

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: P1009560

Luminaire Tested: S122DIP-B865D530UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009560
REPORT IS A COMBINATION OF REPORTS P984894 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D530UB50-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

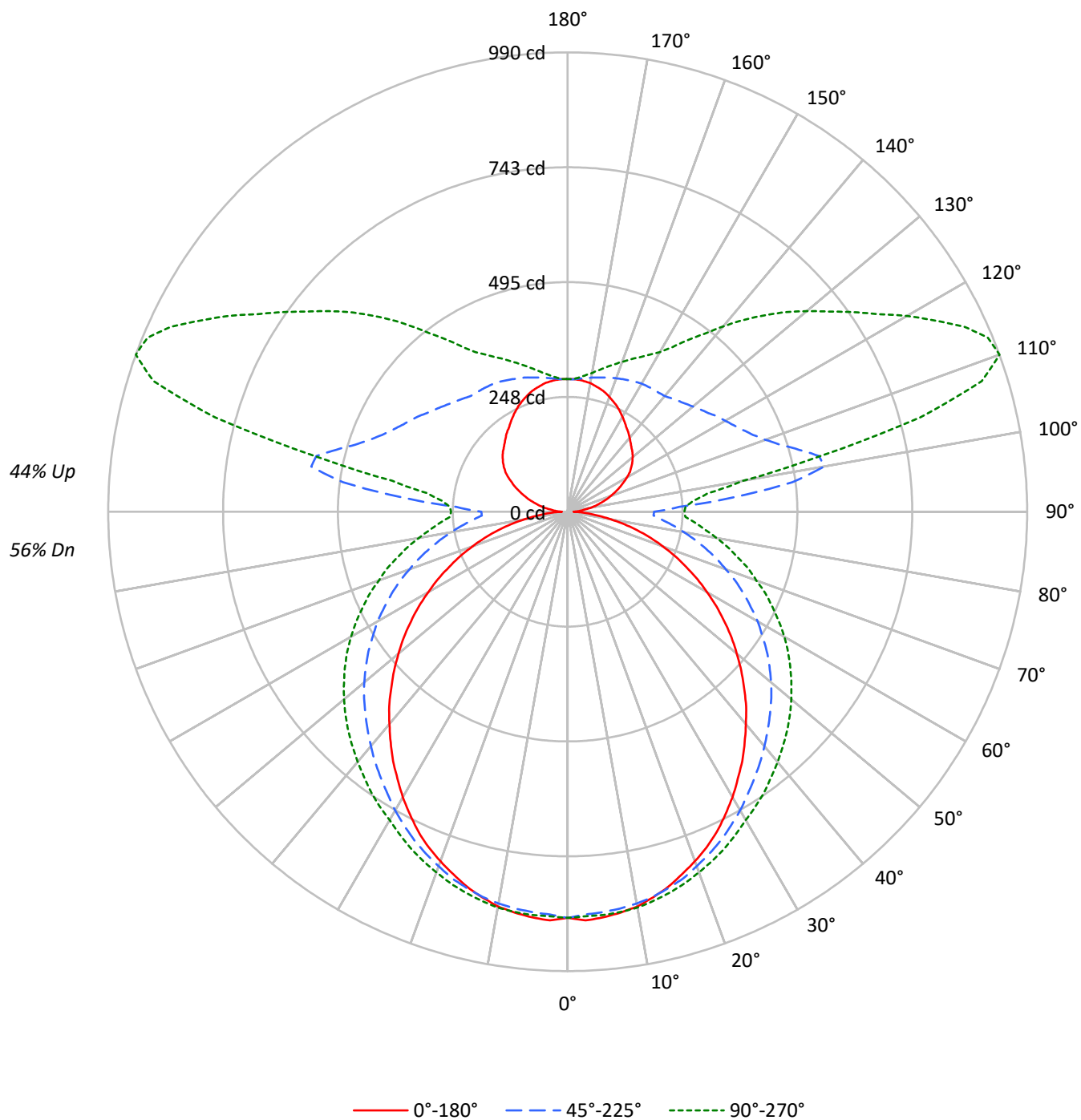
Lumens per Lamp: N/A
Luminaire Lumens: 5333.3 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 62.2
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

