

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: P1009734

Luminaire Tested: S122RDIP-B1005D530UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009734
REPORT IS A COMBINATION OF REPORTS P987930 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B1005D530UB40-4F0-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

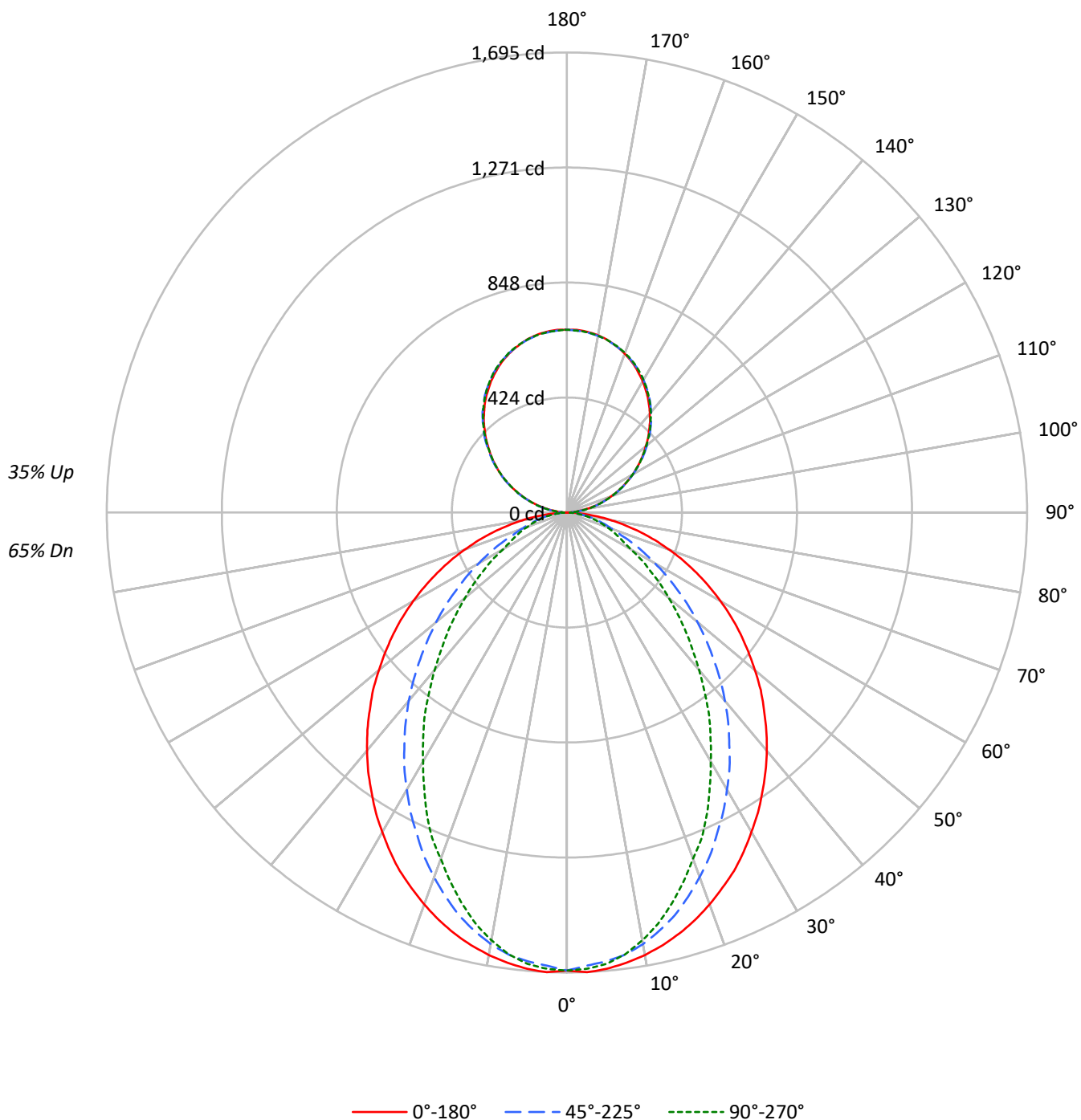
Lumens per Lamp: N/A
Luminaire Lumens: 5355.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	102	98	94	90	96	92	89	86	81	79	77	72	70	68	63	61	60
2	93	86	80	75	87	81	76	71	72	68	64	64	61	58	56	54	52
3	85	76	69	63	80	72	66	60	64	59	55	57	53	50	50	47	45
4	79	68	60	54	74	64	57	52	57	52	47	51	47	43	45	42	39
5	72	61	53	47	68	58	51	45	52	46	41	46	42	38	41	37	34
6	67	55	47	41	63	52	45	40	47	41	37	42	37	34	38	34	31
7	62	50	42	36	58	47	40	35	43	37	33	39	34	30	34	31	28
8	58	46	38	33	54	43	36	31	39	33	29	35	31	27	32	28	25
9	54	42	34	29	51	40	33	28	36	30	26	33	28	25	29	26	23
10	51	39	31	27	48	37	30	26	34	28	24	30	26	22	27	24	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26715	26715	26715
5°	26759	25416	25228
10°	26494	24106	23311
15°	26130	22559	21124
20°	25649	20799	18839
25°	25156	18994	16748
30°	24492	17236	14463
35°	23844	15464	12501
40°	23184	13722	10481
45°	22417	11925	8719
50°	21623	10191	7098
55°	20797	8460	5635
60°	19836	6765	4264
65°	18731	5159	3465
70°	17396	3742	2756
75°	15719	2854	2105
80°	13293	1932	1413
85°	9281	884	682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22417 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	3.0
10°-20°	434.2	8.1
20°-30°	609.6	11.4
30°-40°	664.5	12.4
40°-50°	610.8	11.4
50°-60°	479.7	9.0
60°-70°	312.2	5.8
70°-80°	160.7	3.0
80°-90°	43.0	0.8
90°-100°	41.6	0.8
100°-110°	132.4	2.5
110°-120°	226.5	4.2
120°-130°	297.9	5.6
130°-140°	334.4	6.2
140°-150°	327.9	6.1
150°-160°	275.1	5.1
160°-170°	182.4	3.4
170°-180°	63.8	1.2
0°-30°	1202.0	22.4
0°-40°	1866.6	34.9
0°-60°	2957.0	55.2
0°-90°	3472.9	64.9
