

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: P1008983

Luminaire Tested: S122DIP-B290D925UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008983
REPORT IS A COMBINATION OF REPORTS P984113 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D925UB50-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

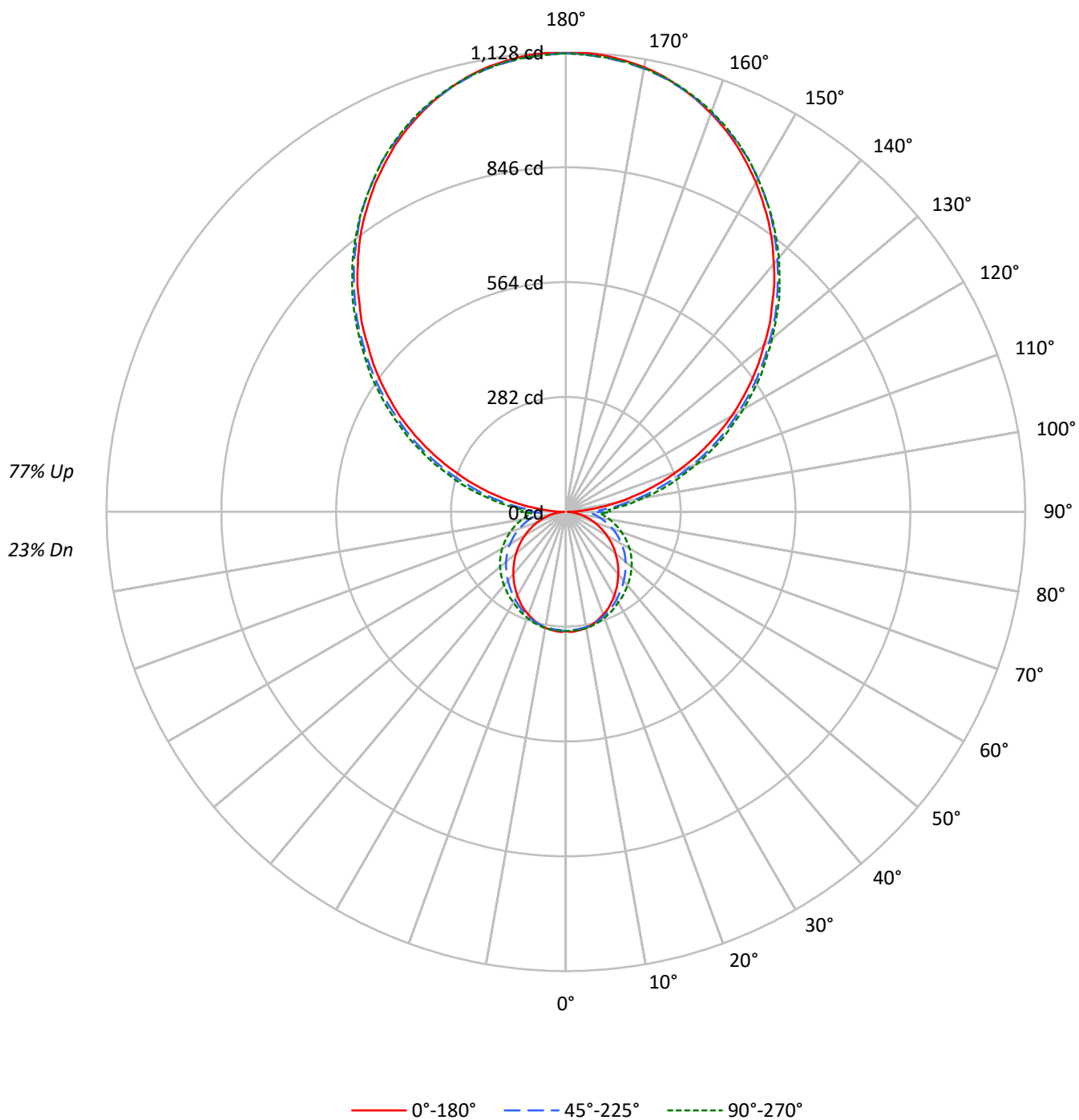
Lumens per Lamp: N/A
Luminaire Lumens: 4270.1 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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: P1008983

