

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: P1009090

Luminaire Tested: S122DIP-B485D530UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009090
REPORT IS A COMBINATION OF REPORTS P984268 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D530UB30-4F0-XX-W2A-F
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

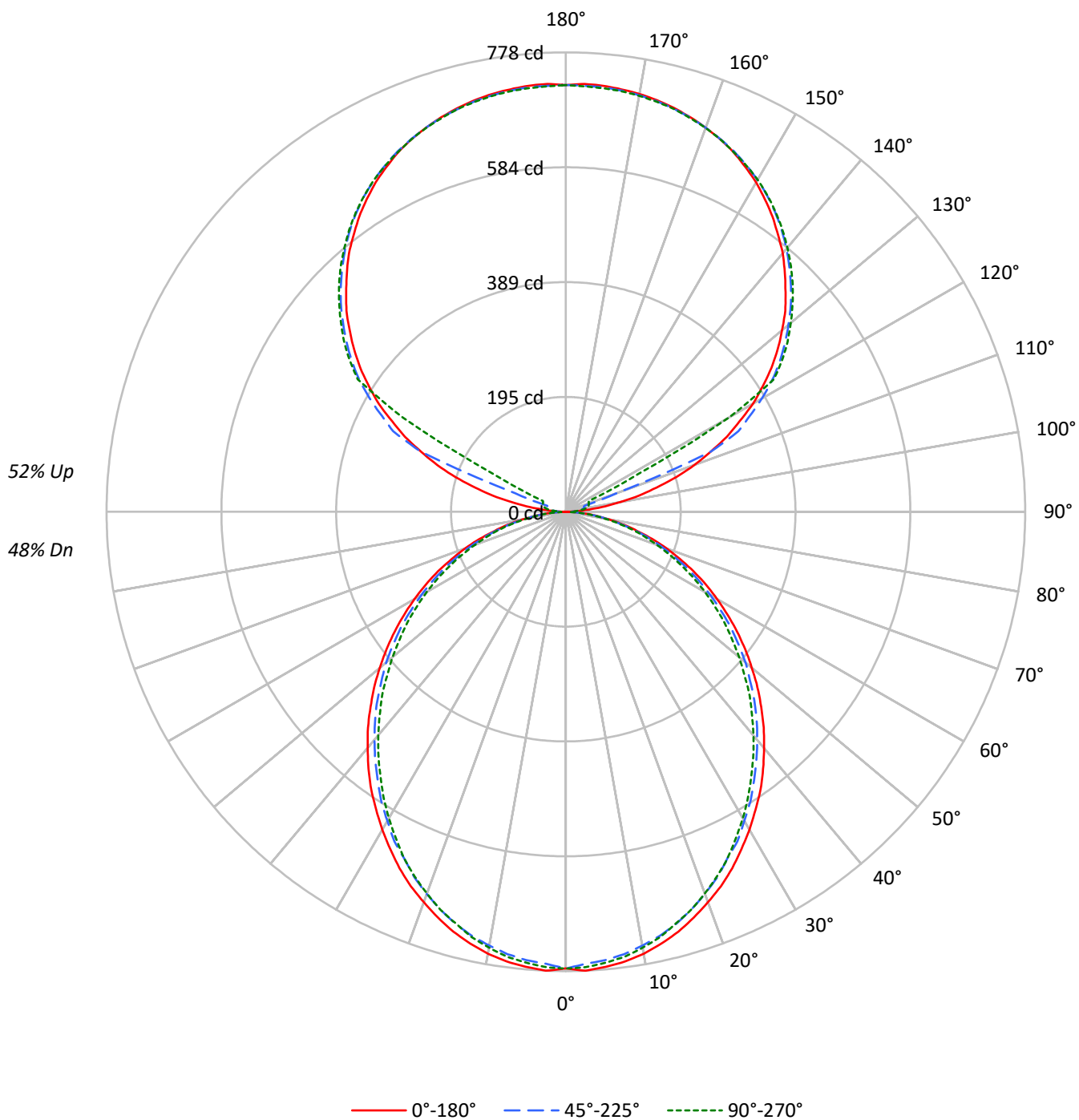
Lumens per Lamp: N/A
Luminaire Lumens: 4088.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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

TEST NUMBER: P1009090

CATALOG NUMBER: S122DIP-B485D530UB30-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1009090

CATALOG NUMBER: S122DIP-B485D530UB30-4F0-XX-W2A-F

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	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	38	35	33	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	34	31	28	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21
6	63	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17	17	17
8	54	41	34	28	49	38	32	27	33	28	24	28	24	20	23	20	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14	14	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12244	12244	12244
5°	12264	11672	11588
10°	12164	11139	10918
15°	11986	10603	10214
20°	11745	10020	9546
25°	11505	9411	8879
30°	11204	8840	8180
35°	10918	8236	7492
40°	10567	7641	6843
45°	10217	7050	6206
50°	9836	6449	5545
55°	9433	5807	4919
60°	8982	5109	4268
65°	8489	4404	3584
70°	7860	3628	2894
75°	6993	2796	2236
80°	5940	1900	1438
85°	4308	884	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10217 cd/sqm

