

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: P1010007

Luminaire Tested: S122RDIP-B485D330UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010007
REPORT IS A COMBINATION OF REPORTS P988297 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B485D330UB50-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

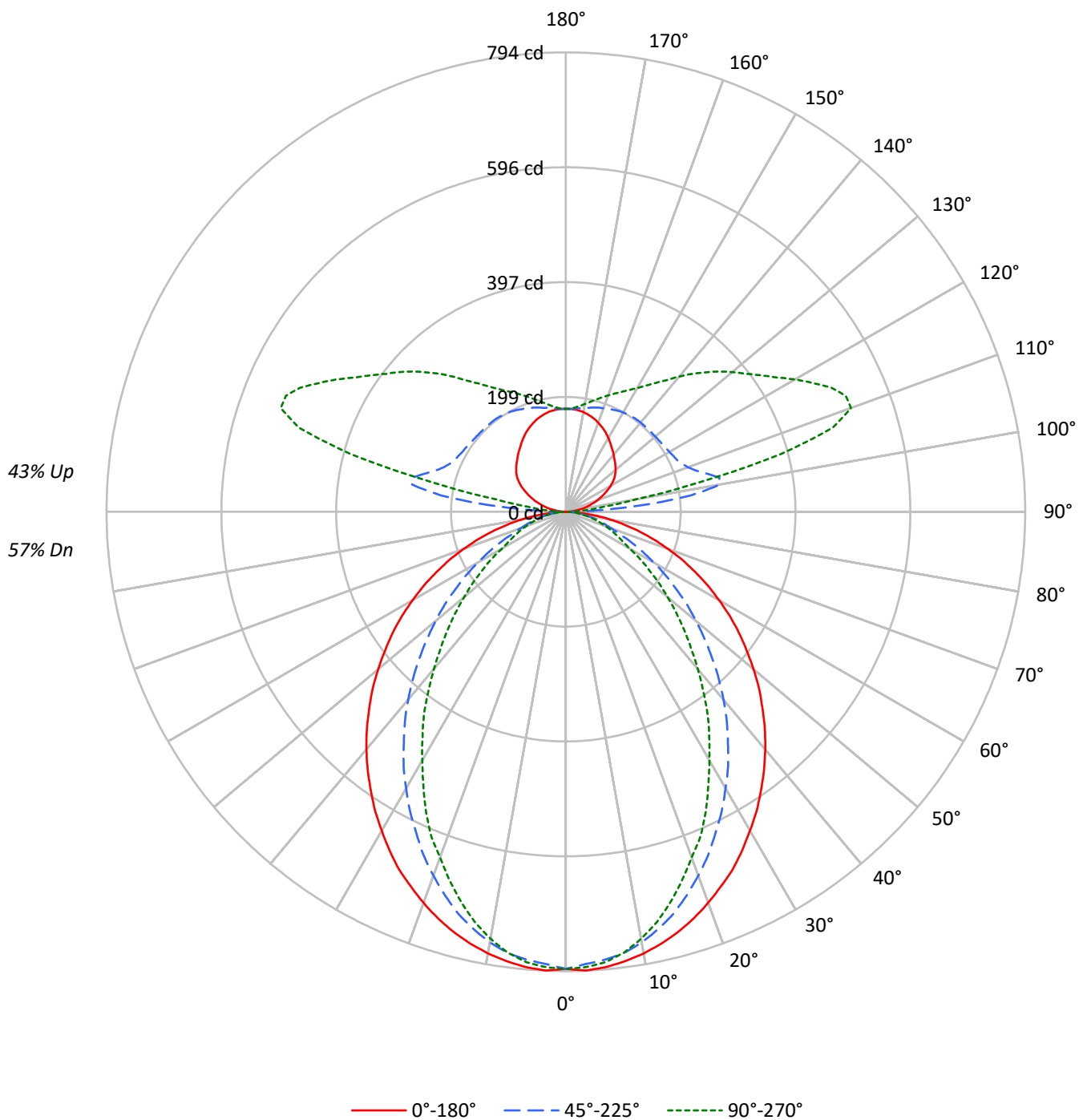
Lumens per Lamp: N/A
Luminaire Lumens: 2865.4 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	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°	12507	12507	12507
5°	12527	11900	11810
10°	12404	11285	10913
15°	12233	10561	9890
20°	12007	9738	8820
25°	11778	8893	7840
30°	11467	8069	6770
35°	11163	7240	5852
40°	10854	6424	4907
45°	10494	5582	4082
50°	10123	4772	3322
55°	9737	3961	2638
60°	9285	3168	1996
65°	8770	2414	1623
70°	8146	1751	1290
75°	7362	1336	986
80°	6219	904	662
85°	4337	415	320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10494 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	2.6
10°-20°	203.3	7.1
20°-30°	285.4	10.0
30°-40°	311.1	10.9
40°-50°	285.9	10.0
50°-60°	224.6	7.8
60°-70°	146.2	5.1
70°-80°	75.2	2.6
80°-90°	20.3	0.7
90°-100°	72.1	2.5
100°-110°	243.6	8.5
110°-120°	256.1	8.9
120°-130°	210.5	7.3
130°-140°	169.2	5.9
140°-150°	127.8	4.5
150°-160°	89.9	3.1
160°-170°	52.9	1.8
170°-180°	17.2	0.6
0°-30°	562.8	19.6
0°-40°	873.9	30.5
0°-60°	1384.4	48.3
0°-90°	1626.1	56.8
90°-120°	571.7	20.0
90°-150°	1079.3	37.7
90°-180°	1239.0	43.2
0°-180°	2865.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	790	787	777	784	782	75
15°	752	744	719	706	699	212
25°	682	659	612	583	572	314
35°	588	551	488	443	428	368
45°	480	433	358	307	290	371
55°	365	310	232	190	176	326
65°	247	189	124	100	98	245
75°	132	82	57	52	52	139
85°	31	16	14	14	14	35
90°	0	5	12	11	11	2
95°	12	29	134	51	39	12
105°	42	63	253	453	385	44
115°	74	93	212	437	507	73
125°	102	121	204	354	411	91
135°	120	144	201	298	341	93
145°	137	158	200	249	272	86
155°	156	169	194	220	229	72
165°	170	175	186	198	201	48
175°	177	178	179	181	181	17
180°	178	178	178	178	178	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	790.1	790.1	790.1	790.1	790.1
2.5°	793.7	790.1	782.3	789.4	788.0
5°	790.1	786.6	777.3	783.7	781.5
7.5°	783.7	779.4	769.4	772.3	768.7
10°	775.1	770.1	755.8	753.7	749.4
12.5°	764.4	758.0	738.6	734.4	726.5
15°	751.5	743.6	719.3	705.8	698.6
