

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: P1000103

Luminaire Tested: SA2XXRDIP-B865D330UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000103
REPORT IS A COMBINATION OF REPORTS P988662 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D330UB27-4F0-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

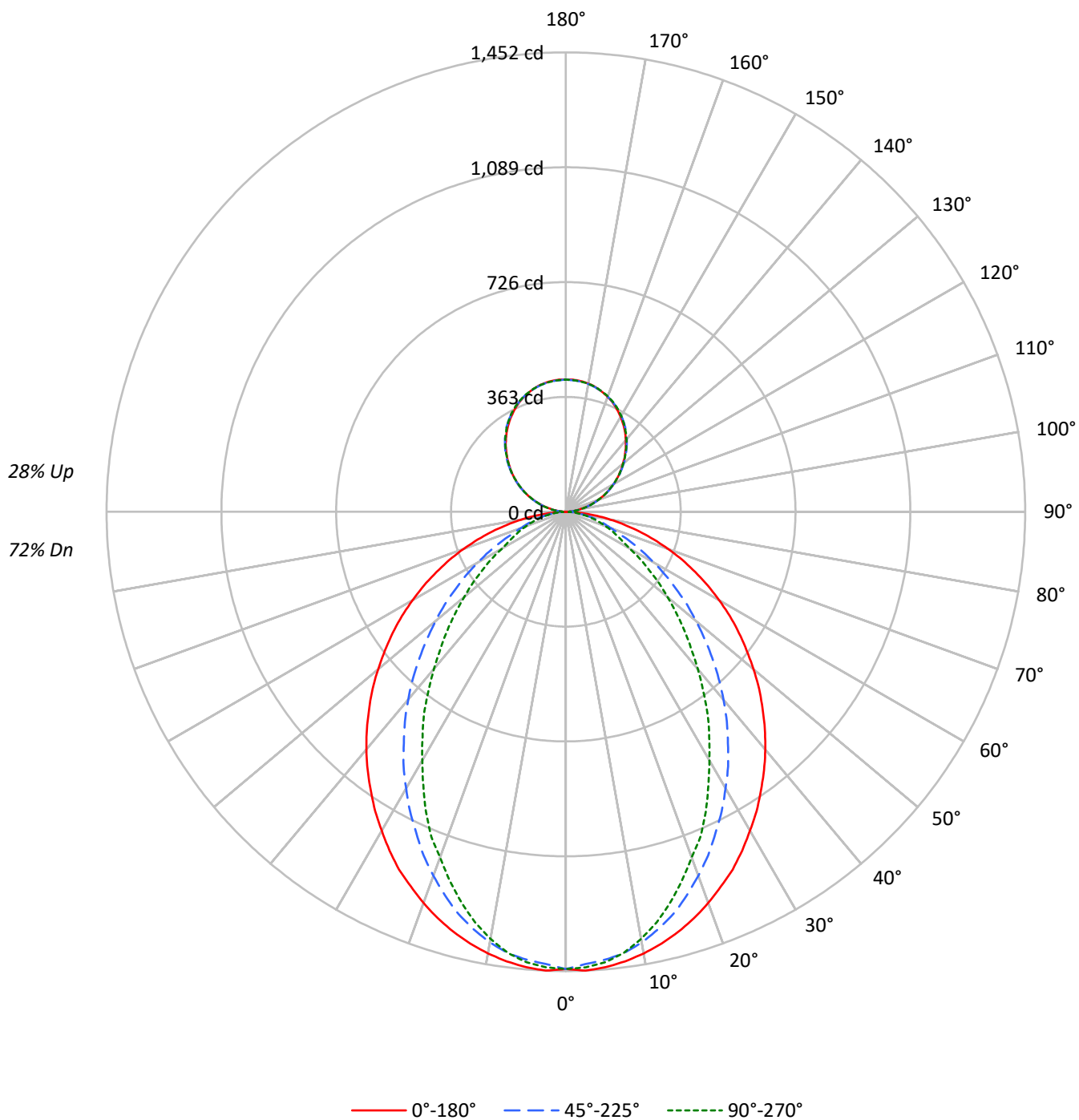
Lumens per Lamp: N/A
Luminaire Lumens: 4141.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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

TEST NUMBER: P1000103

CATALOG NUMBER: SA2XXRDIP-B865D330UB27-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



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CATALOG NUMBER: SA2XXRDIP-B865D330UB27-4F0-XX-W2A-F1

