273	370	436	455	198
85°	55	149	247	311	332	58
90°	16	107	207	270	289	12
95°	33	94	188	247	265	34
105°	106	160	151	207	226	113
115°	192	214	290	187	180	188
125°	265	269	324	368	382	237
135°	326	331	349	384	396	252
145°	376	376	381	393	399	236
155°	414	411	415	417	415	191
165°	436	435	436	438	436	123
175°	446	444	445	447	444	42
180°	446	446	446	446	446	

TEST NUMBER: P1008589

CATALOG NUMBER: S122DIP-B1005D330UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1058.3	1053.7	1043.1	1050.7	1047.6
5°	1053.7	1049.2	1040.0	1049.2	1047.6
7.5°	1046.1	1043.1	1035.4	1046.1	1044.6
10°	1037.0	1033.9	1029.4	1041.5	1040.0
12.5°	1021.7	1023.3	1020.2	1032.4	1030.9
15°	1005.0	1008.0	1008.0	1021.7	1020.2
17.5°	983.7	989.8	994.3	1008.0	1008.0
20°	962.4	970.0	976.1	992.8	992.8
22.5°	939.5	948.7	957.8	974.5	977.6
25°	913.6	924.3	938.0	956.3	960.8
27.5°	883.2	899.9	915.2	938.0	941.0
30°	852.7	872.5	892.3	916.7	921.2
32.5°	819.2	842.1	866.4	895.4	904.5
35°	787.2	813.1	842.1	875.6	886.2
37.5°	752.2	781.2	817.7	854.2	864.9
40°	717.2	750.7	791.8	831.4	845.1
42.5°	683.7	717.2	765.9	810.1	823.8
45°	645.6	686.7	740.0	787.2	802.5
47.5°	609.1	653.2	714.2	762.9	779.6
50°	571.0	618.2	686.7	738.5	755.3
52.5°	534.5	584.7	657.8	711.1	729.4
55°	494.9	549.7	628.9	683.7	703.5
57.5°	456.8	517.7	596.9	656.3	676.1
60°	415.7	481.2	568.0	625.8	647.2
62.5°	379.2	447.7	534.5	596.9	616.7
65°	338.0	412.7	502.5	564.9	584.7
67.5°	301.5	379.2	470.5	533.0	554.3
70°	261.9	341.1	435.5	501.0	519.2
72.5°	225.4	307.6	403.5	467.5	490.3
75°	187.3	272.6	370.0	435.5	455.3
77.5°	150.7	239.1	338.0	403.5	424.8
80°	114.2	207.1	306.1	370.0	391.3
82.5°	83.7	175.1	275.6	339.6	359.4
85°	54.8	149.2	246.7	310.6	332.0
87.5°	33.5	124.9	222.3	284.7	304.5
90°	15.5	107.4	207.4	270.0	288.9
92.5°	21.8	101.2	195.0	255.1	273.7
95°	33.2	94.0	187.7	247.2	265.1
97.5°	48.4	87.4	180.9	238.2	256.8
100°	67.8	79.9	170.7	229.6	247.0
102.5°	87.4	137.1	160.6	219.0	236.7
105°	105.6	159.5	150.7	207.4	225.5
107.5°	128.5	173.2	140.6	196.0	213.9
110°	148.9	186.1	167.6	184.1	202.1

TEST NUMBER: P1008589

CATALOG NUMBER: S122DIP-B1005D330UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	169.6	199.8	264.3	174.0	191.8
115°	191.5	213.7	290.3	186.6	180.2
117.5°	209.0	227.5	297.0	296.6	227.4
120°	230.3	241.2	307.9	354.4	327.7
122.5°	248.3	255.0	317.7	360.8	374.8
125°	265.1	269.3	324.2	367.6	382.3
127.5°	281.9	284.9	330.8	372.1	386.2
130°	297.7	301.3	336.9	376.9	388.8
132.5°	313.8	316.5	342.9	380.8	392.7
135°	325.8	331.0	349.1	384.3	395.9
137.5°	340.0	343.9	354.7	386.9	396.6
140°	353.9	355.0	361.5	388.8	396.3
142.5°	365.5	366.2	370.4	391.3	397.3
145°	376.2	375.9	381.4	392.8	398.7
147.5°	386.9	385.9	391.4	394.5	397.8
150°	397.2	394.9	400.1	402.0	400.4
152.5°	405.9	403.3	408.2	410.1	407.8
155°	414.3	411.4	415.3	417.2	414.6
157.5°	421.1	418.5	421.4	423.6	421.1
160°	426.9	424.9	426.9	428.8	426.5
162.5°	432.0	430.1	431.7	434.0	431.0
165°	436.5	434.6	435.6	437.8	435.6
167.5°	440.1	438.1	439.1	441.4	438.5
170°	443.0	441.0	441.7	443.9	441.0
172.5°	444.9	443.0	443.6	445.9	443.0
175°	446.5	444.3	444.9	447.2	443.9
177.5°	447.2	444.9	445.2	447.5	444.6
180°	445.6	445.6	445.6	445.6	445.6

(END OF REPORT)