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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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	97	92	88	84	90	86	82	78	73	70	68	62	60	58	52	50	48
2	88	80	73	67	81	74	68	63	63	59	55	53	50	47	44	42	40
3	80	69	61	55	74	65	57	52	55	50	45	47	43	39	39	36	33
4	73	61	53	46	67	57	49	43	49	43	38	41	37	33	34	31	28
5	67	54	46	39	61	51	43	37	43	37	33	37	32	28	31	27	24
6	61	49	40	34	57	45	38	32	39	33	28	33	28	25	28	24	21
7	57	44	35	29	52	41	33	28	35	29	25	30	25	22	25	21	19
8	53	40	32	26	49	37	30	25	32	26	22	28	23	19	23	19	16
9	49	36	28	23	45	34	27	22	29	24	19	25	21	17	21	18	15
10	46	33	26	21	42	31	24	20	27	21	17	23	19	15	20	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13852	13852	13852
5°	13914	13261	13185
10°	13822	12801	12614
15°	13625	12327	12029
20°	13380	11827	11473
25°	13136	11349	10969
30°	12796	10864	10469
35°	12453	10396	10102
40°	12089	9992	9738
45°	11743	9625	9421
50°	11373	9287	9106
55°	10984	8927	8787
60°	10505	8554	8452
65°	10007	8122	8066
70°	9445	7660	7651
75°	8727	7199	7258
80°	7593	6717	6851
85°	6455	6266	6502

