

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: P1008875

Luminaire Tested: S122DIP-B290D530UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008875
REPORT IS A COMBINATION OF REPORTS P983975 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D530UB35-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

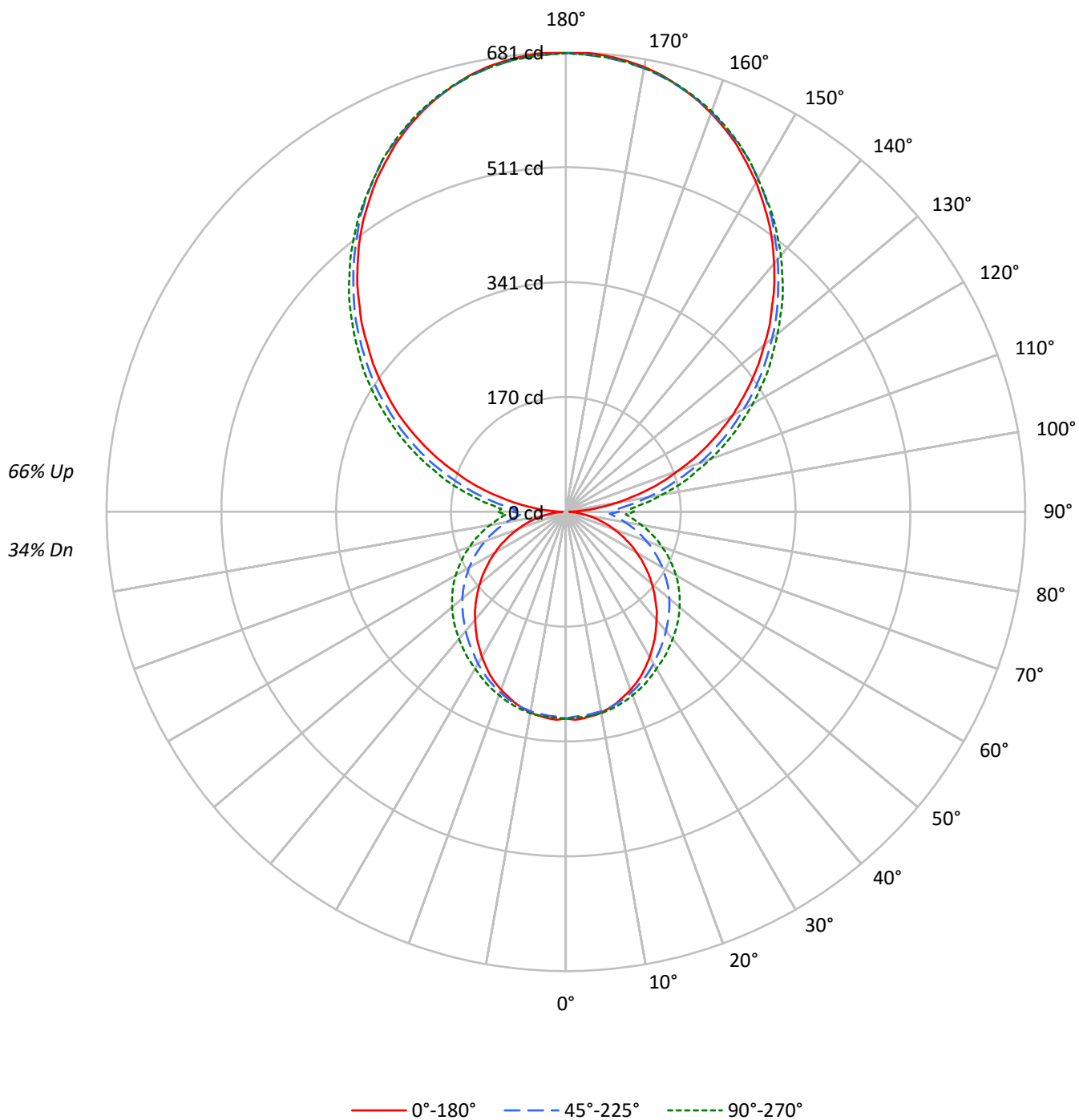
Lumens per Lamp: N/A
Luminaire Lumens: 3072.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
Input Voltage (V):
Input Current (A_{in}): 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

