

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: P999340

Luminaire Tested: SA2XXRDIP-B1005D330UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999340
REPORT IS A COMBINATION OF REPORTS P987891 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D330UB40-4F0-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

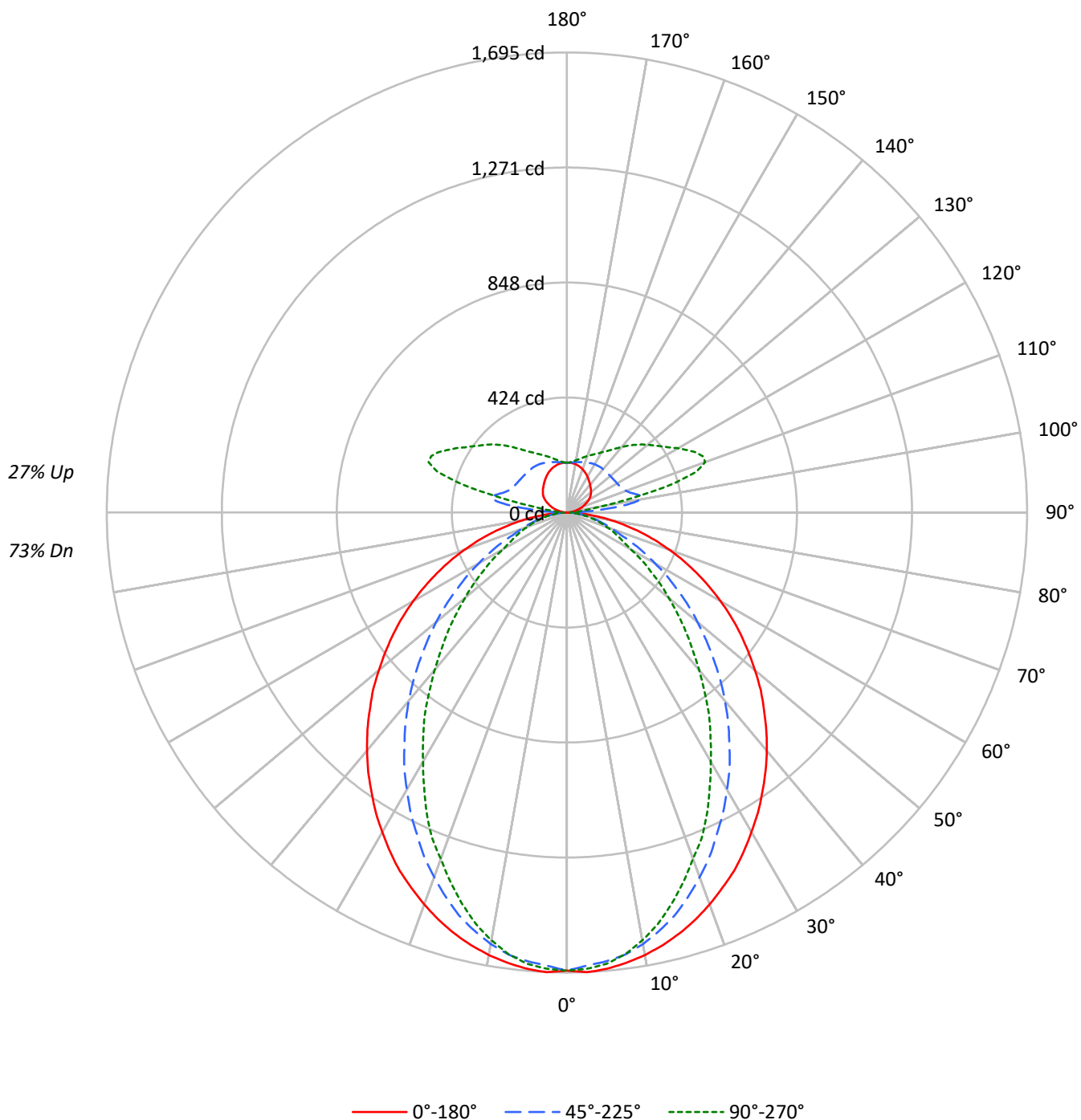
Lumens per Lamp: N/A
Luminaire Lumens: 4753.5 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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: P999340

CATALOG NUMBER: SA2XXRDIP-B1005D330UB40-4F0-XX-W2A-F4

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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77
1	104	99	96	92	98	95	91	88	85	83	81	77	75	73	69	68	67
2	95	88	82	77	90	84	78	74	76	72	68	69	65	62	62	60	57
3	87	78	71	65	83	74	68	62	68	62	58	61	57	54	56	52	50
4	80	69	62	56	76	66	59	54	61	55	50	55	51	47	50	46	43
5	74	62	54	48	70	60	52	47	55	49	44	50	45	41	46	42	38
6	68	56	48	42	65	54	47	41	50	43	39	45	40	36	42	37	34
7	64	51	43	38	60	49	42	37	45	39	35	42	36	33	38	34	31
8	59	47	39	34	56	45	38	33	42	35	31	38	33	29	35	31	28
9	55	43	36	30	53	41	34	30	38	32	28	35	30	27	33	28	25
10	52	40	33	28	49	38	32	27	36	30	26	33	28	24	30	26	23

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

TEST NUMBER: P999340

CATALOG NUMBER: SA2XXRDIP-B1005D330UB40-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	3.3
10°-20°	434.2	9.1
20°-30°	609.6	12.8
30°-40°	664.5	14.0
40°-50°	610.8	12.8
50°-60°	479.7	10.1
60°-70°	312.2	6.6
70°-80°	160.7	3.4
80°-90°	42.2	0.9
90°-100°	74.5	1.6
100°-110°	251.9	5.3
110°-120°	264.8	5.6
120°-130°	217.7	4.6
130°-140°	174.9	3.7
140°-150°	132.2	2.8
150°-160°	92.9	2.0
160°-170°	54.7	1.2
170°-180°	17.8	0.4
0°-30°	1202.0	25.3
0°-40°	1866.6	39.3
0°-60°	2957.0	62.2
0°-90°	3472.2	73.0
90°-120°	591.1	12.4
90°-150°	1115.9	23.5
90°-180°	1281.0	26.9
0°-180°	4753.5	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°	0	5	12	12	12	4
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: P999340

CATALOG NUMBER: SA2XXRDIP-B1005D330UB40-4F0-XX-W2A-F4

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°	0.4	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: P999340

CATALOG NUMBER: SA2XXRDIP-B1005D330UB40-4F0-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)