

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: P1008887

Luminaire Tested: S122DIP-B290D530UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008887
REPORT IS A COMBINATION OF REPORTS P983987 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D530UB40-4F0-XX-W2A-F1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

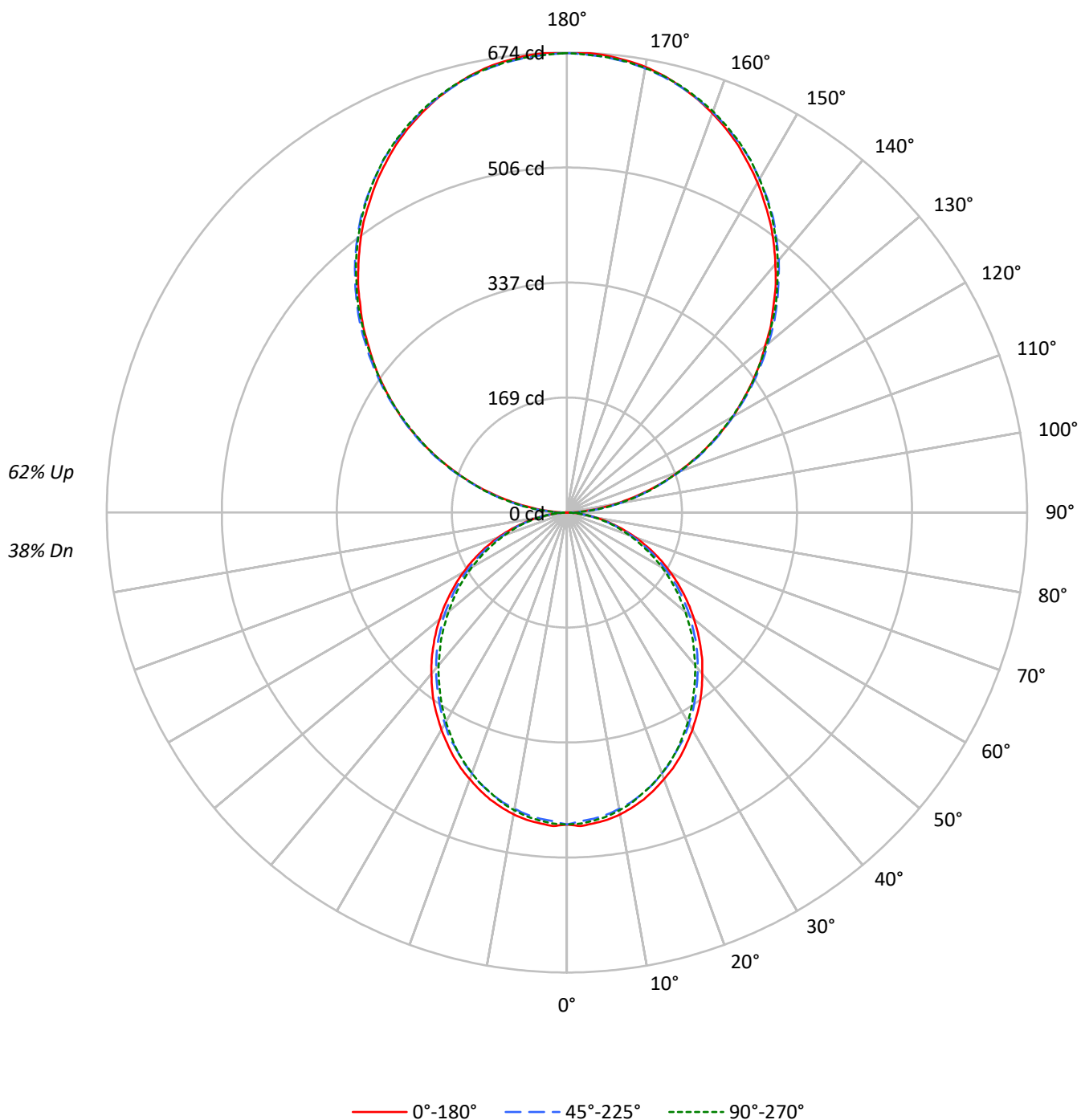
Lumens per Lamp: N/A
Luminaire Lumens: 3047.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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: P1008887

CATALOG NUMBER: S122DIP-B290D530UB40-4F0-XX-W2A-F1

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	95	91	87	84	86	83	79	76	67	65	63	53	52	50	40	39	38
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	26	24
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18
7	56	44	36	31	51	41	34	29	34	28	24	27	23	20	21	18	16
8	52	40	33	27	47	37	30	25	31	25	22	25	21	18	19	16	14
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7236	7236	7236
5°	7247	6897	6849
10°	7189	6583	6453
15°	7083	6266	6036
20°	6941	5921	5641
25°	6799	5561	5247
30°	6622	5223	4834
35°	6453	4866	4428
40°	6246	4515	4044
45°	6039	4166	3667
50°	5813	3811	3278
55°	5574	3431	2907
60°	5307	3019	2523
65°	5016	2603	2118
70°	4643	2144	1711
75°	4128	1654	1321
80°	3513	1123	849
85°	2543	521	362