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11743 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	1.6
10°-20°	237.9	4.5
20°-30°	360.5	6.8
30°-40°	439.0	8.2
40°-50°	472.3	8.9
50°-60°	458.7	8.6
60°-70°	400.6	7.5
70°-80°	308.3	5.8
80°-90°	208.3	3.9
90°-100°	258.3	4.8
100°-110°	495.7	9.3
110°-120°	480.4	9.0
120°-130°	376.8	7.1
130°-140°	288.1	5.4
140°-150°	208.2	3.9
150°-160°	144.5	2.7
160°-170°	85.1	1.6
170°-180°	27.7	0.5
0°-30°	681.4	12.8
0°-40°	1120.4	21.0
0°-60°	2051.4	38.5
0°-90°	2968.6	55.7
90°-120°	1234.4	23.1
90°-150°	2107.5	39.5
90°-180°	2365.0	44.3
0°-180°	5333.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	878	874	866	874	872	83
15°	837	840	840	851	850	236
25°	761	770	781	796	800	350
35°	656	677	701	729	738	410
45°	538	572	616	656	668	415
55°	412	458	524	569	586	369
65°	282	344	418	470	487	280
75°	156	227	308	363	379	165
85°	46	124	206	259	276	48
90°	13	94	186	236	252	10
95°	29	117	361	275	272	28
105°	73	144	516	881	787	78
115°	123	168	417	817	943	122
125°	167	198	371	647	750	149
135°	195	232	338	519	599	151
145°	221	254	322	407	452	139
155°	251	271	313	354	368	116
165°	274	282	300	318	323	77
175°	285	286	288	292	291	27
180°	286	286	286	286	286	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.1	875.1	875.1	875.1	875.1
2.5°	881.4	877.6	868.7	875.1	872.5
5°	877.6	873.8	866.2	873.8	872.5
7.5°	871.3	868.7	862.4	871.3	870.0
10°	863.7	861.1	857.3	867.5	866.2
12.5°	851.0	852.3	849.7	859.9	858.6
15°	837.0	839.6	839.6	851.0	849.7
17.5°	819.3	824.4	828.2	839.6	839.6
20°	801.5	807.9	812.9	826.9	826.9
22.5°	782.5	790.1	797.7	811.7	814.2
25°	760.9	769.8	781.2	796.5	800.3
27.5°	735.6	749.5	762.2	781.2	783.8
30°	710.2	726.7	743.2	763.5	767.3
32.5°	682.3	701.3	721.6	745.7	753.3
35°	655.7	677.2	701.3	729.2	738.1
37.5°	626.5	650.6	681.0	711.5	720.4
40°	597.3	625.2	659.5	692.5	703.9
42.5°	569.4	597.3	637.9	674.7	686.1
45°	537.7	572.0	616.4	655.7	668.4
47.5°	507.3	544.1	594.8	635.4	649.3
50°	475.6	514.9	572.0	615.1	629.0
52.5°	445.1	487.0	547.9	592.3	607.5
55°	412.2	457.8	523.8	569.4	585.9
57.5°	380.5	431.2	497.1	546.6	563.1
60°	346.2	400.8	473.1	521.2	539.0
62.5°	315.8	372.9	445.1	497.1	513.6
65°	281.5	343.7	418.5	470.5	487.0
67.5°	251.1	315.8	391.9	443.9	461.6
70°	218.1	284.1	362.7	417.2	432.5
72.5°	187.7	256.2	336.1	389.3	408.4
75°	156.0	227.0	308.2	362.7	379.2
77.5°	125.6	199.1	281.5	336.1	353.8
80°	95.1	172.5	254.9	308.2	325.9
82.5°	69.8	145.8	229.6	282.8	299.3
85°	45.7	124.3	205.5	258.7	276.5
87.5°	27.9	104.0	185.2	237.2	253.6
90°	13.2	93.6	186.1	236.0	251.5
92.5°	19.6	104.7	240.6	244.5	254.2
95°	29.3	117.1	361.2	275.4	272.0
97.5°	37.5	125.8	488.2	347.1	304.1
100°	51.2	132.2	561.0	498.8	384.4
102.5°	62.6	138.5	554.8	713.2	561.2
105°	73.3	144.2	516.3	881.4	786.8
107.5°	86.5	150.0	480.0	935.8	935.5
110°	98.5	156.0	453.7	915.2	990.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110.6	162.8	432.7	870.8	980.1
115°	123.3	168.2	416.8	817.3	943.1
117.5°	135.1	175.0	403.5	767.0	892.2
120°	147.2	181.5	392.1	719.7	844.4
122.5°	158.8	189.5	382.3	682.0	792.4
125°	167.4	197.6	370.6	647.0	749.9
127.5°	175.6	206.6	361.4	614.6	708.4
130°	182.8	215.6	352.7	583.2	672.5
132.5°	189.4	224.4	344.5	551.0	636.7
135°	194.7	232.1	337.7	519.3	598.6
137.5°	200.8	238.8	331.3	487.3	560.5
140°	207.9	243.4	325.6	458.1	521.2
142.5°	215.1	248.4	323.1	431.0	483.2
145°	220.9	253.9	322.0	407.4	451.5
147.5°	228.6	258.3	320.4	387.1	421.1
150°	236.3	262.6	318.8	373.8	397.3
152.5°	244.0	267.1	316.0	363.5	381.4
155°	251.2	271.2	312.7	353.6	367.7
157.5°	257.2	274.5	309.4	344.3	355.6
160°	263.2	277.8	306.1	335.0	344.0
162.5°	269.3	280.3	303.4	326.2	333.0
165°	273.7	282.0	299.5	317.7	322.6
167.5°	277.5	283.6	296.2	310.0	312.7
170°	281.4	284.4	293.5	302.8	303.9
172.5°	283.6	285.2	290.2	296.5	296.8
175°	285.2	285.5	288.0	291.6	290.7
177.5°	286.3	285.8	285.8	288.0	286.3
180°	285.8	285.8	285.8	285.8	285.8

(END OF REPORT)