

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: P1010001

Luminaire Tested: S122RDIP-B485D330UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010001
REPORT IS A COMBINATION OF REPORTS P988291 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B485D330UB40-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

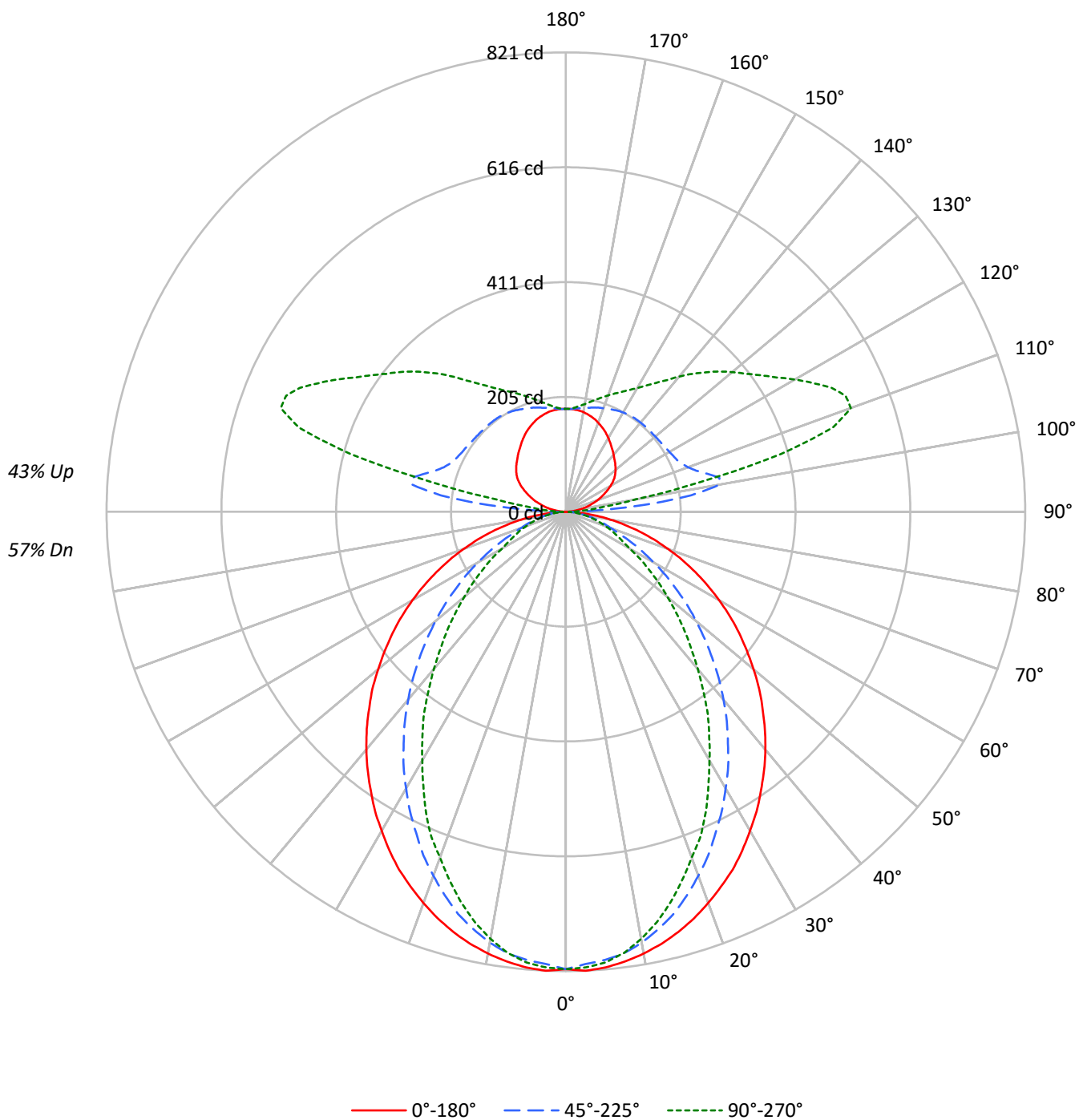
Lumens per Lamp: N/A
Luminaire Lumens: 2963.5 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 33.3
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: P1010001

CATALOG NUMBER: S122RDIP-B485D330UB40-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1010001

