

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: P1009558

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009558
REPORT IS A COMBINATION OF REPORTS P984892 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-D
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

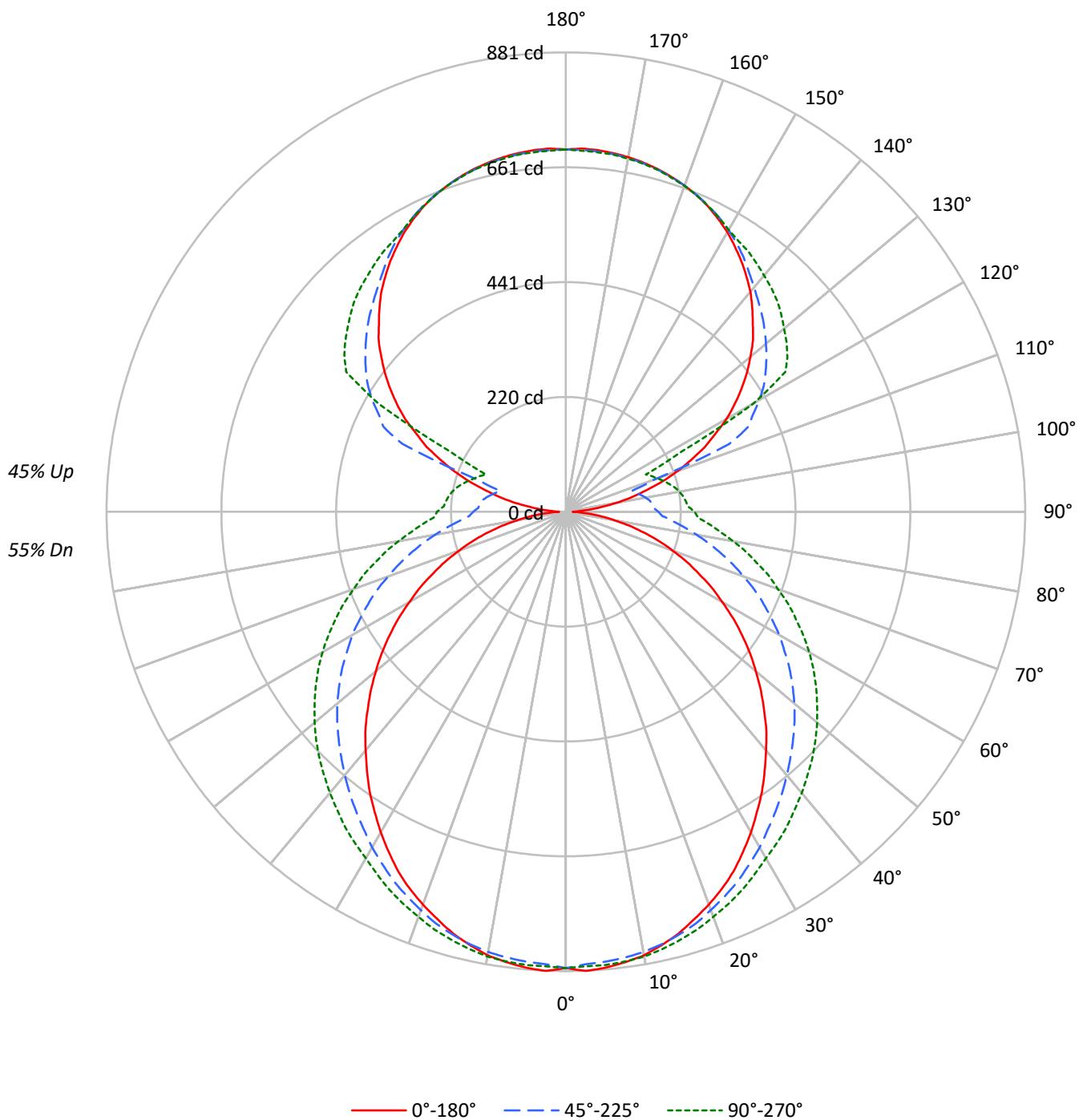
Lumens per Lamp: N/A
Luminaire Lumens: 5377.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	67	62	60	57	51	50	48
2	88	80	73	67	81	74	68	63	63	59	55	53	50	47	44	42	39
3	80	69	61	55	74	64	57	52	55	50	45	47	42	39	39	35	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	50	43	37	43	37	32	37	32	28	31	27	24
6	61	49	40	34	57	45	37	32	39	33	28	33	28	24	28	24	21
7	57	44	35	29	52	41	33	28	35	29	25	30	25	21	25	21	18
8	53	40	32	26	49	37	30	25	32	26	22	27	23	19	23	19	16
9	49	36	28	23	45	34	27	22	29	24	19	25	20	17	21	17	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	1.5
10°-20°	237.9	4.4
20°-30°	360.5	6.7
30°-40°	439.0	8.2
40°-50°	472.3	8.8
50°-60°	458.7	8.5
60°-70°	400.6	7.4
70°-80°	308.3	5.7
80°-90°	207.7	3.9
90°-100°	165.4	3.1
100°-110°	189.5	3.5
110°-120°	295.2	5.5
120°-130°	413.9	7.7
130°-140°	415.1	7.7
140°-150°	373.6	6.9
150°-160°	298.2	5.5
160°-170°	192.1	3.6
170°-180°	66.1	1.2
0°-30°	681.4	12.7
0°-40°	1120.4	20.8
0°-60°	2051.4	38.2
0°-90°	2968.0	55.2
90°-120°	650.0	12.1
90°-150°	1852.6	34.5
90°-180°	2409.0	44.8
0°-180°	5377.0	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	92	178	231	247	11
95°	43	86	165	216	231	47
105°	159	211	140	190	206	170
115°	294	317	386	192	169	289
125°	411	418	468	506	519	367
135°	507	515	532	564	573	392
145°	587	586	595	606	610	367
155°	646	642	648	650	646	298
165°	681	678	679	683	679	192
175°	696	693	694	697	692	66
180°	695	695	695	695	695	

