

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: P1010295

Luminaire Tested: S122RDIP-B865D330UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010295
REPORT IS A COMBINATION OF REPORTS P988690 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B865D330UB40-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

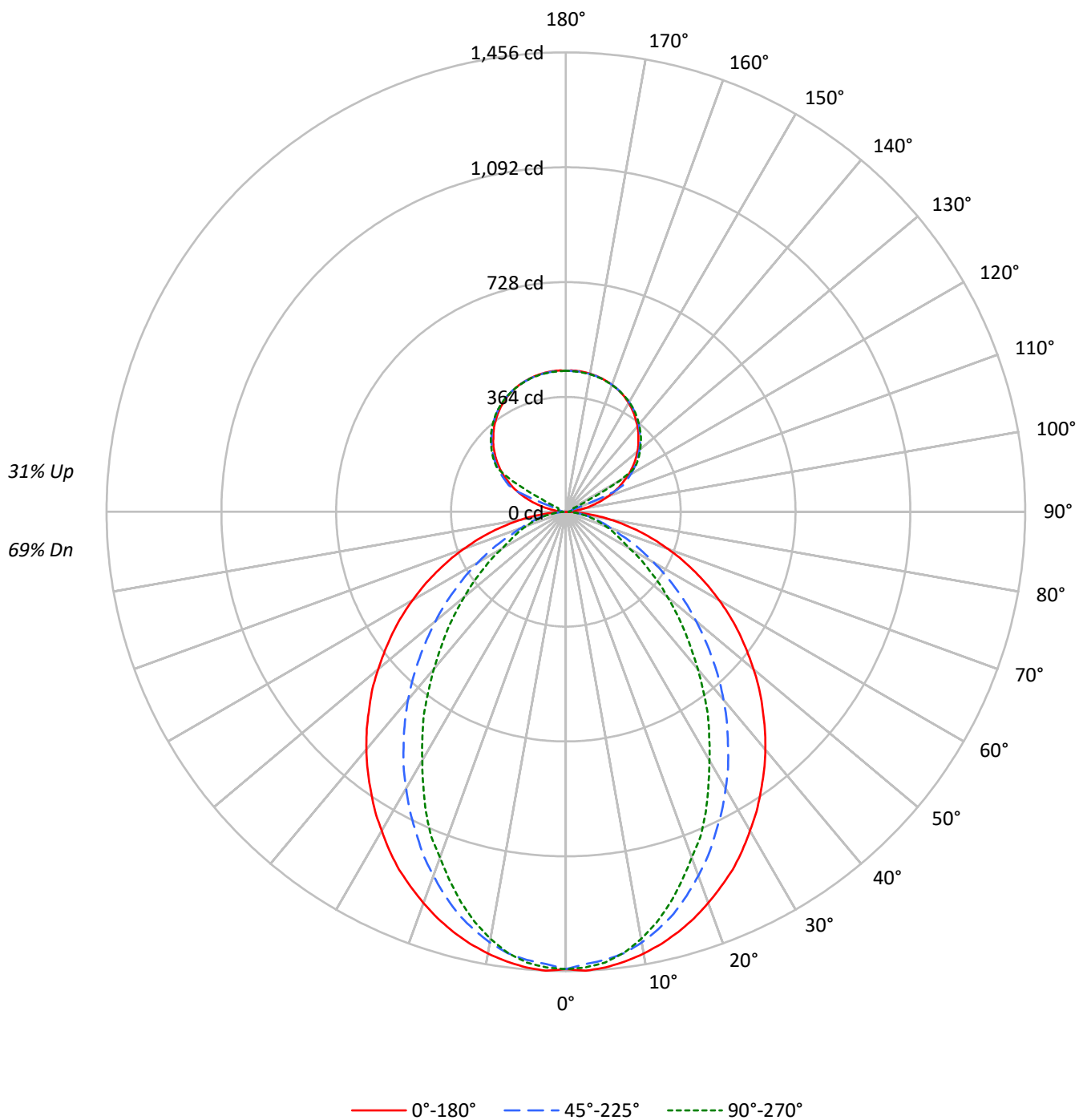
Lumens per Lamp: N/A
Luminaire Lumens: 4292.0 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	91	97	93	90	87	84	81	79	75	73	71	66	65	64
2	94	87	81	76	89	83	77	73	74	70	66	66	63	61	59	57	55
3	86	77	70	64	81	73	67	62	66	61	57	59	55	52	53	50	47
4	79	69	61	55	75	65	58	53	59	54	49	53	49	45	48	44	41
5	73	62	54	48	69	59	52	46	53	47	43	48	44	40	44	40	37
6	68	56	48	42	64	53	46	41	48	42	38	44	39	35	40	36	33
7	63	51	43	37	60	48	41	36	44	38	34	40	35	31	37	32	29
8	59	46	39	33	55	44	37	32	41	35	30	37	32	28	34	30	26
9	55	43	35	30	52	41	34	29	37	32	27	34	29	26	31	27	24
10	51	39	32	27	49	38	31	26	35	29	25	32	27	23	29	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22945	22945	22945
5°	22982	21828	21666
10°	22755	20703	20020
15°	22442	19374	18143
20°	22028	17863	16179
25°	21605	16312	14383
30°	21034	14804	12420
35°	20477	13280	10736
40°	19911	11786	9001
45°	19252	10242	7487
50°	18569	8753	6096
55°	17861	7265	4840
60°	17035	5811	3662
65°	16086	4429	2976
70°	14941	3214	2367
75°	13504	2450	1807
80°	11417	1660	1213
85°	7967	759	586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19252 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	3.2
10°-20°	372.9	8.7
20°-30°	523.6	12.2
30°-40°	570.7	13.3
40°-50°	524.5	12.2
50°-60°	412.0	9.6
60°-70°	268.1	6.2
70°-80°	138.0	3.2
80°-90°	36.1	0.8
90°-100°	14.7	0.3
100°-110°	54.9	1.3
110°-120°	145.7	3.4
120°-130°	241.7	5.6
130°-140°	256.7	6.0
