

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: P999571

Luminaire Tested: SA2XXRDIP-B290D530UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999571
REPORT IS A COMBINATION OF REPORTS P988124 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D530UB35-4F0-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

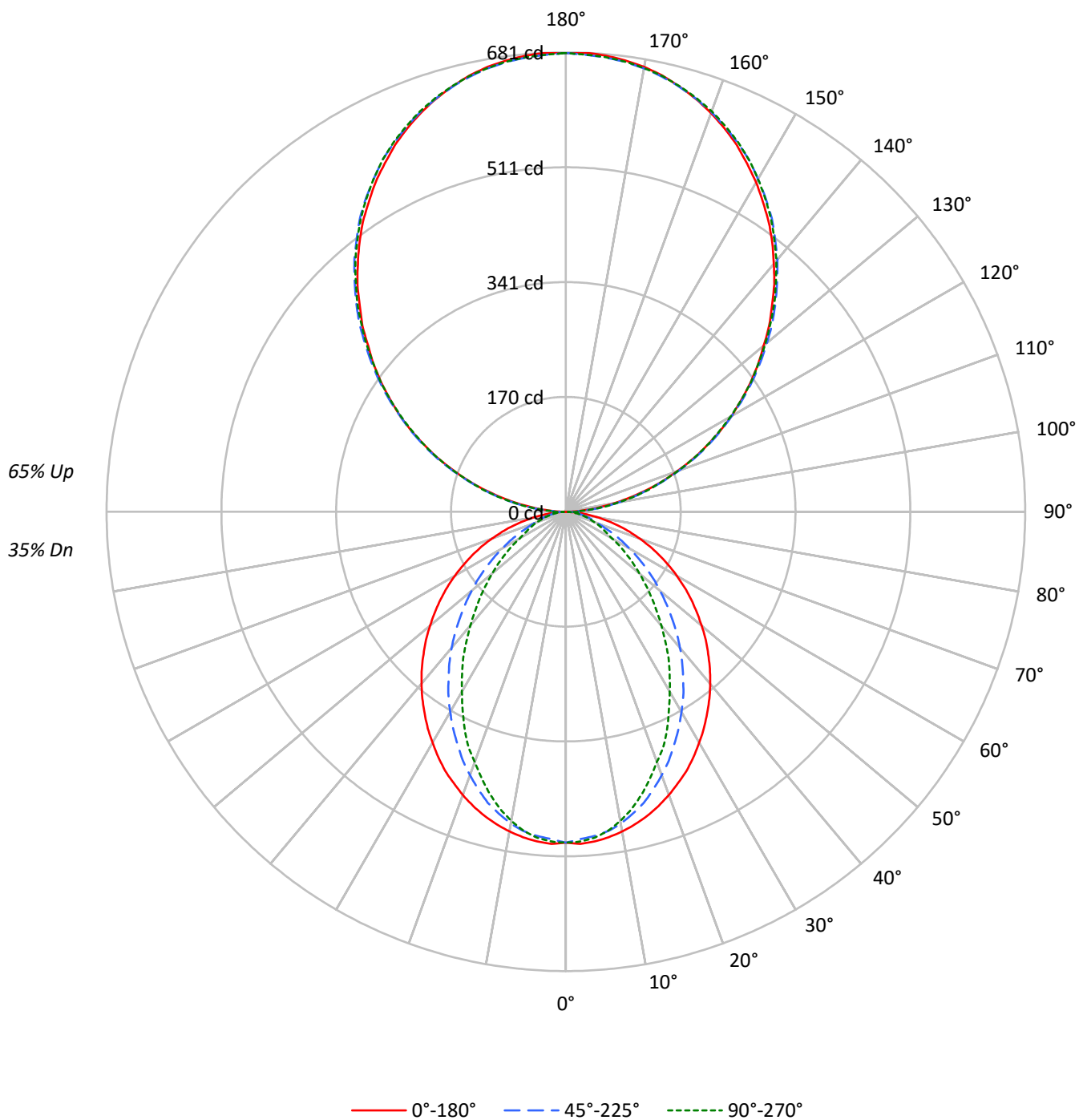
Lumens per Lamp: N/A
Luminaire Lumens: 2912.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42
1	95	91	87	84	85	82	79	76	66	64	62	51	50	49	38	37	36
2	86	79	74	69	78	72	67	63	58	55	52	45	43	41	34	32	31
3	79	70	63	58	71	64	58	53	52	47	44	40	38	35	30	28	27
4	72	62	55	49	65	57	50	45	46	41	38	36	33	30	27	25	23
5	67	55	48	42	60	51	44	39	41	36	33	33	29	26	24	22	20
6	61	50	42	36	55	45	39	34	37	32	28	30	26	23	22	20	18
7	57	45	37	32	51	41	34	30	34	29	25	27	23	21	20	18	16
8	53	41	33	28	48	37	31	26	31	26	22	25	21	18	19	16	15
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	17	15	13
10	46	34	27	23	41	31	25	21	26	21	18	21	17	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7766	7766	7766
5°	7778	7388	7334
10°	7702	7007	6776
15°	7596	6558	6141
20°	7457	6047	5476
25°	7313	5522	4868
30°	7121	5011	4204
35°	6932	4494	3634
40°	6740	3989	3046
45°	6517	3467	2534
50°	6284	2963	2063
55°	6046	2459	1638
60°	5765	1967	1239
65°	5446	1500	1007
70°	5058	1088	801
75°	4570	829	612
80°	3864	561	410
85°	2698	256	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	1.6
10°-20°	126.2	4.3
20°-30°	177.2	6.1
30°-40°	193.2	6.6
40°-50°	177.6	6.1
50°-60°	139.4	4.8
60°-70°	90.8	3.1
70°-80°	46.7	1.6
