

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: P1009515

Luminaire Tested: S122DIP-B865D330UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009515
REPORT IS A COMBINATION OF REPORTS P984834 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D330UB50-4F0-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

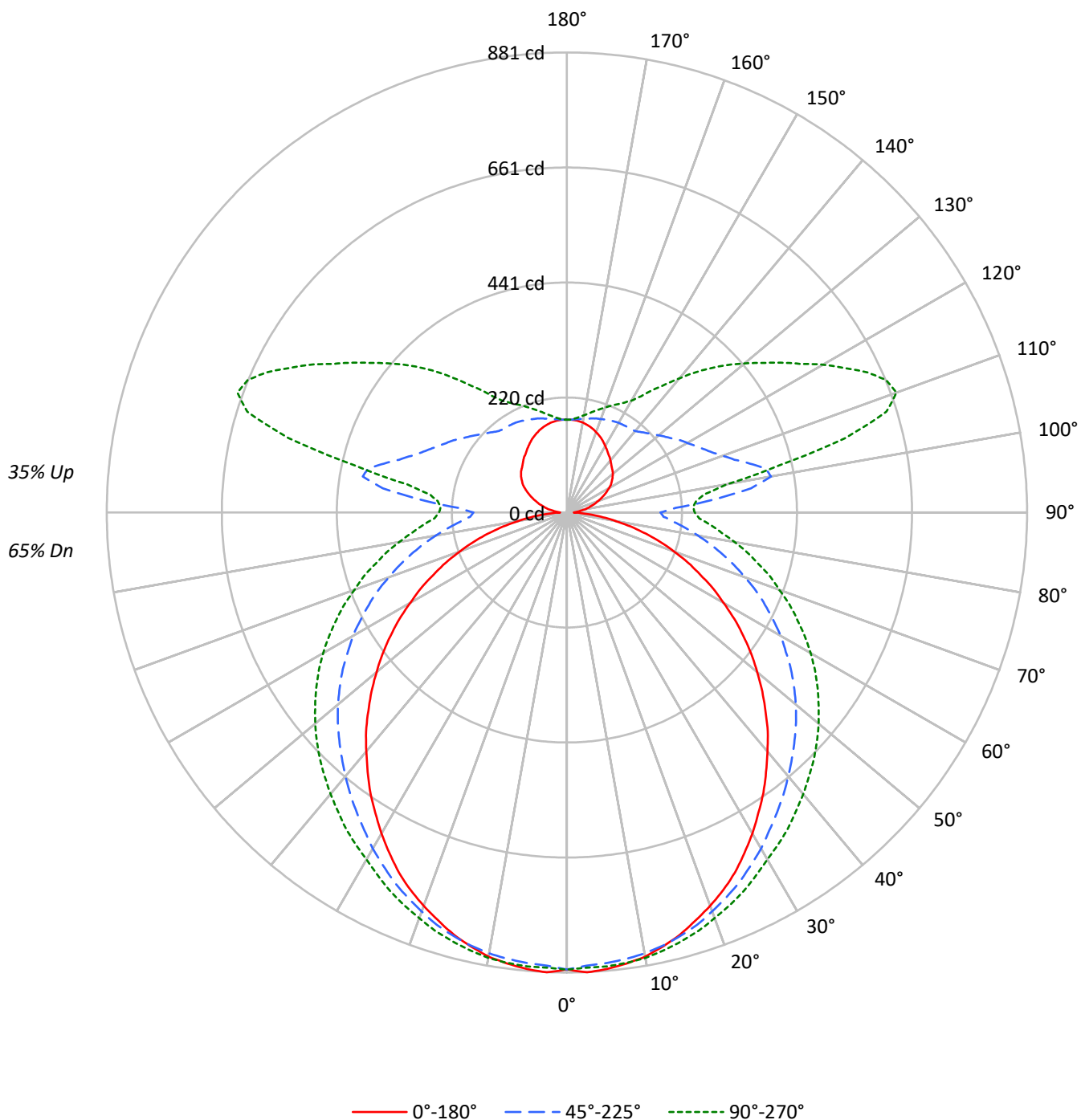
Lumens per Lamp: N/A
Luminaire Lumens: 4579.4 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	99	94	89	85	93	88	84	80	77	74	71	68	65	63	59	57	55
2	90	81	74	68	84	76	70	64	67	62	58	58	54	51	50	47	45
3	81	71	62	56	76	66	59	53	58	52	48	51	46	42	44	40	37
4	74	62	53	47	69	58	50	44	51	45	40	45	40	36	39	35	32
5	68	55	46	40	63	52	44	38	46	39	34	40	35	31	35	31	27
6	62	49	41	34	58	47	39	33	41	35	30	36	31	27	32	27	24
7	58	44	36	30	54	42	34	29	37	31	26	33	28	24	29	24	21
8	54	40	32	26	50	38	31	25	34	28	23	30	25	21	26	22	19
9	50	37	29	23	47	35	28	23	31	25	21	28	22	19	24	20	17
10	47	34	26	21	44	32	25	20	29	23	19	26	20	17	23	18	15