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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	93	88	84	81	84	80	76	73	64	61	59	49	47	45	35	34	33
2	84	77	70	65	76	69	64	59	55	51	48	42	39	37	30	28	27
3	77	67	59	54	69	60	54	49	48	44	40	37	34	31	26	24	22
4	70	59	51	45	63	53	46	41	43	37	33	33	29	26	23	21	19
5	64	52	44	38	57	47	40	35	38	33	29	29	25	22	21	18	16
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14
7	54	42	34	28	49	38	31	26	31	25	22	24	20	17	17	15	13
8	50	38	30	25	45	34	28	23	28	23	19	22	18	15	16	13	11
9	47	34	27	22	42	31	25	20	25	20	17	20	16	13	14	12	10
10	43	31	24	20	39	29	22	18	23	18	15	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4850	4850	4850
5°	4872	4643	4617
10°	4839	4483	4417
15°	4770	4315	4212
20°	4684	4141	4017
25°	4599	3973	3840
30°	4479	3804	3665
35°	4360	3639	3537
40°	4232	3498	3409
45°	4112	3370	3298
50°	3982	3252	3188
55°	3845	3126	3076
60°	3678	2994	2959
65°	3505	2843	2824
70°	3309	2682	2678
75°	3054	2520	2542
80°	2659	2351	2399
85°	2260	2192	2276