CATALOG NUMBER: S122DIP-B290D925UB50-4F0-XX-W2A-D1

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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32
1	91	87	83	79	81	77	74	71	59	57	55	42	41	39	27	26	25
2	83	75	69	64	73	67	62	57	51	48	45	37	34	32	23	22	21
3	75	66	59	53	66	58	52	47	45	41	37	32	29	27	20	19	17
4	69	58	50	44	60	52	45	40	40	35	31	28	25	23	18	16	15
5	63	51	43	38	55	46	39	34	35	30	27	25	22	20	16	14	13
6	58	46	38	32	51	41	34	29	31	27	23	23	19	17	14	13	11
7	53	41	33	28	47	37	30	25	28	24	20	21	17	15	13	11	10
8	49	37	30	24	43	33	27	22	26	21	18	19	15	13	12	10	9
9	46	34	26	22	40	30	24	20	23	19	16	17	14	12	11	9	8
10	42	31	24	19	38	28	21	17	21	17	14	16	13	10	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4643	4643	4643
5°	4663	4444	4419
10°	4631	4290	4228
15°	4566	4131	4032
20°	4484	3963	3845
25°	4402	3803	3676
30°	4288	3641	3508
35°	4172	3483	3386
40°	4052	3348	3264
45°	3936	3226	3157
50°	3812	3112	3052
55°	3680	2991	2946
60°	3520	2866	2832
65°	3356	2723	2703
70°	3166	2568	2563
75°	2926	2413	2433
80°	2547	2250	2296
85°	2161	2101	2180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3936 cd/sqm

TEST NUMBER: P1008983

CATALOG NUMBER: S122DIP-B290D925UB50-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	0.7
10°-20°	79.7	1.9
20°-30°	120.8	2.8
30°-40°	147.1	3.4
40°-50°	158.3	3.7
50°-60°	153.7	3.6
60°-70°	134.3	3.1
70°-80°	103.3	2.4
80°-90°	72.4	1.7
90°-100°	117.4	2.7
100°-110°	256.3	6.0
110°-120°	401.9	9.4
120°-130°	511.1	12.0
130°-140°	564.7	13.2
140°-150°	549.4	12.9
150°-160°	460.1	10.8
160°-170°	305.1	7.1
170°-180°	106.6	2.5
0°-30°	228.3	5.3
0°-40°	375.5	8.8
0°-60°	687.5	16.1
0°-90°	997.5	23.4
90°-120°	775.6	18.2
90°-150°	2400.8	56.2
90°-180°	3273.0	76.6
0°-180°	4270.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	293	293	293	293	293	
5°	294	293	290	293	292	28
15°	280	281	281	285	285	79
25°	255	258	262	267	268	117
35°	220	227	235	244	247	137
45°	180	192	207	220	224	139
55°	138	153	176	191	196	124
65°	94	115	140	158	163	94
75°	52	76	103	122	127	55
85°	15	42	69	87	93	16
90°	5	41	89	104	110	6
95°	53	82	110	126	129	58
105°	206	222	246	262	267	218
115°	382	392	409	421	423	378
125°	554	562	573	582	585	495
135°	716	726	732	740	741	553
145°	868	875	881	884	883	543
155°	993	996	999	1003	1000	457
165°	1080	1079	1079	1086	1081	305
175°	1124	1121	1119	1126	1120	107
180°	1126	1126	1126	1126	1126	

