

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: P1000165

Luminaire Tested: SA2XXRDIP-B865D530UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000165
REPORT IS A COMBINATION OF REPORTS P988725 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D530UB35-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

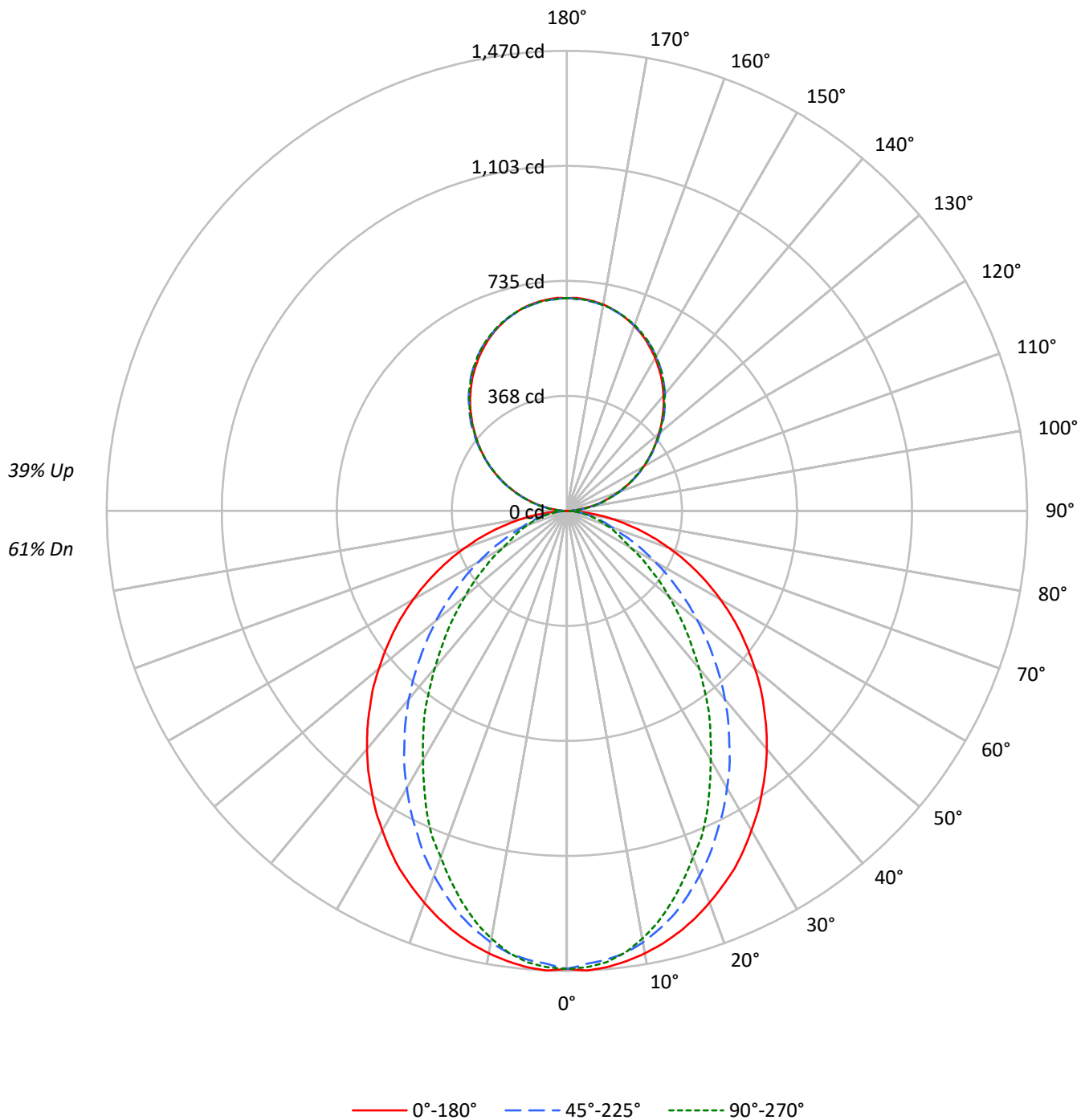
Lumens per Lamp: N/A
Luminaire Lumens: 4913.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	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°	23168	23168	23168
5°	23205	22040	21878
10°	22975	20905	20215
15°	22660	19562	18318
20°	22242	18036	16337
25°	21815	16472	14523
30°	21240	14947	12542
35°	20676	13409	10840
40°	20106	11900	9088
45°	19440	10340	7560
50°	18751	8839	6156
55°	18034	7337	4886
60°	17202	5867	3698
65°	16243	4474	3006
70°	15084	3244	2390
75°	13633	2476	1826
80°	11529	1676	1226
85°	8052	768	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19440 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	2.8
10°-20°	376.6	7.7
20°-30°	528.7	10.8
30°-40°	576.3	11.7
40°-50°	529.7	10.8
50°-60°	416.0	8.5
60°-70°	270.7	5.5
70°-80°	139.4	2.8
80°-90°	37.6	0.8
90°-100°	42.1	0.9
100°-110°	133.7	2.7
110°-120°	228.8	4.7
120°-130°	300.9	6.1
130°-140°	337.8	6.9
140°-150°	331.2	6.7
150°-160°	277.9	5.7
160°-170°	184.3	3.8
170°-180°	64.4	1.3
0°-30°	1042.4	21.2
0°-40°	1618.7	32.9
0°-60°	2564.3	52.2
0°-90°	3012.0	61.3
90°-120°	404.6	8.2
90°-150°	1374.5	28.0
90°-180°	1901.0	38.7
0°-180°	4913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1464	1457	1440	1452	1448	139
15°	1392	1378	1332	1307	1294	392
25°	1264	1221	1134	1080	1060	581
35°	1089	1021	905	821	792	681
45°	890	801	662	568	536	687
55°	677	574	430	351	326	605
65°	457	350	230	185	182	453
75°	244	151	106	97	95	258
85°	57	29	25	25	25	65
90°	1	8	20	19	20	5
95°	30	36	37	37	36	33
105°	123	125	126	127	127	130
115°	230	233	232	231	230	227
125°	334	339	337	336	335	298
135°	432	438	440	439	437	334
145°	524	528	532	532	530	328
155°	600	601	603	606	604	276
165°	652	652	652	656	653	184
175°	679	677	676	680	676	64
180°	680	680	680	680	680	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.6	1463.6	1463.6	1463.6	1463.6
2.5°	1470.2	1463.6	1449.0	1462.2	1459.6
5°	1463.6	1456.9	1439.7	1451.6	1447.7
7.5°	1451.6	1443.7	1425.2	1430.4	1423.8
10°	1435.7	1426.5	1400.0	1396.0	1388.1
12.5°	1415.9	1404.0	1368.2	1360.3	1345.7
15°	1392.0	1377.5	1332.4	1307.3	1294.0