90°-120°	400.5	7.5
90°-150°	1360.8	25.4
90°-180°	1882.0	35.1
0°-180°	5355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1688	1680	1660	1674	1669	160
15°	1605	1588	1536	1508	1492	452
25°	1457	1408	1307	1245	1222	670
35°	1256	1178	1043	947	913	786
45°	1026	924	764	655	619	793
55°	780	661	496	405	376	697
65°	527	403	266	214	209	522
75°	281	174	122	112	110	297
85°	66	34	29	29	29	75
90°	1	7	20	19	19	5
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.7	1687.7	1687.7	1687.7	1687.7
2.5°	1695.4	1687.7	1670.9	1686.2	1683.1
5°	1687.7	1680.1	1660.2	1674.0	1669.4
7.5°	1674.0	1664.8	1643.4	1649.5	1641.9
10°	1655.6	1644.9	1614.4	1609.8	1600.7
12.5°	1632.7	1619.0	1577.7	1568.6	1551.8
15°	1605.2	1588.4	1536.5	1507.5	1492.2
17.5°	1573.2	1548.7	1484.6	1451.0	1426.5
20°	1536.5	1506.0	1429.6	1391.4	1357.8
22.5°	1496.8	1461.7	1373.1	1321.2	1298.2
25°	1457.1	1408.2	1307.4	1244.8	1221.9
27.5°	1409.7	1357.8	1246.3	1174.5	1139.4
30°	1359.3	1301.3	1179.1	1101.2	1060.0
32.5°	1310.5	1240.2	1115.0	1023.3	985.1
35°	1255.5	1177.6	1043.2	947.0	913.4
37.5°	1202.0	1118.0	976.0	870.6	832.4
40°	1145.5	1053.9	905.7	797.3	757.6
42.5°	1087.5	989.7	835.5	722.4	684.2
45°	1026.4	924.0	763.7	655.2	618.6
47.5°	968.3	859.9	694.9	586.5	552.9
50°	904.2	795.7	627.7	522.4	490.3
52.5°	841.6	727.0	563.6	462.8	433.8
55°	780.5	661.3	496.4	404.7	375.7
57.5°	717.9	595.7	436.8	351.3	326.9
60°	653.7	531.5	374.2	296.3	271.9
62.5°	591.1	468.9	320.7	247.4	235.2
65°	526.9	403.2	265.8	213.8	209.2
67.5°	465.8	342.1	213.8	187.9	183.3
70°	401.7	282.6	177.2	161.9	155.8
72.5°	340.6	227.6	148.2	135.9	132.9
75°	281.0	174.1	122.2	111.5	110.0
77.5°	221.5	123.7	96.2	90.1	87.1
80°	166.5	88.6	73.3	67.2	67.2
82.5°	116.1	59.6	50.4	47.3	47.3
85°	65.7	33.6	29.0	29.0	29.0
87.5°	24.4	12.2	12.2	10.7	10.7
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



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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)