TEST NUMBER: P1008983

CATALOG NUMBER: S122DIP-B290D925UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	293.3	293.3	293.3	293.3	293.3
2.5°	295.4	294.1	291.1	293.3	292.4
5°	294.1	292.8	290.3	292.8	292.4
7.5°	292.0	291.1	289.0	292.0	291.6
10°	289.4	288.6	287.3	290.7	290.3
12.5°	285.2	285.6	284.8	288.2	287.7
15°	280.5	281.4	281.4	285.2	284.8
17.5°	274.6	276.3	277.5	281.4	281.4
20°	268.6	270.7	272.4	277.1	277.1
22.5°	262.2	264.8	267.3	272.0	272.9
25°	255.0	258.0	261.8	266.9	268.2
27.5°	246.5	251.2	255.4	261.8	262.7
30°	238.0	243.5	249.1	255.9	257.1
32.5°	228.7	235.0	241.8	249.9	252.5
35°	219.7	227.0	235.0	244.4	247.4
37.5°	210.0	218.0	228.2	238.4	241.4
40°	200.2	209.5	221.0	232.1	235.9
42.5°	190.8	200.2	213.8	226.1	229.9
45°	180.2	191.7	206.6	219.7	224.0
47.5°	170.0	182.3	199.3	212.9	217.6
50°	159.4	172.6	191.7	206.1	210.8
52.5°	149.2	163.2	183.6	198.5	203.6
55°	138.1	153.4	175.5	190.8	196.4
57.5°	127.5	144.5	166.6	183.2	188.7
60°	116.0	134.3	158.5	174.7	180.6
62.5°	105.8	125.0	149.2	166.6	172.1
65°	94.4	115.2	140.3	157.7	163.2
67.5°	84.2	105.8	131.3	148.8	154.7
70°	73.1	95.2	121.6	139.8	144.9
72.5°	62.9	85.9	112.6	130.5	136.9
75°	52.3	76.1	103.3	121.6	127.1
77.5°	42.1	66.7	94.4	112.6	118.6
80°	31.9	57.8	85.4	103.3	109.2
82.5°	23.4	48.9	76.9	94.8	100.3
85°	15.3	41.7	68.9	86.7	92.7
87.5°	9.4	34.9	62.1	79.5	85.0
90°	5.3	41.3	89.4	104.5	110.5
92.5°	24.7	54.9	81.8	99.3	104.4
95°	52.8	82.3	109.7	125.8	129.0
97.5°	85.7	112.5	140.9	156.6	161.7
100°	123.7	147.0	173.6	189.3	193.1
102.5°	163.2	182.9	209.6	225.8	229.6
105°	206.4	221.6	245.6	262.3	267.0
107.5°	250.1	264.1	285.4	300.7	300.7
110°	291.5	305.7	326.5	340.1	341.9

TEST NUMBER: P1008983

CATALOG NUMBER: S122DIP-B290D925UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	337.1	349.6	368.2	379.0	381.7
115°	381.7	392.2	409.4	421.2	422.9
117.5°	426.0	437.0	450.1	460.0	461.4
120°	470.7	480.0	489.4	501.3	503.1
122.5°	511.5	521.4	532.4	541.0	542.9
125°	553.9	562.4	573.2	581.7	584.7
127.5°	595.7	605.6	613.3	620.1	621.2
130°	634.6	646.5	653.6	661.9	661.5
132.5°	678.3	687.3	694.7	699.7	700.3
135°	715.8	726.3	732.5	740.4	741.0
137.5°	757.6	766.2	770.3	777.4	776.5
140°	794.7	802.9	808.5	815.3	814.0
142.5°	832.7	840.9	843.7	849.8	848.1
145°	868.4	875.1	880.8	884.3	882.6
147.5°	900.7	909.3	913.1	915.4	912.9
150°	934.0	939.7	943.5	946.3	943.5
152.5°	963.4	969.1	973.9	977.7	973.9
155°	992.9	995.7	998.6	1003.3	1000.5
157.5°	1018.5	1020.4	1022.3	1029.0	1024.2
160°	1041.3	1043.2	1044.2	1049.9	1046.1
162.5°	1062.2	1062.2	1063.2	1069.8	1065.1
165°	1080.3	1079.3	1079.3	1086.0	1081.2
167.5°	1096.4	1093.6	1093.6	1100.2	1095.5
170°	1108.8	1105.9	1105.0	1111.6	1105.9
172.5°	1117.3	1114.5	1113.5	1120.2	1114.5
175°	1124.0	1121.1	1119.2	1125.9	1120.2
177.5°	1127.8	1124.9	1123.0	1128.7	1123.0
180°	1125.9	1125.9	1125.9	1125.9	1125.9

(END OF REPORT)