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	1.8
10°-20°	237.9	5.2
20°-30°	360.5	7.9
30°-40°	439.0	9.6
40°-50°	472.3	10.3
50°-60°	458.7	10.0
60°-70°	400.6	8.7
70°-80°	308.3	6.7
80°-90°	207.6	4.5
90°-100°	214.5	4.7
100°-110°	347.6	7.6
110°-120°	324.7	7.1
120°-130°	248.8	5.4
130°-140°	185.3	4.0
140°-150°	130.5	2.9
150°-160°	89.9	2.0
160°-170°	52.9	1.2
170°-180°	17.2	0.4
0°-30°	681.4	14.9
0°-40°	1120.4	24.5
0°-60°	2051.4	44.8
0°-90°	2967.9	64.8
90°-120°	886.9	19.4
90°-150°	1451.5	31.7
90°-180°	1612.0	35.2
0°-180°	4579.4	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	91	179	229	245	10
95°	22	99	280	245	248	20
105°	48	106	362	606	553	52
115°	79	112	288	552	635	77
125°	105	124	247	432	500	94
135°	122	145	215	338	392	94
145°	137	158	200	256	286	87
155°	156	169	194	220	229	72
165°	170	175	186	198	201	48
175°	177	178	179	181	181	17
180°	178	178	178	178	178	

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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°	13.0	90.8	179.0	229.2	244.7
92.5°	16.5	94.8	208.6	229.8	241.6
95°	22.1	99.2	279.8	244.6	248.3
97.5°	26.7	102.2	355.4	285.4	264.4
100°	35.2	103.3	396.8	375.9	310.1
102.5°	41.8	104.9	389.7	505.4	416.2
105°	48.0	106.0	362.4	606.2	552.6
107.5°	56.2	107.2	336.4	636.2	641.3
110°	63.2	108.6	317.2	619.6	671.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	70.7	110.8	300.8	588.7	661.9
115°	78.6	111.8	288.0	551.5	635.0
117.5°	85.5	114.2	276.4	516.8	599.5
120°	93.0	116.2	266.4	483.6	566.5
122.5°	100.2	119.8	257.4	456.7	529.8
125°	105.0	123.8	246.8	431.7	500.0
127.5°	110.2	129.0	238.2	407.6	470.3
130°	114.6	134.6	229.9	384.8	444.2
132.5°	118.7	140.1	222.0	361.4	418.5
135°	121.6	144.9	215.3	338.4	391.5
137.5°	125.4	149.0	208.9	315.0	364.0
140°	129.8	151.4	203.5	293.5	335.7
142.5°	134.3	154.5	201.0	273.8	308.7
145°	137.4	158.0	200.3	256.2	286.1
147.5°	142.2	160.6	199.3	241.2	263.9
150°	147.0	163.4	198.3	232.4	247.1
152.5°	151.8	166.2	196.6	226.2	237.2
155°	156.2	168.7	194.5	220.0	228.7
157.5°	160.0	170.8	192.4	214.2	221.2
160°	163.7	172.8	190.4	208.3	214.0
162.5°	167.5	174.4	188.7	202.8	207.1
165°	170.2	175.4	186.3	197.6	200.7
167.5°	172.6	176.4	184.2	192.8	194.5
170°	175.0	176.9	182.5	188.4	189.0
172.5°	176.4	177.4	180.5	184.4	184.6
175°	177.4	177.6	179.1	181.4	180.8
177.5°	178.1	177.8	177.8	179.1	178.1
180°	177.8	177.8	177.8	177.8	177.8

(END OF REPORT)