

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: P1009877

Luminaire Tested: S122RDIP-B290D530UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009877
REPORT IS A COMBINATION OF REPORTS P988125 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B290D530UB35-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

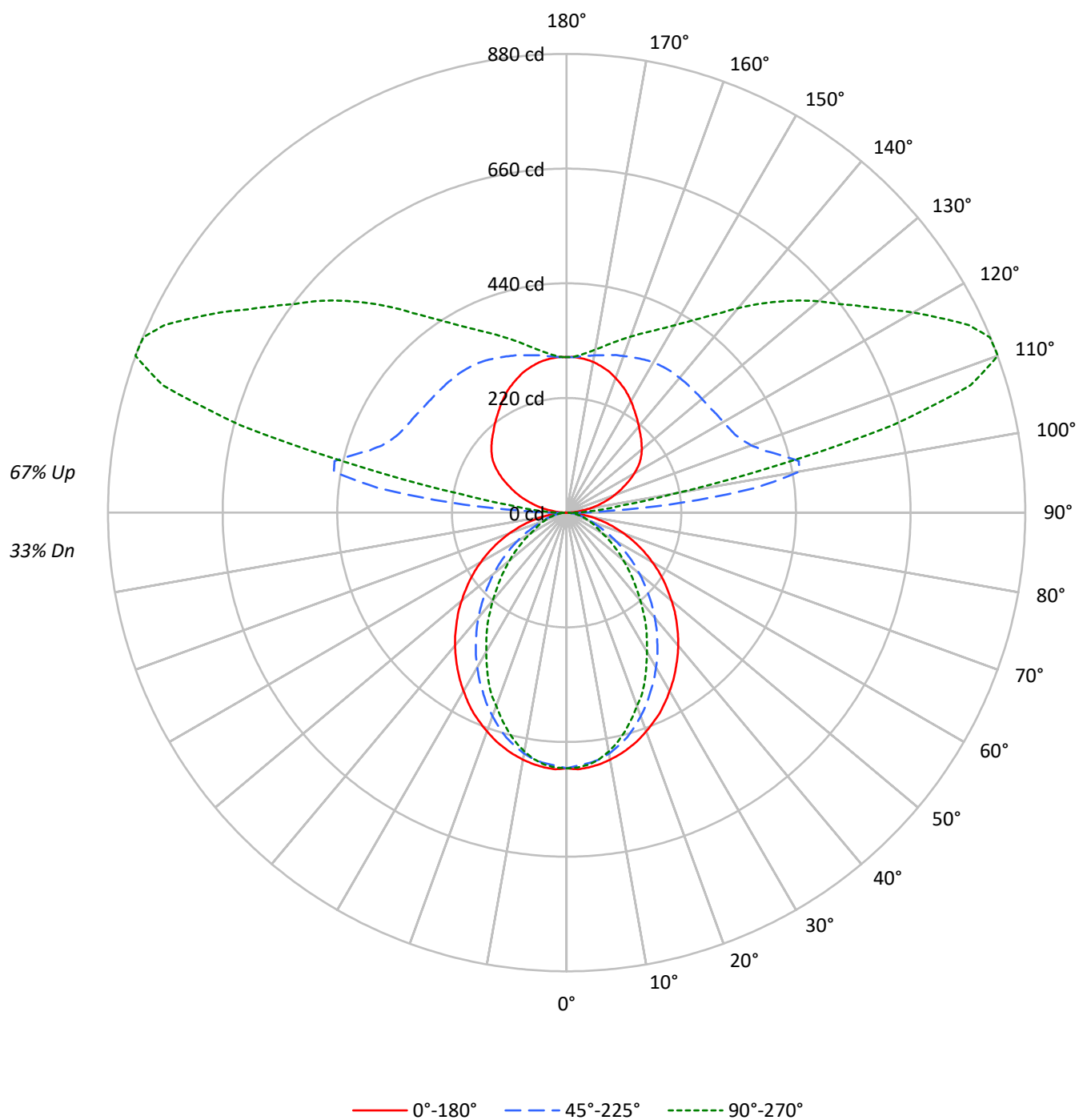
Lumens per Lamp: N/A
Luminaire Lumens: 3091.4 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1009877

