

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: P1009523

Luminaire Tested: S122DIP-B865D530UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009523
REPORT IS A COMBINATION OF REPORTS P984842 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D530UB27-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

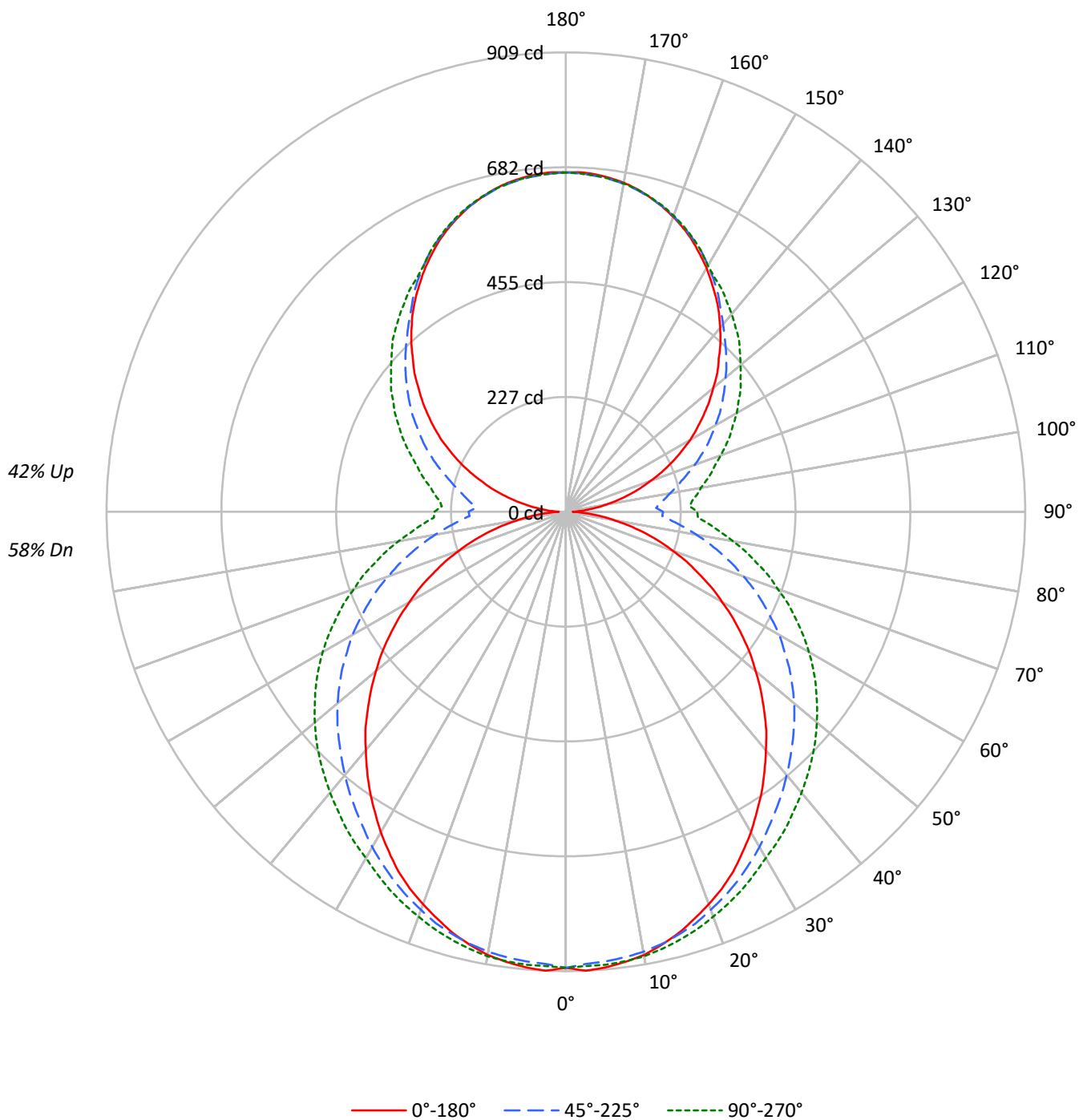
Lumens per Lamp: N/A
Luminaire Lumens: 5322.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63
1	98	93	88	84	91	86	82	79	74	71	68	63	61	59	53	51	50
2	88	80	73	67	82	74	68	63	64	59	55	54	51	48	46	43	41
3	80	70	62	55	74	65	58	52	56	50	46	48	43	40	40	37	34
4	73	61	53	46	68	57	50	44	49	43	38	42	37	34	35	32	29
5	67	54	46	39	62	51	43	37	44	38	33	38	33	29	32	28	25
6	62	49	40	34	57	46	38	32	39	33	28	34	29	25	29	25	22
7	57	44	35	30	53	41	33	28	36	30	25	31	26	22	26	22	19
8	53	40	32	26	49	37	30	25	33	26	22	28	23	20	24	20	17
9	49	36	28	23	46	34	27	22	30	24	20	26	21	17	22	18	15
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	17	14