17.5°	1364.2	1343.0	1287.4	1258.3	1237.1
20°	1332.4	1305.9	1239.7	1206.6	1177.5
22.5°	1298.0	1267.5	1190.7	1145.7	1125.8
25°	1263.6	1221.2	1133.8	1079.5	1059.6
27.5°	1222.5	1177.5	1080.8	1018.5	988.1
30°	1178.8	1128.5	1022.5	955.0	919.2
32.5°	1136.4	1075.5	966.9	887.4	854.3
35°	1088.7	1021.2	904.6	821.2	792.0
37.5°	1042.4	969.5	846.3	755.0	721.8
40°	993.4	913.9	785.4	691.4	656.9
42.5°	943.0	858.3	724.5	626.5	593.4
45°	890.1	801.3	662.2	568.2	536.4
47.5°	839.7	745.7	602.6	508.6	479.5
50°	784.1	690.1	544.4	453.0	425.2
52.5°	729.8	630.5	488.7	401.3	376.2
55°	676.8	573.5	430.5	351.0	325.8
57.5°	622.5	516.6	378.8	304.6	283.4
60°	566.9	460.9	324.5	257.0	235.8
62.5°	512.6	406.6	278.1	214.6	204.0
65°	456.9	349.7	230.5	185.4	181.5
67.5°	404.0	296.7	185.4	162.9	158.9
70°	348.3	245.0	153.6	140.4	135.1
72.5°	295.4	197.3	128.5	117.9	115.2
75°	243.7	151.0	106.0	96.7	95.4
77.5°	192.1	107.3	83.4	78.1	75.5
80°	144.4	76.8	63.6	58.3	58.3
82.5°	100.7	51.7	43.7	41.1	41.1
85°	57.0	29.1	25.2	25.2	25.2
87.5°	21.2	10.6	10.6	9.3	9.3
90°	0.6	7.5	20.1	18.9	19.5
92.5°	12.6	17.2	17.8	18.4	18.4
95°	29.8	35.6	36.7	36.7	35.6
97.5°	49.9	55.1	57.4	57.4	57.4
100°	72.9	77.5	79.2	79.2	78.6
102.5°	97.0	100.4	102.7	103.3	102.7
105°	123.4	125.1	126.2	127.4	127.4
107.5°	149.8	152.1	152.1	152.6	149.8
110°	175.0	178.5	178.5	178.5	176.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	202.6	206.0	205.4	203.7	202.6
115°	229.5	233.0	231.8	231.2	229.5
117.5°	256.5	261.1	258.2	256.5	254.8
120°	283.5	288.1	283.5	283.5	281.7
122.5°	308.1	313.9	311.0	309.3	308.1
125°	334.0	339.1	337.4	335.7	335.1
127.5°	359.2	365.5	363.2	360.9	359.2
130°	382.7	390.2	389.0	387.9	385.6
132.5°	409.1	414.9	415.4	412.6	410.9
135°	432.1	438.4	439.5	439.0	437.2
137.5°	457.3	462.5	463.6	463.1	460.8
140°	479.7	484.9	487.7	487.7	485.4
142.5°	502.7	507.8	509.5	510.1	507.8
145°	524.5	528.5	531.9	532.5	530.2
147.5°	544.0	549.1	551.4	552.6	550.3
150°	564.1	567.5	569.8	571.5	569.8
152.5°	581.8	585.3	588.2	590.5	588.2
155°	599.6	601.4	603.1	605.9	604.2
157.5°	615.1	616.3	617.4	621.4	618.6
160°	628.9	630.0	630.6	634.1	631.8
162.5°	641.5	641.5	642.1	646.1	643.2
165°	652.4	651.9	651.9	655.9	653.0
167.5°	662.2	660.5	660.5	664.5	661.6
170°	669.6	667.9	667.3	671.4	667.9
172.5°	674.8	673.1	672.5	676.5	673.1
175°	678.8	677.1	676.0	680.0	676.5
177.5°	681.1	679.4	678.2	681.7	678.2
180°	680.0	680.0	680.0	680.0	680.0

(END OF REPORT)