TEST NUMBER: P1009090

CATALOG NUMBER: S122DIP-B485D530UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.8
10°-20°	204.8	5.0
20°-30°	301.0	7.4
30°-40°	349.6	8.6
40°-50°	349.2	8.5
50°-60°	304.5	7.4
60°-70°	225.1	5.5
70°-80°	127.3	3.1
80°-90°	34.9	0.9
90°-100°	23.8	0.6
100°-110°	88.8	2.2
110°-120°	235.6	5.8
120°-130°	390.8	9.6
130°-140°	415.1	10.2
140°-150°	385.8	9.4
150°-160°	310.2	7.6
160°-170°	199.9	4.9
170°-180°	68.8	1.7
0°-30°	578.7	14.2
0°-40°	928.3	22.7
0°-60°	1582.0	38.7
0°-90°	1969.3	48.2
90°-120°	348.3	8.5
90°-150°	1539.9	37.7
90°-180°	2119.0	51.8
0°-180°	4088.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	774	771	762	768	767	73
15°	736	732	722	725	722	207
25°	666	660	648	649	648	307
35°	575	568	556	551	547	359
45°	468	463	452	443	440	361
55°	354	350	341	332	328	317
65°	239	234	227	220	216	236
75°	125	124	120	115	117	133
85°	30	30	29	27	26	34
90°	0	6	10	13	14	4
95°	34	17	20	23	22	40
105°	159	175	32	38	40	170
115°	301	310	323	80	43	296
125°	425	432	442	446	447	379
135°	526	534	539	544	543	406
145°	610	610	619	622	620	382
155°	672	667	674	677	672	310
165°	708	705	706	710	706	200
175°	724	721	722	725	720	69
180°	723	723	723	723	723	

TEST NUMBER: P1009090

CATALOG NUMBER: S122DIP-B485D530UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.5	773.5	773.5	773.5	773.5
2.5°	778.0	774.3	766.1	773.5	772.0
5°	773.5	770.6	762.4	768.3	766.8
7.5°	768.3	763.9	755.7	761.6	760.1
10°	760.1	754.9	746.0	752.0	749.7
12.5°	749.0	744.5	735.6	739.3	737.8
15°	736.3	731.9	722.2	725.2	721.5
17.5°	720.7	716.3	706.6	710.3	706.6
20°	703.6	699.2	688.7	691.0	688.0
22.5°	686.5	679.8	670.2	670.2	668.7
25°	666.4	660.5	647.8	649.3	647.8
27.5°	644.1	638.9	629.2	627.0	623.3
30°	621.8	615.9	604.7	602.5	599.5
32.5°	598.0	593.5	581.6	577.2	574.2
35°	574.9	567.5	555.6	551.1	547.4
37.5°	548.9	542.2	530.3	525.1	521.4
40°	522.1	516.2	504.3	497.6	494.6
42.5°	496.1	490.2	478.3	470.8	466.4
45°	467.8	462.6	451.5	443.3	440.3
47.5°	440.3	435.1	423.2	415.0	410.6
50°	411.3	407.6	397.2	386.8	383.0
52.5°	383.0	377.8	368.2	360.0	354.8
55°	354.0	349.6	340.7	331.7	328.0
57.5°	325.0	321.3	311.6	302.7	299.7
60°	296.0	293.1	282.6	274.5	272.2
62.5°	267.8	262.6	255.1	247.7	244.7
65°	238.8	234.3	226.9	220.2	216.4
67.5°	209.0	205.3	198.6	193.4	190.4
70°	181.5	178.5	171.8	166.6	163.6
72.5°	153.2	150.2	146.5	141.3	139.1
75°	125.0	123.5	119.7	115.3	116.8
77.5°	99.7	96.7	95.2	93.0	90.7
80°	74.4	73.6	72.1	69.9	68.4
82.5°	50.6	50.6	49.8	46.9	46.9
85°	30.5	29.8	29.0	26.8	26.0
87.5°	13.4	11.9	10.4	8.2	7.4
90°	0.5	6.3	10.5	13.1	14.1
92.5°	13.1	11.0	12.6	13.6	14.1
95°	34.0	16.7	20.4	23.0	22.5
97.5°	61.2	18.3	26.7	28.2	28.8
100°	92.6	20.9	29.8	34.0	35.0
102.5°	127.1	126.0	30.9	36.6	38.2
105°	159.0	174.7	31.9	37.7	39.7
107.5°	196.1	209.2	32.9	38.7	40.8
110°	231.7	242.6	91.5	39.2	41.3

TEST NUMBER: P1009090

CATALOG NUMBER: S122DIP-B485D530UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	265.1	274.5	265.7	40.3	41.8
115°	300.7	309.6	322.7	80.5	42.9
117.5°	331.5	342.0	350.9	276.1	139.1
120°	366.1	373.9	383.3	389.6	319.0
122.5°	395.3	403.7	414.2	417.3	417.8
125°	425.2	432.0	441.9	445.5	447.1
127.5°	452.3	459.7	467.5	472.7	473.3
130°	478.0	486.3	492.1	497.8	497.3
132.5°	504.1	510.9	516.7	521.4	520.9
135°	526.1	534.4	539.2	544.4	543.3
137.5°	549.1	555.4	560.6	565.8	564.3
140°	571.6	575.8	581.5	586.2	583.6
142.5°	590.4	594.1	600.9	605.0	602.4
145°	610.3	609.8	618.6	622.3	619.7
147.5°	627.5	626.0	634.9	637.5	635.4
150°	644.3	640.6	649.0	652.1	649.5
152.5°	658.4	654.2	662.0	665.2	661.5
155°	672.0	667.3	673.6	676.7	672.5
157.5°	683.0	678.8	683.5	687.1	683.0
160°	692.4	689.2	692.4	695.5	691.9
162.5°	700.7	697.6	700.2	703.9	699.2
165°	708.1	704.9	706.5	710.2	706.5
167.5°	713.8	710.7	712.2	715.9	711.2
170°	718.5	715.4	716.4	720.1	715.4
172.5°	721.7	718.5	719.6	723.2	718.5
175°	724.3	720.6	721.7	725.3	720.1
177.5°	725.3	721.7	722.2	725.8	721.1
180°	722.7	722.7	722.7	722.7	722.7

(END OF REPORT)