

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: P999380

Luminaire Tested: SA2XXRDIP-B1005D530UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999380
REPORT IS A COMBINATION OF REPORTS P987931 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D530UB40-4F0-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

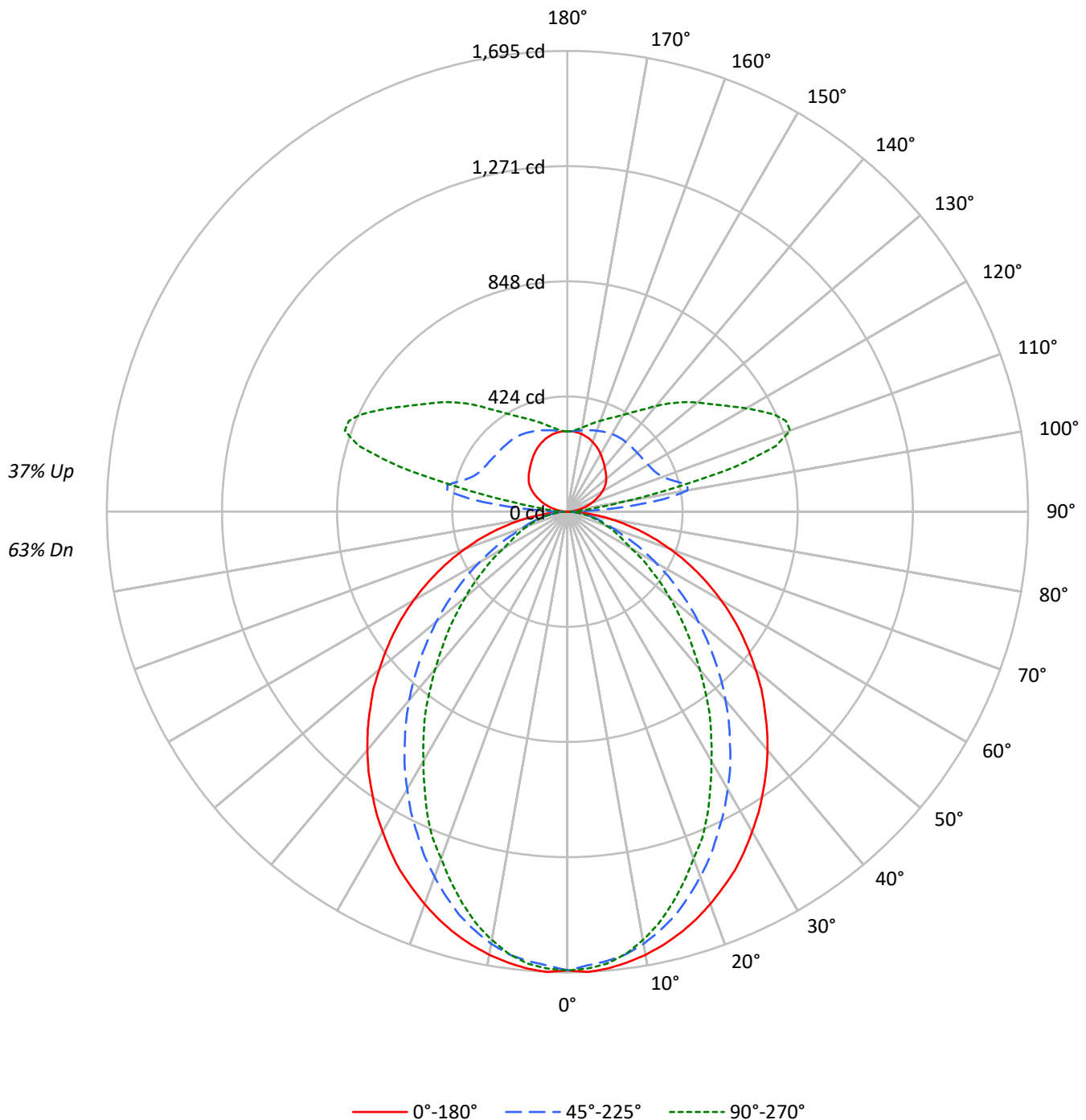
Lumens per Lamp: N/A
Luminaire Lumens: 5533.3 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P999380