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6039 cd/sqm

TEST NUMBER: P1008887

CATALOG NUMBER: S122DIP-B290D530UB40-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.4
10°-20°	121.1	4.0
20°-30°	177.9	5.8
30°-40°	206.6	6.8
40°-50°	206.4	6.8
50°-60°	179.9	5.9
60°-70°	133.0	4.4
70°-80°	75.3	2.5
80°-90°	21.8	0.7
90°-100°	41.6	1.4
100°-110°	132.4	4.3
110°-120°	226.5	7.4
120°-130°	297.9	9.8
130°-140°	334.4	11.0
140°-150°	327.9	10.8
150°-160°	275.1	9.0
160°-170°	182.4	6.0
170°-180°	63.8	2.1
0°-30°	342.0	11.2
0°-40°	548.6	18.0
0°-60°	934.9	30.7
0°-90°	1164.9	38.2
90°-120°	400.5	13.1
90°-150°	1360.8	44.7
90°-180°	1882.0	61.8
0°-180°	3047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	457	457	457	457	457	
5°	457	455	450	454	453	43
15°	435	432	427	429	426	123
25°	394	390	383	384	383	181
35°	340	335	328	326	324	212
45°	276	273	267	262	260	213
55°	209	207	201	196	194	187
65°	141	138	134	130	128	139
75°	74	73	71	68	69	79
85°	18	18	17	16	15	20
90°	1	7	20	19	19	3
95°	30	35	36	36	35	33
105°	122	124	125	126	126	129
115°	227	231	230	229	227	225
125°	331	336	334	332	332	295
135°	428	434	435	435	433	331
145°	519	523	527	527	525	324
155°	594	595	597	600	598	273
165°	646	645	645	649	646	182
175°	672	670	669	673	670	64
180°	673	673	673	673	673	

TEST NUMBER: P1008887

CATALOG NUMBER: S122DIP-B290D530UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.1	457.1	457.1	457.1	457.1
2.5°	459.8	457.6	452.7	457.1	456.2
5°	457.1	455.4	450.5	454.0	453.2
7.5°	454.0	451.4	446.6	450.1	449.2
10°	449.2	446.1	440.9	444.4	443.1
12.5°	442.6	440.0	434.7	436.9	436.0
15°	435.1	432.5	426.8	428.6	426.4
17.5°	425.9	423.3	417.6	419.8	417.6
20°	415.8	413.2	407.0	408.3	406.6
22.5°	405.7	401.7	396.0	396.0	395.1
25°	393.8	390.3	382.8	383.7	382.8
27.5°	380.6	377.6	371.9	370.5	368.3
30°	367.5	363.9	357.3	356.0	354.3
32.5°	353.4	350.8	343.7	341.1	339.3
35°	339.8	335.4	328.3	325.7	323.5
37.5°	324.4	320.4	313.4	310.3	308.1
40°	308.6	305.0	298.0	294.1	292.3
42.5°	293.2	289.7	282.6	278.2	275.6
45°	276.5	273.4	266.8	262.0	260.2
47.5°	260.2	257.1	250.1	245.3	242.6
50°	243.1	240.9	234.7	228.6	226.4
52.5°	226.4	223.3	217.6	212.7	209.7
55°	209.2	206.6	201.3	196.0	193.8
57.5°	192.1	189.9	184.2	178.9	177.1
60°	174.9	173.2	167.0	162.2	160.9
62.5°	158.2	155.2	150.8	146.4	144.6
65°	141.1	138.5	134.1	130.1	127.9
67.5°	123.5	121.3	117.4	114.3	112.5
70°	107.2	105.5	101.5	98.5	96.7
72.5°	90.5	88.8	86.6	83.5	82.2
75°	73.8	73.0	70.8	68.1	69.0
77.5°	58.9	57.1	56.3	54.9	53.6
80°	44.0	43.5	42.6	41.3	40.4
82.5°	29.9	29.9	29.4	27.7	27.7
85°	18.0	17.6	17.1	15.8	15.4
87.5°	7.9	7.0	6.2	4.8	4.4
90°	0.6	7.4	19.9	18.7	19.3
92.5°	12.5	17.0	17.6	18.2	18.2
95°	29.5	35.2	36.4	36.4	35.2
97.5°	49.4	54.5	56.8	56.8	56.8
100°	72.1	76.7	78.4	78.4	77.8
102.5°	96.0	99.4	101.7	102.3	101.7
105°	122.1	123.8	125.0	126.1	126.1
107.5°	148.3	150.5	150.5	151.1	148.3
110°	173.3	176.7	176.7	176.7	175.0

TEST NUMBER: P1008887

CATALOG NUMBER: S122DIP-B290D530UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	200.5	203.9	203.4	201.7	200.5
115°	227.2	230.6	229.5	228.9	227.2
117.5°	253.9	258.5	255.6	253.9	252.2
120°	280.6	285.2	280.6	280.6	278.9
122.5°	305.1	310.7	307.9	306.2	305.1
125°	330.6	335.7	334.0	332.3	331.8
127.5°	355.6	361.9	359.6	357.3	355.6
130°	378.9	386.3	385.2	384.0	381.8
132.5°	405.0	410.7	411.3	408.5	406.7
135°	427.8	434.0	435.2	434.6	432.9
137.5°	452.8	457.9	459.0	458.4	456.2
140°	474.9	480.0	482.9	482.9	480.6
142.5°	497.6	502.8	504.5	505.0	502.8
145°	519.2	523.2	526.6	527.2	524.9
147.5°	538.5	543.7	545.9	547.1	544.8
150°	558.4	561.8	564.1	565.8	564.1
152.5°	576.0	579.4	582.3	584.6	582.3
155°	593.6	595.4	597.1	599.9	598.2
157.5°	609.0	610.1	611.3	615.2	612.4
160°	622.6	623.8	624.3	627.7	625.5
162.5°	635.1	635.1	635.7	639.7	636.8
165°	645.9	645.3	645.3	649.3	646.5
167.5°	655.6	653.9	653.9	657.8	655.0
170°	663.0	661.3	660.7	664.7	661.3
172.5°	668.1	666.4	665.8	669.8	666.4
175°	672.0	670.3	669.2	673.2	669.8
177.5°	674.3	672.6	671.5	674.9	671.5
180°	673.2	673.2	673.2	673.2	673.2

(END OF REPORT)