17.5°	736.5	725.1	695.0	679.3	667.9
20°	719.3	705.0	669.3	651.4	635.7
22.5°	700.7	684.3	642.8	618.5	607.8
25°	682.2	659.3	612.1	582.8	572.0
27.5°	660.0	635.7	583.5	549.9	533.4
30°	636.4	609.2	552.0	515.5	496.2
32.5°	613.5	580.6	522.0	479.1	461.2
35°	587.8	551.3	488.4	443.3	427.6
37.5°	562.7	523.4	456.9	407.6	389.7
40°	536.3	493.4	424.0	373.3	354.7
42.5°	509.1	463.4	391.1	338.2	320.3
45°	480.5	432.6	357.5	306.8	289.6
47.5°	453.3	402.6	325.3	274.6	258.8
50°	423.3	372.5	293.9	244.5	229.5
52.5°	394.0	340.4	263.9	216.7	203.1
55°	365.4	309.6	232.4	189.5	175.9
57.5°	336.1	278.9	204.5	164.5	153.0
60°	306.0	248.8	175.2	138.7	127.3
62.5°	276.7	219.5	150.2	115.8	110.1
65°	246.7	188.8	124.4	100.1	98.0
67.5°	218.1	160.2	100.1	88.0	85.8
70°	188.1	132.3	82.9	75.8	72.9
72.5°	159.5	106.5	69.4	63.6	62.2
75°	131.6	81.5	57.2	52.2	51.5
77.5°	103.7	57.9	45.0	42.2	40.8
80°	77.9	41.5	34.3	31.5	31.5
82.5°	54.3	27.9	23.6	22.2	22.2
85°	30.7	15.7	13.6	13.6	13.6
87.5°	11.4	5.7	5.7	5.0	5.0
90°	0.3	4.6	11.6	11.1	11.3
92.5°	5.1	16.2	52.6	24.2	20.9
95°	12.0	29.4	134.0	50.6	39.0
97.5°	17.8	38.8	218.4	101.6	65.3
100°	26.3	47.5	270.0	202.2	122.4
102.5°	34.2	55.4	271.8	341.8	238.6
105°	41.7	62.9	253.3	452.8	385.2
107.5°	49.9	70.4	236.2	493.0	484.0
110°	58.1	78.2	224.6	486.4	524.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.6	85.4	217.1	464.4	523.7
115°	73.5	92.8	211.9	437.4	506.9
117.5°	81.7	100.2	209.2	411.6	481.6
120°	89.2	107.3	206.8	388.4	457.4
122.5°	96.4	114.6	205.4	370.5	432.1
125°	102.5	121.4	203.7	354.3	411.2
127.5°	107.7	127.6	202.7	340.4	391.7
130°	112.1	133.3	202.0	326.4	375.7
132.5°	116.2	138.8	201.7	311.9	358.9
135°	120.3	143.6	201.3	297.8	340.8
137.5°	124.1	147.6	201.3	283.4	323.4
140°	128.5	151.4	201.0	270.7	305.3
142.5°	133.0	154.5	201.0	258.6	287.1
145°	137.4	158.0	200.3	248.6	272.1
147.5°	142.2	160.6	199.3	240.0	258.8
150°	147.0	163.4	198.3	232.4	247.1
152.5°	151.8	166.2	196.6	226.2	237.2
155°	156.2	168.7	194.5	220.0	228.7
157.5°	160.0	170.8	192.4	214.2	221.2
160°	163.7	172.8	190.4	208.3	214.0
162.5°	167.5	174.4	188.7	202.8	207.1
165°	170.2	175.4	186.3	197.6	200.7
167.5°	172.6	176.4	184.2	192.8	194.5
170°	175.0	176.9	182.5	188.4	189.0
172.5°	176.4	177.4	180.5	184.4	184.6
175°	177.4	177.6	179.1	181.4	180.8
177.5°	178.1	177.8	177.8	179.1	178.1
180°	177.8	177.8	177.8	177.8	177.8

(END OF REPORT)