

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: P1009091

Luminaire Tested: S122DIP-B485D530UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009091
REPORT IS A COMBINATION OF REPORTS P984269 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-F1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

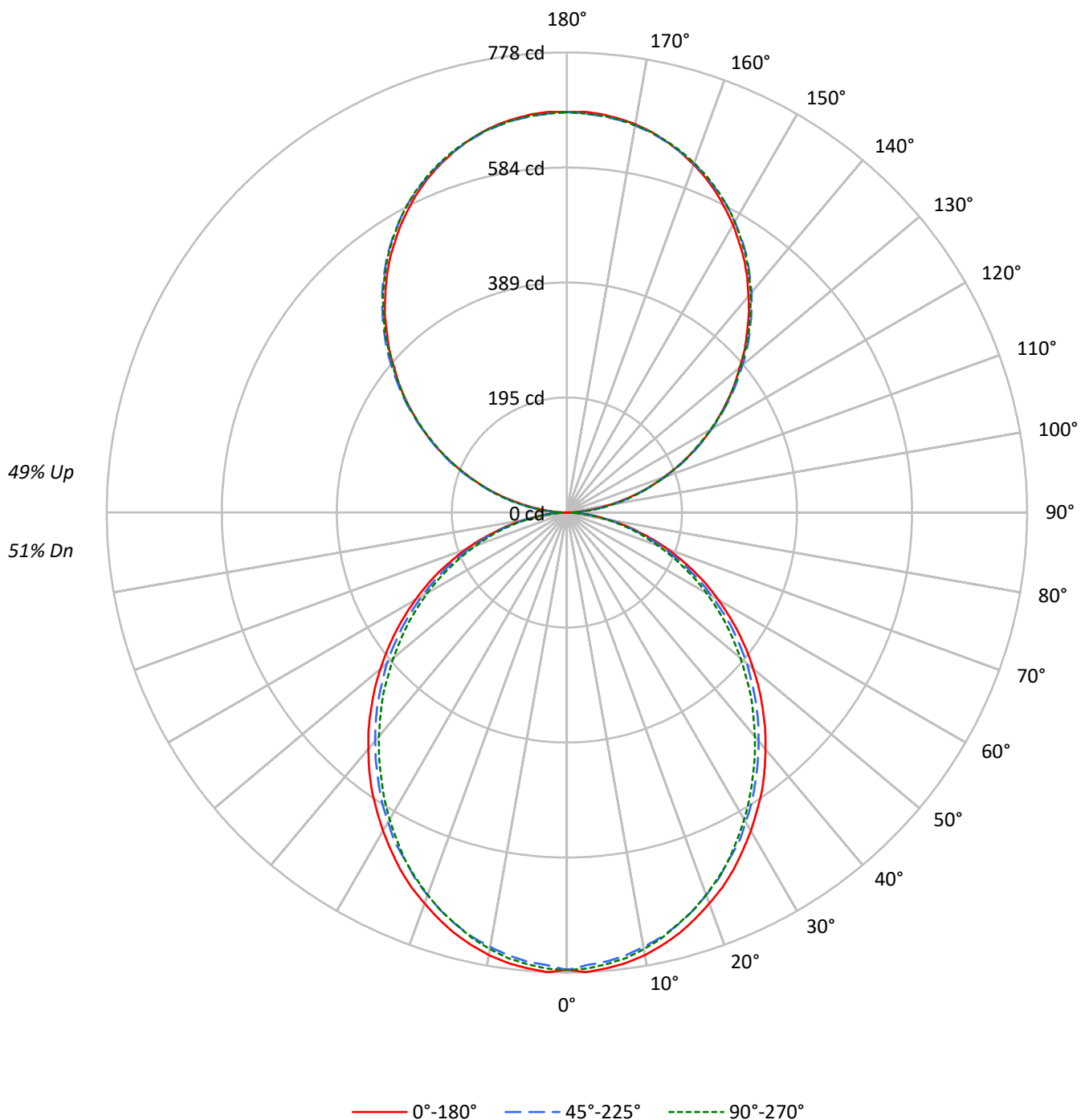
Lumens per Lamp: N/A
Luminaire Lumens: 3863.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	98	94	90	86	90	87	83	80	74	71	69	62	60	58	50	49	48
2	89	82	76	70	82	76	70	66	64	60	57	54	51	49	44	42	41
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	35
4	74	64	56	50	69	59	52	47	51	45	41	43	39	35	35	32	30
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	32	28	26
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	25	23
7	58	46	38	32	54	43	36	31	37	31	27	31	27	24	26	23	20
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.9
10°-20°	204.8	5.3
20°-30°	301.0	7.8
30°-40°	349.6	9.1
40°-50°	349.2	9.0
50°-60°	304.5	7.9
60°-70°	225.1	5.8
70°-80°	127.3	3.3
80°-90°	35.5	0.9
90°-100°	41.9	1.1
100°-110°	133.2	3.4
110°-120°	227.8	5.9
120°-130°	299.7	7.8
130°-140°	336.4	8.7
140°-150°	329.9	8.5
150°-160°	276.7	7.2
160°-170°	183.5	4.8
170°-180°	64.1	1.7
0°-30°	578.7	15.0
0°-40°	928.3	24.0
0°-60°	1582.0	41.0
0°-90°	1969.9	51.0
90°-120°	402.9	10.4
90°-150°	1368.8	35.4
90°-180°	1893.0	49.0
0°-180°	3863.0	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°	1	7	20	19	19	4
95°	30	35	37	37	35	33
105°	123	125	126	127	127	130
115°	229	232	231	230	229	226
125°	333	338	336	334	334	297
135°	430	437	438	437	435	332
145°	522	526	530	530	528	326
155°	597	599	600	603	602	275
165°	650	649	649	653	650	183
175°	676	674	673	677	674	64
180°	677	677	677	677	677	