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	1.6
10°-20°	245.3	4.6
20°-30°	371.7	7.0
30°-40°	452.7	8.5
40°-50°	487.0	9.2
50°-60°	473.0	8.9
60°-70°	413.1	7.8
70°-80°	317.9	6.0
80°-90°	214.8	4.0
90°-100°	188.4	3.5
100°-110°	239.3	4.5
110°-120°	296.8	5.6
120°-130°	336.6	6.3
130°-140°	350.1	6.6
140°-150°	329.8	6.2
150°-160°	274.3	5.2
160°-170°	182.0	3.4
170°-180°	63.6	1.2
0°-30°	702.6	13.2
0°-40°	1155.3	21.7
0°-60°	2115.3	39.7
0°-90°	3061.1	57.5
90°-120°	724.5	13.6
90°-150°	1741.0	32.7
90°-180°	2261.0	42.5
0°-180°	5322.0	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	96	192	244	260	11
95°	40	107	187	236	251	41
105°	128	168	237	284	298	136
115°	232	250	307	346	359	229
125°	332	337	378	411	422	297
135°	428	434	448	475	484	331
145°	518	522	525	534	538	324
155°	592	594	596	598	597	273
165°	644	644	644	648	645	182
175°	670	669	667	671	668	64
180°	671	671	671	671	671	

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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°	13.7	96.3	192.4	243.6	259.9
92.5°	24.3	98.1	178.5	230.0	245.6
95°	40.0	107.0	186.7	236.4	250.9
97.5°	58.5	119.8	197.9	246.3	262.0
100°	81.2	134.0	209.0	257.4	271.1
102.5°	103.6	150.2	223.0	270.7	284.5
105°	128.3	168.0	237.1	284.0	298.4
107.5°	154.4	188.0	253.4	298.5	310.1
110°	178.0	207.6	271.7	313.5	326.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.2	229.6	289.1	329.3	342.5
115°	231.8	249.6	307.4	346.0	358.7
117.5°	257.2	272.2	324.3	361.8	373.2
120°	283.8	293.6	341.4	378.0	390.7
122.5°	308.2	315.1	360.7	394.3	405.0
125°	332.3	337.4	377.6	411.2	422.4
127.5°	357.3	362.2	395.2	425.7	435.8
130°	380.5	386.6	412.9	443.2	451.3
132.5°	406.6	410.9	431.1	458.4	467.2
135°	427.9	434.2	448.4	475.2	484.0
137.5°	452.9	458.0	465.6	489.9	496.8
140°	475.0	478.8	484.2	505.1	510.7
142.5°	497.6	501.4	503.1	519.4	523.6
145°	517.9	521.8	525.2	533.6	537.9
147.5°	537.1	542.2	544.5	546.9	548.5
150°	556.9	560.3	562.6	564.3	562.6
152.5°	574.5	577.9	580.7	583.0	580.7
155°	592.1	593.8	595.5	598.3	596.6
157.5°	607.4	608.5	609.6	613.6	610.8
160°	621.0	622.1	622.7	626.1	623.8
162.5°	633.4	633.4	634.0	638.0	635.1
165°	644.2	643.6	643.6	647.6	644.8
167.5°	653.8	652.1	652.1	656.1	653.3
170°	661.2	659.5	658.9	662.9	659.5
172.5°	666.3	664.6	664.0	668.0	664.6
175°	670.3	668.6	667.4	671.4	668.0
177.5°	672.5	670.8	669.7	673.1	669.7
180°	671.4	671.4	671.4	671.4	671.4

(END OF REPORT)