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	95	95	95	85	85	85	76	76	76
1	103	99	95	92	98	94	91	88	85	82	80	76	74	73	68	67	66
2	95	87	81	76	90	83	78	73	75	71	67	68	65	62	61	59	56
3	87	78	70	65	82	74	67	62	67	62	58	61	57	53	55	52	49
4	80	69	61	55	76	66	59	53	60	54	50	55	50	46	49	46	43
5	74	62	54	48	70	59	52	47	54	48	44	49	44	41	45	41	38
6	68	56	48	42	65	54	46	41	49	43	38	45	40	36	41	37	34
7	63	51	43	38	60	49	42	36	45	39	34	41	36	32	38	33	30
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	30	27
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25
10	52	40	32	27	49	38	31	27	35	29	25	33	28	24	30	26	23

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: P1000103

CATALOG NUMBER: SA2XXRDIP-B865D330UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.3
10°-20°	371.8	9.0
20°-30°	522.0	12.6
30°-40°	569.0	13.7
40°-50°	523.0	12.6
50°-60°	410.7	9.9
60°-70°	267.3	6.5
70°-80°	137.6	3.3
80°-90°	36.3	0.9
90°-100°	25.8	0.6
100°-110°	82.1	2.0
110°-120°	140.6	3.4
120°-130°	184.8	4.5
130°-140°	207.5	5.0
140°-150°	203.5	4.9
150°-160°	170.7	4.1
160°-170°	113.2	2.7
170°-180°	39.6	1.0
0°-30°	1029.2	24.9
0°-40°	1598.2	38.6
0°-60°	2531.9	61.1
0°-90°	2973.2	71.8
90°-120°	248.5	6.0
90°-150°	844.4	20.4
90°-180°	1168.0	28.2
0°-180°	4141.0	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°	0	5	12	12	12	4
95°	18	22	23	23	22	20
105°	76	77	78	78	78	80
115°	141	143	142	142	141	139
125°	205	208	207	206	206	183
135°	265	269	270	270	269	205
145°	322	325	327	327	326	201
155°	368	369	370	372	371	170
165°	401	400	400	403	401	113
175°	417	416	415	418	416	40
180°	418	418	418	418	418	

TEST NUMBER: P1000103

CATALOG NUMBER: SA2XXRDIP-B865D330UB27-4F0-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°	0.4	4.6	12.3	11.6	12.0
92.5°	7.8	10.6	10.9	11.3	11.3
95°	18.3	21.9	22.6	22.6	21.9
97.5°	30.7	33.8	35.2	35.2	35.2
100°	44.8	47.6	48.6	48.6	48.3
102.5°	59.6	61.7	63.1	63.4	63.1
105°	75.8	76.8	77.5	78.3	78.3
107.5°	92.0	93.4	93.4	93.8	92.0
110°	107.5	109.6	109.6	109.6	108.6



TEST NUMBER: P1000103

CATALOG NUMBER: SA2XXRDIP-B865D330UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	124.4	126.5	126.2	125.1	124.4
115°	141.0	143.1	142.4	142.1	141.0
117.5°	157.6	160.4	158.6	157.6	156.5
120°	174.1	176.9	174.1	174.1	173.1
122.5°	189.3	192.8	191.0	190.0	189.3
125°	205.1	208.3	207.3	206.2	205.9
127.5°	220.7	224.5	223.1	221.7	220.7
130°	235.1	239.7	239.0	238.3	236.9
132.5°	251.3	254.9	255.2	253.4	252.4
135°	265.4	269.3	270.0	269.7	268.6
137.5°	280.9	284.1	284.8	284.5	283.0
140°	294.7	297.9	299.6	299.6	298.2
142.5°	308.8	312.0	313.0	313.4	312.0
145°	322.2	324.6	326.8	327.1	325.7
147.5°	334.2	337.3	338.7	339.4	338.0
150°	346.5	348.6	350.0	351.1	350.0
152.5°	357.4	359.5	361.3	362.7	361.3
155°	368.4	369.4	370.5	372.2	371.2
157.5°	377.9	378.6	379.3	381.7	380.0
160°	386.3	387.0	387.4	389.5	388.1
162.5°	394.1	394.1	394.4	396.9	395.1
165°	400.8	400.4	400.4	402.9	401.1
167.5°	406.8	405.7	405.7	408.2	406.4
170°	411.4	410.3	409.9	412.4	410.3
172.5°	414.5	413.5	413.1	415.6	413.5
175°	417.0	415.9	415.2	417.7	415.6
177.5°	418.4	417.3	416.6	418.8	416.6
180°	417.7	417.7	417.7	417.7	417.7

(END OF REPORT)