CATALOG NUMBER: S122RDIP-B485D330UB40-4F0-XX-W2A-F4

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	87	87	87	74	74	74	62	62	62
1	100	96	92	89	93	89	86	83	77	75	73	66	64	63	56	55	54
2	91	84	78	73	85	79	74	69	68	64	61	59	56	53	50	48	46
3	84	75	67	62	78	70	63	58	61	56	52	52	49	46	45	42	40
4	77	66	59	53	71	62	55	50	54	49	45	47	43	40	40	37	35
5	71	59	51	46	66	56	49	43	49	43	39	43	38	35	37	33	31
6	65	54	46	40	61	50	43	38	44	39	34	39	34	31	33	30	27
7	61	49	41	35	56	46	39	34	40	35	31	35	31	28	31	27	25
8	56	44	37	31	53	42	35	30	37	31	27	33	28	25	28	25	22
9	53	41	33	28	49	38	32	27	34	29	25	30	26	22	26	23	20
10	49	37	30	25	46	35	29	24	32	26	22	28	23	20	24	21	18

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: P1010001

CATALOG NUMBER: S122RDIP-B485D330UB40-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	2.6
10°-20°	210.3	7.1
20°-30°	295.2	10.0
30°-40°	321.8	10.9
40°-50°	295.8	10.0
50°-60°	232.3	7.8
60°-70°	151.2	5.1
70°-80°	77.8	2.6
80°-90°	21.1	0.7
90°-100°	74.5	2.5
100°-110°	251.9	8.5
110°-120°	264.8	8.9
120°-130°	217.7	7.3
130°-140°	174.9	5.9
140°-150°	132.2	4.5
150°-160°	92.9	3.1
160°-170°	54.7	1.8
170°-180°	17.8	0.6
0°-30°	582.1	19.6
0°-40°	904.0	30.5
0°-60°	1432.1	48.3
0°-90°	1682.2	56.8
90°-120°	591.1	19.9
90°-150°	1115.9	37.7
90°-180°	1281.0	43.2
0°-180°	2963.5	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°	0	5	12	12	12	2
95°	12	30	138	52	40	13
105°	43	65	262	468	398	46
115°	76	96	219	452	524	75
125°	106	125	211	366	425	94
135°	124	148	208	308	352	96
145°	142	163	207	257	281	89
155°	162	174	201	227	236	74
165°	176	181	193	204	208	50
175°	183	184	185	188	187	17
180°	184	184	184	184	184	

TEST NUMBER: P1010001

CATALOG NUMBER: S122RDIP-B485D330UB40-4F0-XX-W2A-F4

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°	0.4	4.8	12.0	11.5	11.7
92.5°	5.3	16.8	54.4	25.1	21.6
95°	12.4	30.4	138.5	52.3	40.3
97.5°	18.4	40.1	225.8	105.0	67.5
100°	27.2	49.2	279.2	209.0	126.5
102.5°	35.3	57.2	281.0	353.4	246.7
105°	43.1	65.0	261.9	468.1	398.3
107.5°	51.6	72.8	244.2	509.6	500.4
110°	60.1	80.8	232.2	502.9	542.1

TEST NUMBER: P1010001

CATALOG NUMBER: S122RDIP-B485D330UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	67.9	88.4	224.4	480.2	541.4
115°	76.0	96.0	219.1	452.2	524.1
117.5°	84.5	103.6	216.3	425.5	498.0
120°	92.2	111.0	213.8	401.6	472.9
122.5°	99.7	118.6	212.4	383.1	446.7
125°	106.0	125.4	210.6	366.4	425.2
127.5°	111.3	132.0	209.6	352.0	405.0
130°	115.9	137.9	208.9	337.5	388.4
132.5°	120.2	143.4	208.5	322.5	371.1
135°	124.4	148.4	208.2	307.8	352.4
137.5°	128.3	152.7	208.2	293.0	334.3
140°	132.9	156.6	207.8	279.9	315.6
142.5°	137.5	159.8	207.8	267.4	296.9
145°	142.1	163.3	207.1	257.1	281.3
147.5°	147.0	166.1	206.0	248.1	267.5
150°	152.0	169.0	205.0	240.3	255.5
152.5°	156.9	171.8	203.2	233.8	245.3
155°	161.5	174.4	201.1	227.4	236.4
157.5°	165.4	176.5	199.0	221.4	228.7
160°	169.3	178.6	196.9	215.4	221.2
162.5°	173.2	180.2	195.1	209.8	214.2
165°	176.0	181.3	192.6	204.3	207.5
167.5°	178.5	182.4	190.5	199.3	201.1
170°	180.9	182.9	188.7	194.8	195.4
172.5°	182.4	183.4	186.6	190.6	190.8
175°	183.4	183.6	185.2	187.5	187.0
177.5°	184.1	183.8	183.8	185.2	184.1
180°	183.8	183.8	183.8	183.8	183.8

(END OF REPORT)