CATALOG NUMBER: S122RDIP-B290D530UB35-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1009877

CATALOG NUMBER: S122RDIP-B290D530UB35-4F0-XX-W2A-F4

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	94	90	86	83	85	81	78	76	65	63	61	50	49	47	36	35	35
2	86	79	73	68	77	71	67	62	57	54	51	44	42	40	32	31	30
3	79	70	63	57	71	63	57	52	51	47	43	39	37	34	29	27	25
4	72	62	54	49	65	56	50	45	45	41	37	35	32	29	26	24	22
5	66	55	47	42	59	50	43	38	41	36	32	32	28	26	23	21	20
6	61	49	42	36	55	45	38	33	37	32	28	29	25	23	21	19	17
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	20	17	15
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	16	14
9	49	37	30	25	44	34	27	23	28	23	20	22	19	16	17	14	13
10	45	34	27	22	41	31	25	21	25	21	18	20	17	15	15	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7766	7766	7766
5°	7778	7388	7334
10°	7702	7007	6776
15°	7596	6558	6141
20°	7457	6047	5476
25°	7313	5522	4868
30°	7121	5011	4204
35°	6932	4494	3634
40°	6740	3989	3046
45°	6517	3467	2534
50°	6284	2963	2063
55°	6046	2459	1638
60°	5765	1967	1239
65°	5446	1500	1007
70°	5058	1088	801
75°	4570	829	612
80°	3864	561	410
85°	2698	256	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6517 cd/sqm

TEST NUMBER: P1009877

CATALOG NUMBER: S122RDIP-B290D530UB35-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	1.5
10°-20°	126.2	4.1
20°-30°	177.2	5.7
30°-40°	193.2	6.2
40°-50°	177.6	5.7
50°-60°	139.4	4.5
60°-70°	90.8	2.9
70°-80°	46.7	1.5
80°-90°	13.8	0.4
90°-100°	121.0	3.9
100°-110°	409.0	13.2
110°-120°	429.9	13.9
120°-130°	353.5	11.4
130°-140°	284.1	9.2
140°-150°	214.6	6.9
150°-160°	150.9	4.9
160°-170°	88.8	2.9
170°-180°	28.9	0.9
0°-30°	349.4	11.3
0°-40°	542.6	17.6
0°-60°	859.6	27.8
0°-90°	1010.9	32.7
90°-120°	959.8	31.0
90°-150°	1811.9	58.6
90°-180°	2080.0	67.3
0°-180°	3091.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	491	491	491	491	491	
5°	491	488	483	487	485	47
15°	467	462	447	438	434	131
25°	424	409	380	362	355	195
35°	365	342	303	275	266	228
45°	298	269	222	190	180	230
55°	227	192	144	118	109	203
65°	153	117	77	62	61	152
75°	82	51	36	32	32	86
85°	19	10	8	8	8	22
90°	1	8	20	19	19	2
95°	20	49	225	85	65	21
105°	70	106	425	760	647	74
115°	123	156	356	734	851	122
125°	172	204	342	595	690	153
135°	202	241	338	500	572	156
145°	231	265	336	418	457	145
155°	262	283	326	369	384	121
165°	286	294	313	332	337	81
175°	298	298	301	304	304	28
180°	298	298	298	298	298	

