

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: P1010285

Luminaire Tested: S122RDIP-B865D330UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010285
REPORT IS A COMBINATION OF REPORTS P988680 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B865D330UB30-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

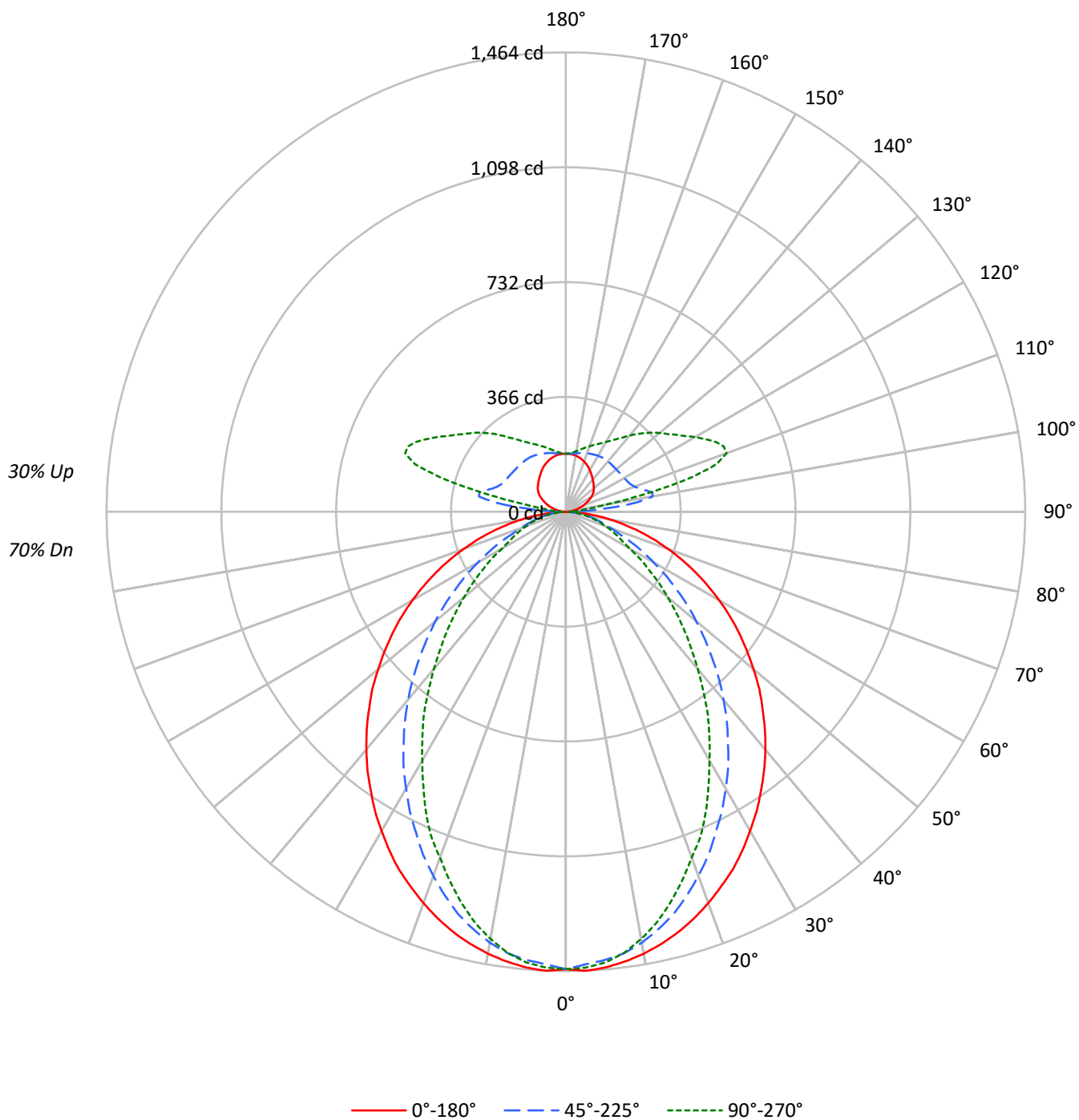
Lumens per Lamp: N/A
Luminaire Lumens: 4287.5 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	103	99	95	92	97	94	90	87	84	81	79	75	73	71	67	66	64
2	94	87	81	76	89	83	77	73	74	70	67	67	64	61	60	57	55
3	87	77	70	64	82	73	67	62	66	61	57	60	56	52	54	50	48
4	80	69	61	55	75	66	59	53	59	54	49	54	49	45	48	45	42
5	73	62	54	48	69	59	52	46	54	48	43	49	44	40	44	40	37
6	68	56	48	42	64	53	46	41	49	43	38	44	39	35	40	36	33
7	63	51	43	37	60	49	41	36	44	38	34	40	35	32	37	33	29
8	59	46	39	33	56	44	37	32	41	35	30	37	32	29	34	30	27
9	55	43	35	30	52	41	34	29	38	32	28	34	29	26	32	27	24
10	51	39	32	27	49	38	31	27	35	29	25	32	27	24	29	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23074	23074	23074
5°	23112	21953	21790
10°	22884	20821	20133
15°	22570	19484	18246
20°	22154	17965	16272
25°	21727	16405	14465
30°	21155	14887	12491
35°	20594	13356	10797
40°	20025	11853	9052
45°	19361	10300	7531
50°	18676	8803	6131
55°	17962	7306	4867
60°	17133	5843	3682
65°	16179	4454	2993
70°	15028	3231	2381
75°	13577	2464	1818
80°	11481	1668	1219
85°	8009	765	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19361 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	3.2
10°-20°	375.1	8.7
20°-30°	526.6	12.3
30°-40°	574.0	13.4
40°-50°	527.5	12.3
50°-60°	414.3	9.7
60°-70°	269.7	6.3
70°-80°	138.8	3.2
80°-90°	36.6	0.9
90°-100°	74.9	1.7
100°-110°	253.2	5.9
110°-120°	266.2	6.2
120°-130°	218.9	5.1
