

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: P1010030

Luminaire Tested: S122RDIP-B485D530UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010030
REPORT IS A COMBINATION OF REPORTS P988330 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B485D530UB40-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

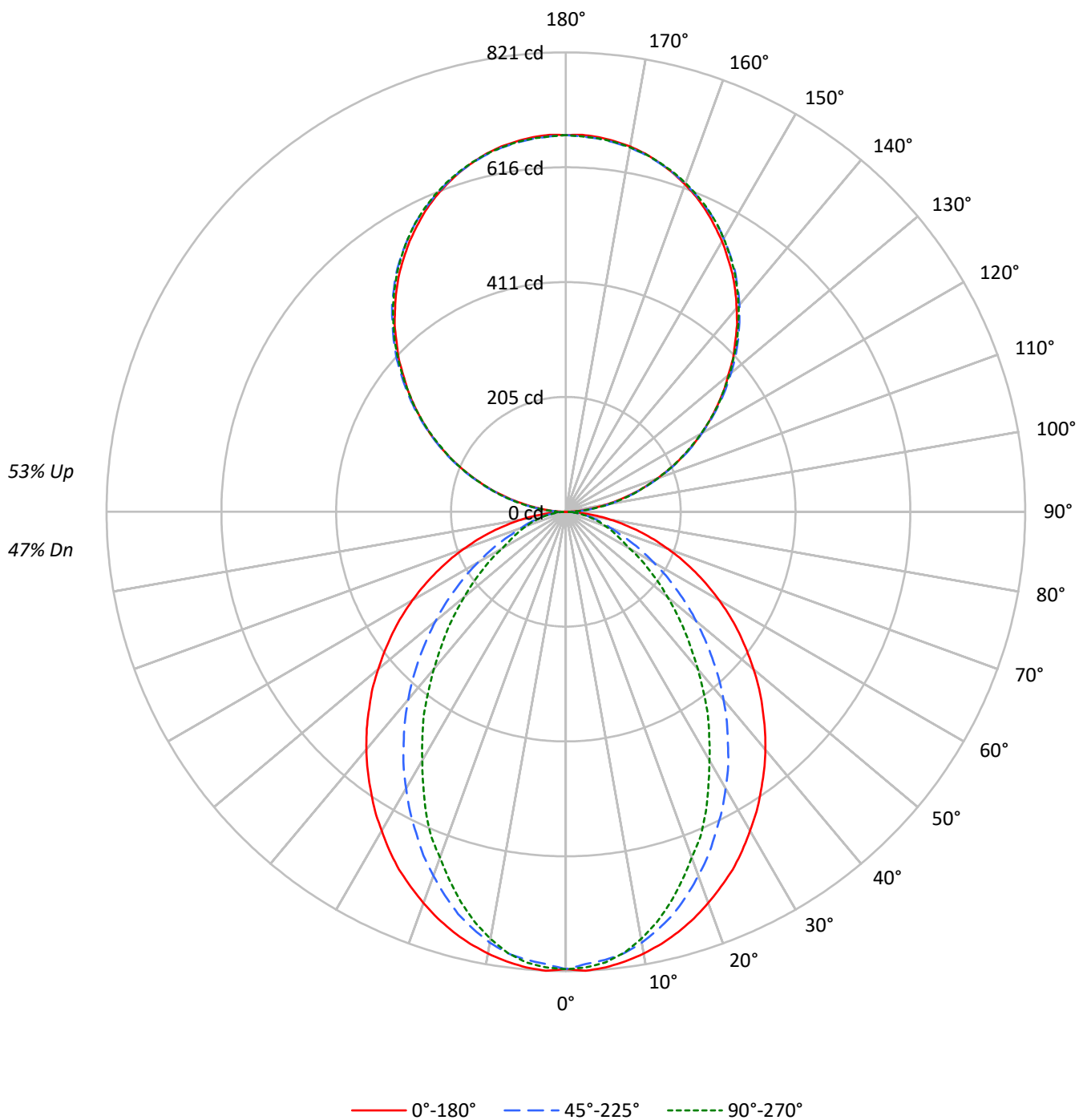
Lumens per Lamp: N/A
Luminaire Lumens: 3565.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1010030