CATALOG NUMBER: SA2XXRDIP-B1005D530UB40-4F0-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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68
1	101	97	93	90	95	91	88	85	80	78	76	70	68	67	61	60	59
2	93	85	80	75	87	80	75	71	71	67	64	62	59	57	54	52	50
3	85	76	69	63	79	71	65	60	63	58	54	56	52	49	49	46	43
4	78	67	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38
5	72	61	53	47	67	57	50	45	51	45	41	45	41	37	40	36	33
6	67	55	47	41	62	52	44	39	46	40	36	41	36	33	36	33	30
7	62	50	42	36	58	47	40	35	42	36	32	38	33	29	33	30	27
8	57	45	38	32	54	43	36	31	39	33	29	35	30	26	31	27	24
9	54	42	34	29	50	40	33	28	36	30	26	32	27	24	29	25	22
10	50	38	31	26	47	36	30	25	33	27	24	30	25	22	27	23	20

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: P999380

CATALOG NUMBER: SA2XXRDIP-B1005D530UB40-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	2.9
10°-20°	434.2	7.8
20°-30°	609.6	11.0
30°-40°	664.5	12.0
40°-50°	610.8	11.0
50°-60°	479.7	8.7
60°-70°	312.2	5.6
70°-80°	160.7	2.9
80°-90°	42.9	0.8
90°-100°	119.8	2.2
100°-110°	405.0	7.3
110°-120°	425.7	7.7
120°-130°	350.1	6.3
130°-140°	281.3	5.1
140°-150°	212.5	3.8
150°-160°	149.4	2.7
160°-170°	88.0	1.6
170°-180°	28.6	0.5
0°-30°	1202.0	21.7
0°-40°	1866.6	33.7
0°-60°	2957.0	53.4
0°-90°	3472.9	62.8
90°-120°	950.6	17.2
90°-150°	1794.5	32.4
90°-180°	2060.0	37.2
0°-180°	5533.3	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	8	19	18	19	5
95°	20	49	223	84	65	21
105°	69	105	421	753	640	74
115°	122	154	352	727	843	121
125°	170	202	339	589	684	152
135°	200	239	335	495	567	155
145°	228	263	333	413	452	143
155°	260	280	323	366	380	120
165°	283	292	310	328	334	80
175°	295	295	298	302	301	28
180°	296	296	296	296	296	

TEST NUMBER: P999380

CATALOG NUMBER: SA2XXRDIP-B1005D530UB40-4F0-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°	0.6	7.6	19.3	18.5	18.8
92.5°	8.5	27.0	87.5	40.4	34.7
95°	19.9	48.9	222.8	84.2	64.8
97.5°	29.6	64.5	363.2	168.8	108.6
100°	43.8	79.0	449.0	336.2	203.5
102.5°	56.8	92.0	451.8	568.3	396.7
105°	69.3	104.6	421.1	752.8	640.5
107.5°	83.0	117.0	392.7	819.6	804.8
110°	96.6	129.8	373.4	808.7	871.8



TEST NUMBER: P999380

CATALOG NUMBER: SA2XXRDIP-B1005D530UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.1	142.1	360.9	772.0	870.7
115°	122.2	154.3	352.4	727.2	842.8
117.5°	135.8	166.6	347.8	684.2	800.8
120°	148.3	178.4	343.8	646.0	760.4
122.5°	160.3	190.6	341.6	616.0	718.4
125°	170.5	201.8	338.7	589.1	683.7
127.5°	179.0	212.2	337.0	566.1	651.3
130°	186.4	221.6	335.9	542.8	624.6
132.5°	193.2	230.8	335.3	518.6	596.7
135°	200.1	238.7	334.7	495.0	566.6
137.5°	206.3	245.5	334.7	471.2	537.6
140°	213.7	251.8	334.2	450.1	507.5
142.5°	221.1	256.9	334.2	430.0	477.4
145°	228.5	262.6	333.0	413.4	452.4
147.5°	236.4	267.1	331.3	399.0	430.2
150°	244.4	271.6	329.6	386.5	410.9
152.5°	252.3	276.2	326.8	376.0	394.4
155°	259.7	280.4	323.4	365.7	380.2
157.5°	266.0	283.9	320.0	356.0	367.7
160°	272.2	287.3	316.6	346.4	355.8
162.5°	278.5	289.8	313.7	337.3	344.4
165°	283.0	291.6	309.7	328.5	333.6
167.5°	287.0	293.2	306.3	320.5	323.4
170°	291.0	294.2	303.5	313.2	314.3
172.5°	293.3	295.0	300.1	306.6	306.9
175°	295.0	295.2	297.8	301.5	300.6
177.5°	296.1	295.5	295.5	297.8	296.1
180°	295.5	295.5	295.5	295.5	295.5

(END OF REPORT)