130°-140°	175.9	4.1
140°-150°	132.9	3.1
150°-160°	93.4	2.2
160°-170°	55.0	1.3
170°-180°	17.9	0.4
0°-30°	1038.2	24.2
0°-40°	1612.2	37.6
0°-60°	2554.0	59.6
0°-90°	2999.2	70.0
90°-120°	594.3	13.9
90°-150°	1122.0	26.2
90°-180°	1288.0	30.0
0°-180°	4287.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1458	1451	1434	1446	1442	138
15°	1386	1372	1327	1302	1289	391
25°	1258	1216	1129	1075	1055	579
35°	1084	1017	901	818	789	679
45°	886	798	660	566	534	685
55°	674	571	429	350	324	602
65°	455	348	230	185	181	451
75°	243	150	106	96	95	257
85°	57	29	25	25	25	65
90°	0	5	12	12	12	4
95°	12	31	139	53	40	13
105°	43	65	263	471	400	46
115°	76	96	220	455	527	76
125°	107	126	212	368	428	95
135°	125	149	209	310	354	97
145°	143	164	208	259	283	90
155°	162	175	202	229	238	75
165°	177	182	194	205	209	50
175°	184	185	186	188	188	18
180°	185	185	185	185	185	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1464.3	1457.7	1443.2	1456.4	1453.8
5°	1457.7	1451.1	1434.0	1445.9	1441.9
7.5°	1445.9	1437.9	1419.5	1424.7	1418.1
10°	1430.0	1420.8	1394.4	1390.4	1382.5
12.5°	1410.2	1398.4	1362.7	1354.8	1340.3
15°	1386.5	1372.0	1327.1	1302.1	1288.9
17.5°	1358.8	1337.7	1282.3	1253.2	1232.1
20°	1327.1	1300.7	1234.8	1201.8	1172.8
22.5°	1292.8	1262.5	1186.0	1141.1	1121.3
25°	1258.5	1216.3	1129.2	1075.2	1055.4
27.5°	1217.6	1172.8	1076.5	1014.5	984.1
30°	1174.1	1124.0	1018.4	951.1	915.5
32.5°	1131.9	1071.2	963.0	883.9	850.9
35°	1084.4	1017.1	901.0	817.9	788.9
37.5°	1038.2	965.7	843.0	751.9	719.0
40°	989.4	910.3	782.3	688.6	654.3
42.5°	939.3	854.8	721.6	624.0	591.0
45°	886.5	798.1	659.6	565.9	534.3
47.5°	836.4	742.7	600.2	506.6	477.6
50°	781.0	687.3	542.2	451.2	423.5
52.5°	726.9	627.9	486.8	399.7	374.7
55°	674.1	571.2	428.7	349.6	324.5
57.5°	620.0	514.5	377.3	303.4	282.3