140°-150°	238.6	5.6
150°-160°	191.8	4.5
160°-170°	123.6	2.9
170°-180°	42.5	1.0
0°-30°	1032.3	24.1
0°-40°	1603.1	37.4
0°-60°	2539.6	59.2
0°-90°	2981.8	69.5
90°-120°	215.4	5.0
90°-150°	952.3	22.2
90°-180°	1310.0	30.5
0°-180°	4292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1450	1443	1426	1438	1434	137
15°	1379	1364	1320	1295	1282	388
25°	1251	1209	1123	1069	1049	576
35°	1078	1011	896	813	784	675
45°	882	794	656	563	531	681
55°	670	568	426	348	323	599
65°	452	346	228	184	180	449
75°	241	150	105	96	94	255
85°	56	29	25	25	25	65
90°	0	4	6	8	9	4
95°	21	10	13	14	14	25
105°	98	108	20	23	25	105
115°	186	191	200	50	26	183
125°	263	267	273	276	276	234
135°	325	330	333	337	336	251
145°	377	377	383	385	383	236
155°	416	413	416	418	416	191
165°	438	436	437	439	437	124
175°	448	446	446	448	445	43
180°	447	447	447	447	447	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1449.5	1449.5	1449.5	1449.5	1449.5
2.5°	1456.0	1449.5	1435.0	1448.1	1445.5
5°	1449.5	1442.9	1425.8	1437.7	1433.7
7.5°	1437.7	1429.8	1411.4	1416.7	1410.1
10°	1421.9	1412.7	1386.5	1382.6	1374.7
12.5°	1402.2	1390.4	1355.0	1347.1	1332.7
15°	1378.6	1364.2	1319.6	1294.7	1281.6
17.5°	1351.1	1330.1	1275.0	1246.1	1225.2
20°	1319.6	1293.4	1227.8	1195.0	1166.1
22.5°	1285.5	1255.3	1179.2	1134.6	1115.0
25°	1251.4	1209.4	1122.8	1069.1	1049.4
27.5°	1210.7	1166.1	1070.4	1008.7	978.5
30°	1167.4	1117.6	1012.7	945.8	910.3
32.5°	1125.5	1065.1	957.6	878.9	846.1
35°	1078.2	1011.3	895.9	813.3	784.4
37.5°	1032.3	960.2	838.2	747.7	714.9
40°	983.8	905.1	777.9	684.7	650.6
42.5°	934.0	850.0	717.5	620.4	587.7
45°	881.5	793.6	655.9	562.7	531.2
47.5°	831.6	738.5	596.8	503.7	474.8
50°	776.5	683.4	539.1	448.6	421.1
52.5°	722.8	624.4	484.0	397.5	372.5
55°	670.3	568.0	426.3	347.6	322.7