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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°	0.6	7.4	20.0	18.9	19.4
92.5°	12.6	17.1	17.7	18.3	18.3
95°	29.7	35.4	36.6	36.6	35.4
97.5°	49.7	54.9	57.1	57.1	57.1
100°	72.6	77.1	78.9	78.9	78.3
102.5°	96.6	100.0	102.3	102.9	102.3
105°	122.9	124.6	125.7	126.9	126.9
107.5°	149.1	151.4	151.4	152.0	149.1
110°	174.3	177.7	177.7	177.7	176.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	201.7	205.1	204.6	202.8	201.7
115°	228.6	232.0	230.8	230.3	228.6
117.5°	255.4	260.0	257.1	255.4	253.7
120°	282.3	286.8	282.3	282.3	280.6
122.5°	306.8	312.6	309.7	308.0	306.8
125°	332.6	337.7	336.0	334.3	333.7
127.5°	357.7	364.0	361.7	359.4	357.7
130°	381.1	388.6	387.4	386.3	384.0
132.5°	407.4	413.1	413.7	410.8	409.1
135°	430.3	436.6	437.7	437.1	435.4
137.5°	455.4	460.5	461.7	461.1	458.8
140°	477.7	482.8	485.7	485.7	483.4
142.5°	500.5	505.7	507.4	508.0	505.7
145°	522.3	526.3	529.7	530.3	528.0
147.5°	541.7	546.8	549.1	550.3	548.0
150°	561.7	565.1	567.4	569.1	567.4
152.5°	579.4	582.8	585.7	588.0	585.7
155°	597.1	598.8	600.5	603.4	601.7
157.5°	612.5	613.7	614.8	618.8	616.0
160°	626.3	627.4	628.0	631.4	629.1
162.5°	638.8	638.8	639.4	643.4	640.5
165°	649.7	649.1	649.1	653.1	650.3
167.5°	659.4	657.7	657.7	661.7	658.8
170°	666.8	665.1	664.5	668.5	665.1
172.5°	672.0	670.3	669.7	673.7	670.3
175°	676.0	674.3	673.1	677.1	673.7
177.5°	678.3	676.5	675.4	678.8	675.4
180°	677.1	677.1	677.1	677.1	677.1

(END OF REPORT)