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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	92.2	177.5	230.7	247.0
92.5°	24.0	89.2	168.1	218.6	234.3
95°	42.8	85.9	165.4	216.1	230.9
97.5°	67.7	81.0	162.6	211.0	226.7
100°	97.9	75.9	155.5	206.4	221.4
102.5°	129.8	170.7	147.6	198.8	214.3
105°	159.1	211.0	139.8	189.7	205.6
107.5°	194.8	237.9	131.9	180.5	196.5
110°	227.8	263.7	180.6	170.9	186.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.0	289.3	339.1	163.0	178.4
115°	294.2	316.6	386.3	191.5	169.3
117.5°	322.5	342.8	404.5	370.7	251.6
120°	355.7	368.3	428.1	469.6	415.8
122.5°	383.9	393.2	450.2	487.4	499.4
125°	411.2	417.7	467.9	505.7	518.6
127.5°	437.4	443.2	484.9	521.7	533.6
130°	462.0	468.8	501.0	536.9	546.6
132.5°	487.1	492.5	517.0	550.7	560.3
135°	507.0	515.1	532.3	563.9	573.0
137.5°	529.2	535.2	546.5	575.6	583.0
140°	550.8	553.5	561.5	586.3	591.4
142.5°	568.9	571.1	577.6	596.8	600.7
145°	586.7	586.2	594.7	605.8	609.7
147.5°	603.3	601.8	610.3	614.1	615.9
150°	619.3	615.8	623.9	626.9	624.4
152.5°	632.9	628.9	636.4	639.5	635.9
155°	646.0	641.5	647.5	650.5	646.5
157.5°	656.5	652.5	657.1	660.6	656.5
160°	665.6	662.6	665.6	668.6	665.1
162.5°	673.6	670.6	673.1	676.7	672.1
165°	680.7	677.7	679.2	682.7	679.2
167.5°	686.2	683.2	684.7	688.2	683.7
170°	690.7	687.7	688.7	692.2	687.7
172.5°	693.7	690.7	691.7	695.3	690.7
175°	696.3	692.7	693.7	697.3	692.2
177.5°	697.3	693.7	694.3	697.8	693.2
180°	694.8	694.8	694.8	694.8	694.8

(END OF REPORT)