60°	564.6	459.1	323.2	255.9	234.8
62.5°	510.5	405.0	277.0	213.7	203.2
65°	455.1	348.3	229.5	184.7	180.7
67.5°	402.4	295.5	184.7	162.3	158.3
70°	347.0	244.1	153.0	139.8	134.6
72.5°	294.2	196.6	128.0	117.4	114.8
75°	242.7	150.4	105.5	96.3	95.0
77.5°	191.3	106.9	83.1	77.8	75.2
80°	143.8	76.5	63.3	58.0	58.0
82.5°	100.3	51.4	43.5	40.9	40.9
85°	56.7	29.0	25.1	25.1	25.1
87.5°	21.1	10.6	10.6	9.2	9.2
90°	0.4	4.8	12.1	11.6	11.7
92.5°	5.3	16.8	54.7	25.2	21.7
95°	12.4	30.6	139.3	52.6	40.5
97.5°	18.5	40.3	227.1	105.6	67.9
100°	27.4	49.4	280.7	210.2	127.2
102.5°	35.5	57.6	282.5	355.3	248.0
105°	43.4	65.4	263.3	470.6	400.5
107.5°	51.9	73.2	245.5	512.4	503.2
110°	60.4	81.2	233.5	505.6	545.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.2	88.8	225.6	482.8	544.4
115°	76.4	96.5	220.3	454.7	527.0
117.5°	84.9	104.1	217.5	427.8	500.7
120°	92.7	111.6	215.0	403.8	475.5
122.5°	100.2	119.2	213.6	385.2	449.2
125°	106.6	126.2	211.8	368.3	427.5
127.5°	111.9	132.8	210.7	354.0	407.2
130°	116.6	138.6	210.0	339.4	390.5
132.5°	120.8	144.2	209.7	324.2	373.1
135°	125.1	149.2	209.3	309.6	354.3
137.5°	129.0	153.5	209.3	294.6	336.2
140°	133.6	157.4	208.9	281.5	317.3
142.5°	138.2	160.6	208.9	268.8	298.5
145°	142.8	164.2	208.2	258.6	282.9
147.5°	147.8	167.0	207.2	249.4	269.0
150°	152.8	169.9	206.1	241.6	256.9
152.5°	157.8	172.7	204.3	235.0	246.6
155°	162.4	175.4	202.2	228.6	237.7
157.5°	166.3	177.5	200.1	222.6	229.9
160°	170.2	179.6	197.9	216.6	222.4
162.5°	174.1	181.2	196.2	210.9	215.3
165°	177.0	182.3	193.7	205.4	208.6
167.5°	179.4	183.4	191.5	200.4	202.2
170°	181.9	183.9	189.8	195.8	196.5
172.5°	183.4	184.4	187.6	191.7	191.9
175°	184.4	184.6	186.2	188.5	188.0
177.5°	185.1	184.8	184.8	186.2	185.1
180°	184.8	184.8	184.8	184.8	184.8

(END OF REPORT)