57.5°	616.5	511.6	375.2	301.7	280.7
60°	561.4	456.5	321.4	254.5	233.5
62.5°	507.6	402.7	275.5	212.5	202.0
65°	452.5	346.3	228.2	183.6	179.7
67.5°	400.1	293.8	183.6	161.3	157.4
70°	345.0	242.7	152.2	139.0	133.8
72.5°	292.5	195.4	127.2	116.7	114.1
75°	241.4	149.5	104.9	95.8	94.4
77.5°	190.2	106.2	82.6	77.4	74.8
80°	143.0	76.1	63.0	57.7	57.7
82.5°	99.7	51.2	43.3	40.7	40.7
85°	56.4	28.9	24.9	24.9	24.9
87.5°	21.0	10.5	10.5	9.2	9.2
90°	0.3	3.9	6.5	8.1	8.7
92.5°	8.1	6.8	7.8	8.4	8.7
95°	21.0	10.3	12.6	14.2	13.9
97.5°	37.8	11.3	16.5	17.5	17.8
100°	57.2	12.9	18.4	21.0	21.7
102.5°	78.6	77.9	19.1	22.6	23.6
105°	98.3	108.0	19.7	23.3	24.6
107.5°	121.3	129.4	20.4	23.9	25.2
110°	143.3	150.1	56.6	24.3	25.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.0	169.8	164.3	24.9	25.9
115°	185.9	191.4	199.5	49.8	26.5
117.5°	205.0	211.5	217.0	170.7	86.0
120°	226.4	231.2	237.0	240.9	197.3
122.5°	244.5	249.7	256.1	258.1	258.4
125°	262.9	267.1	273.3	275.5	276.5
127.5°	279.7	284.3	289.1	292.3	292.7
130°	295.6	300.7	304.3	307.9	307.5
132.5°	311.7	315.9	319.5	322.4	322.1
135°	325.3	330.5	333.4	336.6	336.0
137.5°	339.6	343.4	346.7	349.9	348.9
140°	353.5	356.0	359.6	362.5	360.9
142.5°	365.1	367.4	371.6	374.2	372.5
145°	377.4	377.1	382.6	384.8	383.2
147.5°	388.1	387.1	392.6	394.2	392.9
150°	398.4	396.1	401.3	403.3	401.6
152.5°	407.1	404.6	409.4	411.3	409.1
155°	415.6	412.6	416.5	418.5	415.9
157.5°	422.3	419.8	422.7	424.9	422.3
160°	428.2	426.2	428.2	430.1	427.8
162.5°	433.3	431.4	433.0	435.3	432.4
165°	437.9	435.9	436.9	439.2	436.9
167.5°	441.4	439.5	440.5	442.7	439.8
170°	444.3	442.4	443.0	445.3	442.4
172.5°	446.3	444.3	445.0	447.2	444.3
175°	447.9	445.6	446.3	448.5	445.3
177.5°	448.5	446.3	446.6	448.9	446.0
180°	446.9	446.9	446.9	446.9	446.9

(END OF REPORT)