CATALOG NUMBER: S122RDIP-B485D530UB40-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1010030

CATALOG NUMBER: S122RDIP-B485D530UB40-4F0-XX-W2A-F1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41	41	41
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	43	41	40	35	35	35
3	82	73	66	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30	30	30
4	75	65	57	51	69	60	53	48	51	46	42	42	39	36	35	32	30	26	26	26
5	69	58	50	44	63	54	47	41	46	40	36	38	34	31	31	29	26	23	23	23
6	64	52	44	38	58	48	41	36	41	36	32	35	31	28	29	26	23	20	20	20
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18	18	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	17	17	17
9	51	39	32	27	47	37	30	25	32	26	23	27	23	20	22	19	17	15	15	15
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16	14	14	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12939	12939	12939
5°	12960	12308	12218
10°	12831	11675	11289
15°	12655	10925	10231
20°	12421	10072	9124
25°	12184	9199	8111
30°	11861	8347	7004
35°	11547	7489	6054
40°	11229	6645	5076
45°	10857	5774	4223
50°	10472	4936	3437
55°	10072	4097	2730
60°	9607	3276	2065
65°	9072	2498	1678
70°	8423	1812	1334
75°	7613	1383	1020
80°	6435	936	683
85°	4492	430	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10857 cd/sqm

TEST NUMBER: P1010030

CATALOG NUMBER: S122RDIP-B485D530UB40-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	2.1
10°-20°	210.3	5.9
20°-30°	295.2	8.3
30°-40°	321.8	9.0
40°-50°	295.8	8.3
50°-60°	232.3	6.5
60°-70°	151.2	4.2
70°-80°	77.8	2.2
80°-90°	21.8	0.6
90°-100°	41.6	1.2
100°-110°	132.4	3.7
110°-120°	226.5	6.4
120°-130°	297.9	8.4
130°-140°	334.4	9.4
140°-150°	327.9	9.2
150°-160°	275.1	7.7
160°-170°	182.4	5.1
170°-180°	63.8	1.8
0°-30°	582.1	16.3
0°-40°	904.0	25.4
0°-60°	1432.1	40.2
0°-90°	1682.9	47.2
90°-120°	400.5	11.2
90°-150°	1360.8	38.2
90°-180°	1882.0	52.8
0°-180°	3565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	817	814	804	811	808	78
15°	777	769	744	730	723	219
25°	706	682	633	603	592	325
35°	608	570	505	459	442	381
45°	497	448	370	317	300	384
55°	378	320	240	196	182	338
65°	255	195	129	104	101	253
75°	136	84	59	54	53	144
85°	32	16	14	14	14	36
90°	1	7	20	19	19	3
95°	30	35	36	36	35	33
105°	122	124	125	126	126	129
115°	227	231	230	229	227	225
125°	331	336	334	332	332	295
135°	428	434	435	435	433	331
145°	519	523	527	527	525	324
155°	594	595	597	600	598	273
165°	646	645	645	649	646	182
175°	672	670	669	673	670	64
180°	673	673	673	673	673	

