

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: P1008254

Luminaire Tested: S122DIP-B865D530UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008254
REPORT IS A COMBINATION OF REPORTS P984852 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D530UB2750-4F0-XX-W2A-D_2700K
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

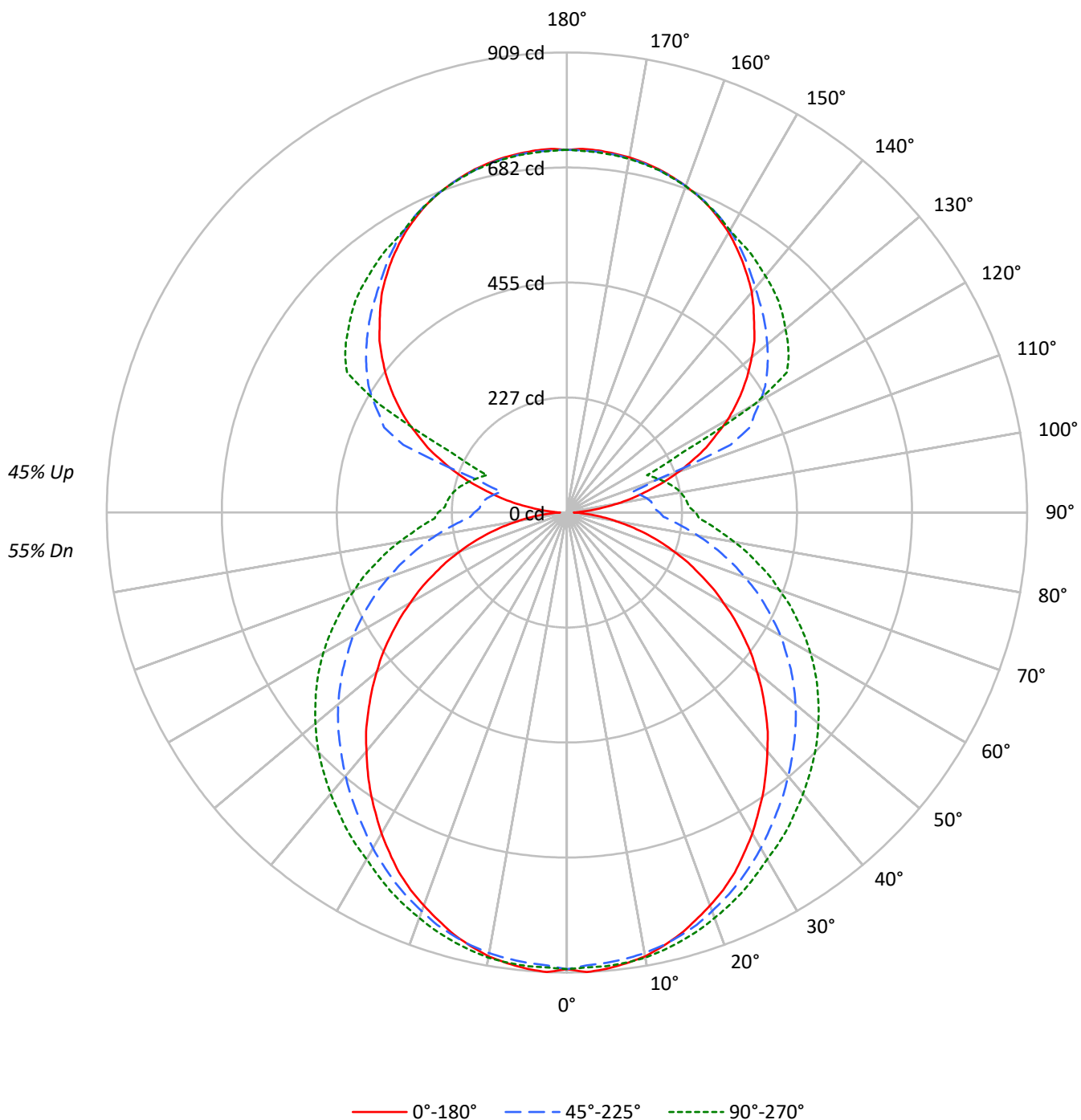
Lumens per Lamp: N/A
Luminaire Lumens: 5545.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 62.2
Input Voltage (V): 120
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°	14283	14283	14283
5°	14349	13674	13596
10°	14252	13200	13008
15°	14050	12710	12404
20°	13797	12196	11829
25°	13546	11704	11310
30°	13195	11202	10795
35°	12840	10720	10417
40°	12465	10303	10041
45°	12110	9925	9714
50°	11727	9576	9390
55°	11325	9205	9062
60°	10833	8819	8716
65°	10320	8376	8318
70°	9740	7899	7888
75°	9001	7423	7484
80°	7832	6928	7066
85°	6653	6461	6704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12110 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.5
10°-20°	245.3	4.4
20°-30°	371.7	6.7
30°-40°	452.7	8.2
40°-50°	487.0	8.8
50°-60°	473.0	8.5
60°-70°	413.1	7.4
70°-80°	317.9	5.7
80°-90°	214.2	3.9
90°-100°	170.5	3.1
100°-110°	195.4	3.5
110°-120°	304.4	5.5
120°-130°	426.9	7.7
130°-140°	428.1	7.7
140°-150°	385.3	6.9
150°-160°	307.5	5.5
160°-170°	198.2	3.6
170°-180°	68.2	1.2
0°-30°	702.6	12.7
0°-40°	1155.3	20.8
0°-60°	2115.3	38.1
0°-90°	3060.4	55.2
90°-120°	670.3	12.1
90°-150°	1910.7	34.5
90°-180°	2485.0	44.8
0°-180°	5545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	905	901	893	901	900	86
15°	863	866	866	878	876	243
25°	785	794	806	821	825	361
35°	676	698	723	752	761	423
45°	554	590	636	676	689	428
55°	425	472	540	587	604	380
65°	290	354	432	485	502	288
75°	161	234	318	374	391	170
85°	47	128	212	267	285	50
90°	14	95	183	238	255	11
95°	44	88	171	223	238	48
105°	164	218	144	196	212	176
115°	303	327	398	198	175	298
125°	424	431	483	522	535	379
135°	523	531	549	582	591	404
145°	605	605	613	625	629	379
155°	666	662	668	671	667	307
165°	702	699	700	704	700	198
175°	718	714	716	719	714	68
180°	717	717	717	717	717	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.3	902.3	902.3	902.3	902.3
2.5°	908.9	905.0	895.8	902.3	899.7
5°	905.0	901.0	893.2	901.0	899.7
7.5°	898.4	895.8	889.3	898.4	897.1
10°	890.6	888.0	884.0	894.5	893.2
12.5°	877.5	878.8	876.2	886.6	885.3
15°	863.1	865.7	865.7	877.5	876.2
