

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: P1000143

Luminaire Tested: SA2XXRDIP-B865D530UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000143
REPORT IS A COMBINATION OF REPORTS P988703 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D530UB27-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

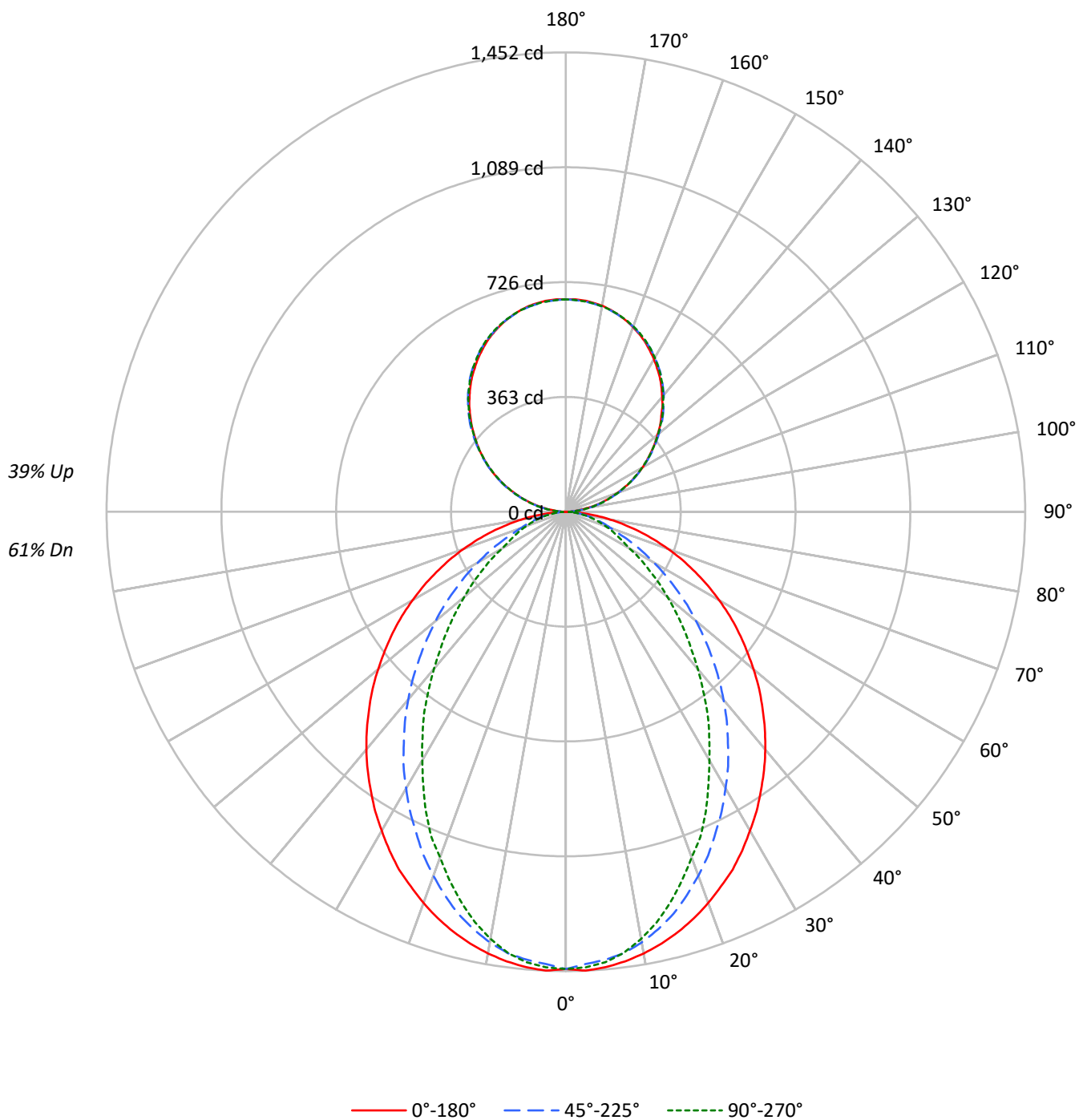
Lumens per Lamp: N/A
Luminaire Lumens: 4851.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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: P1000143