TEST NUMBER: P1009877

CATALOG NUMBER: S122RDIP-B290D530UB35-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	490.6	490.6	490.6	490.6	490.6
2.5°	492.8	490.6	485.7	490.2	489.3
5°	490.6	488.4	482.6	486.6	485.3
7.5°	486.6	483.9	477.7	479.5	477.3
10°	481.3	478.2	469.3	468.0	465.3
12.5°	474.6	470.6	458.6	456.0	451.1
15°	466.6	461.7	446.7	438.2	433.8
17.5°	457.3	450.2	431.6	421.8	414.7
20°	446.7	437.8	415.6	404.5	394.7
22.5°	435.1	424.9	399.1	384.1	377.4
25°	423.6	409.4	380.1	361.9	355.2
27.5°	409.8	394.7	362.3	341.4	331.2
30°	395.2	378.3	342.8	320.1	308.1
32.5°	380.9	360.5	324.1	297.5	286.4
35°	365.0	342.3	303.2	275.3	265.5
37.5°	349.4	325.0	283.7	253.1	242.0
40°	333.0	306.4	263.3	231.8	220.2
42.5°	316.1	287.7	242.9	210.0	198.9
45°	298.4	268.6	222.0	190.5	179.8
47.5°	281.5	250.0	202.0	170.5	160.7
50°	262.8	231.3	182.5	151.8	142.5
52.5°	244.6	211.3	163.8	134.5	126.1
55°	226.9	192.2	144.3	117.7	109.2
57.5°	208.7	173.2	127.0	102.1	95.0
60°	190.0	154.5	108.8	86.1	79.0
62.5°	171.8	136.3	93.2	71.9	68.4
65°	153.2	117.2	77.3	62.2	60.8
67.5°	135.4	99.5	62.2	54.6	53.3
70°	116.8	82.1	51.5	47.1	45.3
72.5°	99.0	66.2	43.1	39.5	38.6
75°	81.7	50.6	35.5	32.4	32.0
77.5°	64.4	36.0	28.0	26.2	25.3
80°	48.4	25.8	21.3	19.5	19.5
82.5°	33.7	17.3	14.7	13.8	13.8
85°	19.1	9.8	8.4	8.4	8.4
87.5°	7.1	3.6	3.6	3.1	3.1
90°	0.6	7.8	19.5	18.6	18.9
92.5°	8.6	27.2	88.4	40.7	35.0
95°	20.1	49.4	224.9	84.9	65.4
97.5°	29.8	65.2	366.7	170.4	109.6
100°	44.2	79.8	453.3	339.4	205.4
102.5°	57.4	93.0	456.2	573.9	400.5
105°	70.0	105.6	425.2	760.0	646.7
107.5°	83.8	118.2	396.5	827.5	812.6
110°	97.6	131.1	377.0	816.6	880.3

TEST NUMBER: P1009877

CATALOG NUMBER: S122RDIP-B290D530UB35-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110.2	143.5	364.4	779.6	879.1
115°	123.4	155.8	355.8	734.2	851.0
117.5°	137.2	168.1	351.2	690.9	808.6
120°	149.8	180.2	347.2	652.2	767.8
122.5°	161.8	192.5	344.9	622.0	725.3
125°	172.2	203.8	342.0	594.8	690.3
127.5°	180.8	214.4	340.3	571.6	657.6
130°	188.2	223.8	339.1	548.0	630.7
132.5°	195.1	233.0	338.6	523.6	602.5
135°	202.0	241.0	338.0	499.8	572.1
137.5°	208.3	247.9	338.0	475.8	542.9
140°	215.8	254.2	337.4	454.5	512.4
142.5°	223.2	259.4	337.4	434.2	482.0
145°	230.7	265.1	336.3	417.5	456.8
147.5°	238.7	269.7	334.6	402.8	434.4
150°	246.8	274.3	332.8	390.2	414.9
152.5°	254.8	278.9	330.0	379.6	398.3
155°	262.2	283.2	326.5	369.2	383.9
157.5°	268.6	286.6	323.1	359.5	371.3
160°	274.9	290.0	319.6	349.8	359.2
162.5°	281.2	292.7	316.8	340.6	347.8
165°	285.8	294.4	312.7	331.6	336.9
167.5°	289.8	296.2	309.3	323.6	326.5
170°	293.8	297.0	306.4	316.2	317.3
172.5°	296.1	297.8	303.0	309.6	309.9
175°	297.8	298.1	300.7	304.4	303.6
177.5°	299.0	298.4	298.4	300.7	299.0
180°	298.4	298.4	298.4	298.4	298.4

(END OF REPORT)