17.5°	844.8	850.0	854.0	865.7	865.7
20°	826.5	833.0	838.3	852.6	852.6
22.5°	806.9	814.7	822.6	836.9	839.6
25°	784.6	793.8	805.6	821.3	825.2
27.5°	758.5	772.9	785.9	805.6	808.2
30°	732.3	749.3	766.3	787.3	791.2
32.5°	703.6	723.2	744.1	768.9	776.8
35°	676.1	698.3	723.2	751.9	761.1
37.5°	646.0	670.9	702.3	733.6	742.8
40°	615.9	644.7	680.0	714.0	725.8
42.5°	587.2	615.9	657.8	695.7	707.5
45°	554.5	589.8	635.6	676.1	689.2
47.5°	523.1	561.0	613.3	655.2	669.6
50°	490.4	530.9	589.8	634.3	648.6
52.5°	459.0	502.2	564.9	610.7	626.4
55°	425.0	472.1	540.1	587.2	604.2
57.5°	392.3	444.6	512.6	563.6	580.6
60°	357.0	413.2	487.8	537.5	555.8
62.5°	325.6	384.5	459.0	512.6	529.6
65°	290.3	354.4	431.6	485.2	502.2
67.5°	258.9	325.6	404.1	457.7	476.0
70°	224.9	292.9	374.0	430.2	445.9
72.5°	193.5	264.2	346.5	401.5	421.1
75°	160.9	234.1	317.8	374.0	391.0
77.5°	129.5	205.3	290.3	346.5	364.9
80°	98.1	177.9	262.9	317.8	336.1
82.5°	71.9	150.4	236.7	291.6	308.6
85°	47.1	128.2	211.9	266.8	285.1
87.5°	28.8	107.2	190.9	244.5	261.5
90°	13.6	95.1	183.0	237.9	254.6
92.5°	24.8	92.0	173.3	225.4	241.5
95°	44.2	88.5	170.6	222.9	238.1
97.5°	69.9	83.5	167.6	217.6	233.8
100°	101.0	78.2	160.4	212.9	228.2
102.5°	133.8	176.0	152.2	205.0	221.0
105°	164.1	217.7	144.1	195.5	212.0
107.5°	200.9	245.3	136.0	186.2	202.6
110°	234.9	272.0	186.2	176.2	192.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	268.1	298.4	349.7	168.1	184.0
115°	303.3	326.6	398.4	197.5	174.6
117.5°	332.6	353.5	417.2	382.3	259.5
120°	366.9	379.9	441.6	484.4	428.8
122.5°	395.9	405.5	464.3	502.7	515.0
125°	424.1	430.9	482.6	521.6	534.8
127.5°	451.1	457.1	500.1	538.0	550.3
130°	476.5	483.5	516.7	553.8	563.7
132.5°	502.4	507.9	533.2	567.9	577.9
135°	522.9	531.2	549.0	581.6	591.0
137.5°	545.7	552.0	563.6	593.7	601.3
140°	568.0	570.9	579.2	604.7	610.1
142.5°	586.7	589.0	595.8	615.6	619.5
145°	605.1	604.6	613.4	624.8	628.8
147.5°	622.2	620.6	629.5	633.4	635.2
150°	638.8	635.2	643.5	646.6	644.0
152.5°	652.8	648.6	656.4	659.5	655.9
155°	666.3	661.6	667.8	670.9	666.8
157.5°	677.2	673.0	677.7	681.3	677.2
160°	686.5	683.4	686.5	689.6	686.0
162.5°	694.8	691.7	694.3	697.9	693.2
165°	702.1	698.9	700.5	704.1	700.5
167.5°	707.8	704.6	706.2	709.8	705.2
170°	712.4	709.3	710.4	714.0	709.3
172.5°	715.5	712.4	713.5	717.1	712.4
175°	718.1	714.5	715.5	719.2	714.0
177.5°	719.2	715.5	716.1	719.7	715.0
180°	716.6	716.6	716.6	716.6	716.6

(END OF REPORT)