CATALOG NUMBER: SA2XXRDIP-B865D530UB27-4F0-XX-W2A-F1

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	78	78	78	67	67	67
1	101	97	93	90	94	91	87	85	80	77	75	69	67	66	60	58	57
2	92	85	79	74	86	80	75	70	70	66	63	62	59	56	53	51	49
3	85	75	68	63	79	71	65	60	63	58	54	55	51	48	48	45	43
4	78	67	59	54	73	63	56	51	56	51	46	49	45	42	43	40	37
5	72	60	52	46	67	57	50	44	51	45	40	45	40	37	39	36	33
6	66	54	46	41	62	51	44	39	46	40	36	41	36	32	36	32	29
7	61	49	41	36	58	47	40	35	42	36	32	37	32	29	33	29	26
8	57	45	37	32	54	43	36	31	38	33	28	34	29	26	30	26	24
9	53	41	34	29	50	39	32	28	35	30	26	32	27	24	28	24	22
10	50	38	31	26	47	36	30	25	33	27	23	29	25	22	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22875	22875	22875
5°	22912	21762	21601
10°	22686	20640	19959
15°	22375	19315	18088
20°	21962	17809	16131
25°	21539	16263	14339
30°	20971	14759	12384
35°	20416	13240	10703
40°	19851	11750	8975
45°	19193	10211	7465
50°	18514	8727	6077
55°	17808	7243	4825
60°	16984	5793	3651
65°	16040	4417	2968
70°	14893	3204	2360
75°	13459	2443	1803
80°	11377	1655	1209
85°	7939	756	583

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19193 cd/sqm

TEST NUMBER: P1000143

CATALOG NUMBER: SA2XXRDIP-B865D530UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	2.8
10°-20°	371.8	7.7
20°-30°	522.0	10.8
30°-40°	569.0	11.7
40°-50°	523.0	10.8
50°-60°	410.7	8.5
60°-70°	267.3	5.5
70°-80°	137.6	2.8
80°-90°	37.1	0.8
90°-100°	41.5	0.9
100°-110°	132.0	2.7
110°-120°	225.9	4.7
120°-130°	297.1	6.1
130°-140°	333.5	6.9
140°-150°	327.1	6.7
150°-160°	274.3	5.7
160°-170°	182.0	3.8
170°-180°	63.6	1.3
0°-30°	1029.2	21.2
0°-40°	1598.2	32.9
0°-60°	2531.9	52.2
0°-90°	2973.9	61.3
90°-120°	399.5	8.2
90°-150°	1357.2	28.0
90°-180°	1877.0	38.7
0°-180°	4851.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1445	1438	1422	1433	1429	137
15°	1374	1360	1316	1291	1278	387
25°	1248	1206	1119	1066	1046	574
35°	1075	1008	893	811	782	673
45°	879	791	654	561	530	679
55°	668	566	425	347	322	597
65°	451	345	228	183	179	447
75°	241	149	105	96	94	254
85°	56	29	25	25	25	65
90°	1	7	20	19	19	5
95°	30	35	36	36	35	33
105°	122	124	125	126	126	129
115°	227	230	229	228	227	224
125°	330	335	333	331	331	295
135°	427	433	434	433	432	330
145°	518	522	525	526	524	324
155°	592	594	596	598	597	273
165°	644	644	644	648	645	182
175°	670	669	667	671	668	64
180°	671	671	671	671	671	