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	0.9
10°-20°	83.3	2.7
20°-30°	126.2	4.1
30°-40°	153.7	5.0
40°-50°	165.4	5.4
50°-60°	160.6	5.2
60°-70°	140.2	4.6
70°-80°	108.0	3.5
80°-90°	74.2	2.4
90°-100°	91.9	3.0
100°-110°	170.2	5.5
110°-120°	252.9	8.2
120°-130°	314.3	10.2
130°-140°	343.4	11.2
140°-150°	332.2	10.8
150°-160°	277.9	9.0
160°-170°	184.3	6.0
170°-180°	64.4	2.1
0°-30°	238.5	7.8
0°-40°	392.2	12.8
0°-60°	718.2	23.4
0°-90°	1040.6	33.9
90°-120°	515.0	16.8
90°-150°	1504.9	49.0
90°-180°	2031.0	66.1
0°-180°	3072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	306	306	306	306	306	
5°	307	306	303	306	306	29
15°	293	294	294	298	298	83
25°	266	270	274	279	280	123
35°	230	237	246	255	258	143
45°	188	200	216	230	234	145
55°	144	160	183	199	205	129
65°	99	120	146	165	170	98
75°	55	80	108	127	133	58
85°	16	44	72	91	97	17
90°	5	38	79	95	101	5
95°	33	60	88	105	109	36
105°	126	140	164	181	186	133
115°	231	240	258	271	274	229
125°	335	340	352	363	366	299
135°	432	439	444	453	455	334
145°	524	528	532	535	535	328
155°	600	601	603	606	604	276
165°	652	652	652	656	653	184
175°	679	677	676	680	676	64
180°	680	680	680	680	680	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	306.4	306.4	306.4	306.4	306.4
2.5°	308.6	307.3	304.1	306.4	305.5
5°	307.3	305.9	303.3	305.9	305.5
7.5°	305.0	304.1	301.9	305.0	304.6
10°	302.4	301.5	300.2	303.7	303.3
12.5°	297.9	298.4	297.5	301.0	300.6
15°	293.0	293.9	293.9	297.9	297.5
17.5°	286.8	288.6	289.9	293.9	293.9
20°	280.6	282.8	284.6	289.5	289.5
22.5°	274.0	276.6	279.3	284.2	285.1
25°	266.4	269.5	273.5	278.8	280.2
27.5°	257.5	262.4	266.9	273.5	274.4
30°	248.6	254.4	260.2	267.3	268.6
32.5°	238.9	245.5	252.6	261.1	263.7
35°	229.6	237.1	245.5	255.3	258.4
37.5°	219.3	227.8	238.4	249.1	252.2
40°	209.1	218.9	230.9	242.4	246.4
42.5°	199.4	209.1	223.3	236.2	240.2
45°	188.3	200.3	215.8	229.6	234.0
47.5°	177.6	190.5	208.2	222.5	227.3
50°	166.5	180.3	200.3	215.3	220.2
52.5°	155.8	170.5	191.8	207.4	212.7
55°	144.3	160.3	183.4	199.4	205.1
57.5°	133.2	151.0	174.1	191.4	197.1
60°	121.2	140.3	165.6	182.5	188.7
62.5°	110.6	130.5	155.8	174.1	179.8
65°	98.6	120.3	146.5	164.7	170.5
67.5°	87.9	110.6	137.2	155.4	161.6
70°	76.4	99.5	127.0	146.1	151.4
72.5°	65.7	89.7	117.7	136.3	143.0
75°	54.6	79.5	107.9	127.0	132.8
77.5°	44.0	69.7	98.6	117.7	123.9
80°	33.3	60.4	89.2	107.9	114.1
82.5°	24.4	51.1	80.4	99.0	104.8
85°	16.0	43.5	71.9	90.6	96.8
87.5°	9.8	36.4	64.8	83.0	88.8
90°	5.0	37.7	78.7	95.3	101.2
92.5°	16.6	44.7	72.4	90.3	95.7
95°	33.4	60.0	87.8	104.6	108.9
97.5°	53.0	77.3	105.4	121.8	127.1
100°	76.0	97.0	123.6	140.0	144.3
102.5°	99.7	117.7	144.0	160.6	164.9
105°	125.6	140.2	164.4	181.1	186.0
107.5°	152.0	165.0	187.2	202.8	204.9
110°	176.8	189.2	210.9	225.1	228.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	204.4	214.9	234.7	247.2	251.0
115°	231.3	239.7	258.4	271.2	274.3
117.5°	257.8	266.0	281.7	293.4	296.1
120°	284.8	291.2	304.4	316.8	319.9
122.5°	309.4	315.7	329.2	339.5	342.3
125°	334.9	340.0	352.5	362.8	366.2
127.5°	360.1	365.9	375.6	384.4	386.7
130°	383.6	390.6	398.8	408.3	409.6
132.5°	410.0	415.3	422.5	429.9	431.8
135°	432.5	438.8	444.4	453.2	455.0
137.5°	457.7	462.9	466.3	474.2	475.0
140°	480.1	484.9	488.6	495.7	496.1
142.5°	503.1	507.8	509.5	515.4	515.3
145°	524.5	528.5	531.9	535.2	535.1
147.5°	544.0	549.1	551.4	553.0	552.1
150°	564.1	567.5	569.8	571.5	569.8
152.5°	581.8	585.3	588.2	590.5	588.2
155°	599.6	601.4	603.1	605.9	604.2
157.5°	615.1	616.3	617.4	621.4	618.6
160°	628.9	630.0	630.6	634.1	631.8
162.5°	641.5	641.5	642.1	646.1	643.2
165°	652.4	651.9	651.9	655.9	653.0
167.5°	662.2	660.5	660.5	664.5	661.6
170°	669.6	667.9	667.3	671.4	667.9
172.5°	674.8	673.1	672.5	676.5	673.1
175°	678.8	677.1	676.0	680.0	676.5
177.5°	681.1	679.4	678.2	681.7	678.2
180°	680.0	680.0	680.0	680.0	680.0

(END OF REPORT)