TEST NUMBER: P1010030

CATALOG NUMBER: S122RDIP-B485D530UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.4	817.4	817.4	817.4	817.4
2.5°	821.1	817.4	809.2	816.6	815.1
5°	817.4	813.7	804.0	810.7	808.5
7.5°	810.7	806.3	795.9	798.9	795.2
10°	801.8	796.6	781.9	779.6	775.2
12.5°	790.7	784.1	764.1	759.7	751.5
15°	777.4	769.3	744.1	730.1	722.7
17.5°	761.9	750.0	719.0	702.7	690.9
20°	744.1	729.3	692.3	673.9	657.6
22.5°	724.9	707.9	665.0	639.8	628.7
25°	705.7	682.0	633.2	602.8	591.8
27.5°	682.7	657.6	603.6	568.8	551.8
30°	658.3	630.2	571.0	533.3	513.3
32.5°	634.7	600.6	540.0	495.6	477.1
35°	608.0	570.3	505.2	458.6	442.3
37.5°	582.1	541.5	472.7	421.6	403.1
40°	554.8	510.4	438.6	386.1	366.9
42.5°	526.7	479.3	404.6	349.9	331.4
45°	497.1	447.5	369.8	317.3	299.6
47.5°	469.0	416.4	336.6	284.0	267.8
50°	437.9	385.4	304.0	253.0	237.4
52.5°	407.6	352.1	272.9	224.1	210.1
55°	378.0	320.3	240.4	196.0	182.0
57.5°	347.7	288.5	211.6	170.1	158.3
60°	316.6	257.4	181.2	143.5	131.7
62.5°	286.3	227.1	155.3	119.8	113.9
65°	255.2	195.3	128.7	103.6	101.3
67.5°	225.6	165.7	103.6	91.0	88.8
70°	194.5	136.8	85.8	78.4	75.4
72.5°	165.0	110.2	71.7	65.8	64.4
75°	136.1	84.3	59.2	54.0	53.3
77.5°	107.3	59.9	46.6	43.6	42.2
80°	80.6	42.9	35.5	32.5	32.5
82.5°	56.2	28.8	24.4	22.9	22.9
85°	31.8	16.3	14.1	14.1	14.1
87.5°	11.8	5.9	5.9	5.2	5.2
90°	0.6	7.4	19.9	18.7	19.3
92.5°	12.5	17.0	17.6	18.2	18.2
95°	29.5	35.2	36.4	36.4	35.2
97.5°	49.4	54.5	56.8	56.8	56.8
100°	72.1	76.7	78.4	78.4	77.8
102.5°	96.0	99.4	101.7	102.3	101.7
105°	122.1	123.8	125.0	126.1	126.1
107.5°	148.3	150.5	150.5	151.1	148.3
110°	173.3	176.7	176.7	176.7	175.0

TEST NUMBER: P1010030

CATALOG NUMBER: S122RDIP-B485D530UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	200.5	203.9	203.4	201.7	200.5
115°	227.2	230.6	229.5	228.9	227.2
117.5°	253.9	258.5	255.6	253.9	252.2
120°	280.6	285.2	280.6	280.6	278.9
122.5°	305.1	310.7	307.9	306.2	305.1
125°	330.6	335.7	334.0	332.3	331.8
127.5°	355.6	361.9	359.6	357.3	355.6
130°	378.9	386.3	385.2	384.0	381.8
132.5°	405.0	410.7	411.3	408.5	406.7
135°	427.8	434.0	435.2	434.6	432.9
137.5°	452.8	457.9	459.0	458.4	456.2
140°	474.9	480.0	482.9	482.9	480.6
142.5°	497.6	502.8	504.5	505.0	502.8
145°	519.2	523.2	526.6	527.2	524.9
147.5°	538.5	543.7	545.9	547.1	544.8
150°	558.4	561.8	564.1	565.8	564.1
152.5°	576.0	579.4	582.3	584.6	582.3
155°	593.6	595.4	597.1	599.9	598.2
157.5°	609.0	610.1	611.3	615.2	612.4
160°	622.6	623.8	624.3	627.7	625.5
162.5°	635.1	635.1	635.7	639.7	636.8
165°	645.9	645.3	645.3	649.3	646.5
167.5°	655.6	653.9	653.9	657.8	655.0
170°	663.0	661.3	660.7	664.7	661.3
172.5°	668.1	666.4	665.8	669.8	666.4
175°	672.0	670.3	669.2	673.2	669.8
177.5°	674.3	672.6	671.5	674.9	671.5
180°	673.2	673.2	673.2	673.2	673.2

(END OF REPORT)