TEST NUMBER: P1000143

CATALOG NUMBER: SA2XXRDIP-B865D530UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1445.1	1445.1	1445.1	1445.1	1445.1
2.5°	1451.6	1445.1	1430.7	1443.8	1441.2
5°	1445.1	1438.5	1421.5	1433.3	1429.4
7.5°	1433.3	1425.5	1407.2	1412.4	1405.9
10°	1417.6	1408.5	1382.3	1378.4	1370.5
12.5°	1398.0	1386.2	1350.9	1343.1	1328.7
15°	1374.5	1360.1	1315.6	1290.8	1277.7
17.5°	1347.0	1326.1	1271.2	1242.4	1221.5
20°	1315.6	1289.5	1224.1	1191.4	1162.6
22.5°	1281.6	1251.5	1175.7	1131.2	1111.6
25°	1247.6	1205.8	1119.4	1065.8	1046.2
27.5°	1207.1	1162.6	1067.1	1005.7	975.6
30°	1163.9	1114.2	1009.6	942.9	907.6
32.5°	1122.1	1061.9	954.7	876.2	843.5
35°	1075.0	1008.3	893.2	810.8	782.0
37.5°	1029.2	957.3	835.7	745.4	712.7
40°	980.8	902.4	775.5	682.7	648.7
42.5°	931.1	847.4	715.3	618.6	585.9
45°	878.8	791.2	653.9	561.0	529.6
47.5°	829.1	736.3	595.0	502.2	473.4
50°	774.2	681.3	537.5	447.3	419.8
52.5°	720.6	622.5	482.6	396.3	371.4
55°	668.3	566.3	425.0	346.6	321.7
57.5°	614.7	510.0	374.0	300.8	279.9
60°	559.7	455.1	320.4	253.7	232.8
62.5°	506.1	401.5	274.6	211.9	201.4
65°	451.2	345.3	227.6	183.1	179.2
67.5°	398.9	292.9	183.1	160.9	156.9
70°	343.9	241.9	151.7	138.6	133.4
72.5°	291.6	194.9	126.9	116.4	113.8
75°	240.6	149.1	104.6	95.5	94.2
77.5°	189.6	105.9	82.4	77.2	74.5
80°	142.5	75.9	62.8	57.5	57.5
82.5°	99.4	51.0	43.2	40.5	40.5
85°	56.2	28.8	24.8	24.8	24.8
87.5°	20.9	10.5	10.5	9.2	9.2
90°	0.6	7.4	19.8	18.7	19.3
92.5°	12.5	17.0	17.6	18.1	18.1
95°	29.5	35.1	36.3	36.3	35.1
97.5°	49.3	54.4	56.7	56.7	56.7
100°	72.0	76.5	78.2	78.2	77.6
102.5°	95.8	99.2	101.4	102.0	101.4
105°	121.8	123.5	124.6	125.8	125.8
107.5°	147.9	150.1	150.1	150.7	147.9
110°	172.8	176.2	176.2	176.2	174.5



TEST NUMBER: P1000143

CATALOG NUMBER: SA2XXRDIP-B865D530UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	200.0	203.4	202.8	201.1	200.0
115°	226.6	230.0	228.9	228.3	226.6
117.5°	253.3	257.8	255.0	253.3	251.6
120°	279.9	284.4	279.9	279.9	278.2
122.5°	304.3	309.9	307.1	305.4	304.3
125°	329.7	334.8	333.1	331.4	330.9
127.5°	354.7	360.9	358.6	356.4	354.7
130°	377.9	385.3	384.1	383.0	380.7
132.5°	404.0	409.6	410.2	407.4	405.7
135°	426.6	432.9	434.0	433.4	431.7
137.5°	451.6	456.7	457.8	457.2	455.0
140°	473.7	478.8	481.6	481.6	479.3
142.5°	496.3	501.4	503.1	503.7	501.4
145°	517.9	521.8	525.2	525.8	523.5
147.5°	537.1	542.2	544.5	545.6	543.3
150°	556.9	560.3	562.6	564.3	562.6
152.5°	574.5	577.9	580.7	583.0	580.7
155°	592.1	593.8	595.5	598.3	596.6
157.5°	607.4	608.5	609.6	613.6	610.8
160°	621.0	622.1	622.7	626.1	623.8
162.5°	633.4	633.4	634.0	638.0	635.1
165°	644.2	643.6	643.6	647.6	644.8
167.5°	653.8	652.1	652.1	656.1	653.3
170°	661.2	659.5	658.9	662.9	659.5
172.5°	666.3	664.6	664.0	668.0	664.6
175°	670.3	668.6	667.4	671.4	668.0
177.5°	672.5	670.8	669.7	673.1	669.7
180°	671.4	671.4	671.4	671.4	671.4

(END OF REPORT)