80°-90°	13.9	0.5
90°-100°	42.1	1.4
100°-110°	133.7	4.6
110°-120°	228.8	7.9
120°-130°	300.9	10.3
130°-140°	337.8	11.6
140°-150°	331.2	11.4
150°-160°	277.9	9.5
160°-170°	184.3	6.3
170°-180°	64.4	2.2
0°-30°	349.4	12.0
0°-40°	542.6	18.6
0°-60°	859.6	29.5
0°-90°	1011.0	34.7
90°-120°	404.6	13.9
90°-150°	1374.5	47.2
90°-180°	1901.0	65.3
0°-180°	2912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	491	491	491	491	491	
5°	491	488	483	487	485	47
15°	467	462	447	438	434	131
25°	424	409	380	362	355	195
35°	365	342	303	275	266	228
45°	298	269	222	190	180	230
55°	227	192	144	118	109	203
65°	153	117	77	62	61	152
75°	82	51	36	32	32	86
85°	19	10	8	8	8	22
90°	1	8	20	19	20	3
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°	490.6	490.6	490.6	490.6	490.6
2.5°	492.8	490.6	485.7	490.2	489.3
5°	490.6	488.4	482.6	486.6	485.3
7.5°	486.6	483.9	477.7	479.5	477.3
10°	481.3	478.2	469.3	468.0	465.3
12.5°	474.6	470.6	458.6	456.0	451.1
15°	466.6	461.7	446.7	438.2	433.8
17.5°	457.3	450.2	431.6	421.8	414.7
20°	446.7	437.8	415.6	404.5	394.7
22.5°	435.1	424.9	399.1	384.1	377.4
25°	423.6	409.4	380.1	361.9	355.2
27.5°	409.8	394.7	362.3	341.4	331.2
30°	395.2	378.3	342.8	320.1	308.1
32.5°	380.9	360.5	324.1	297.5	286.4
35°	365.0	342.3	303.2	275.3	265.5
37.5°	349.4	325.0	283.7	253.1	242.0
40°	333.0	306.4	263.3	231.8	220.2
42.5°	316.1	287.7	242.9	210.0	198.9
45°	298.4	268.6	222.0	190.5	179.8
47.5°	281.5	250.0	202.0	170.5	160.7
50°	262.8	231.3	182.5	151.8	142.5
52.5°	244.6	211.3	163.8	134.5	126.1
55°	226.9	192.2	144.3	117.7	109.2
57.5°	208.7	173.2	127.0	102.1	95.0
60°	190.0	154.5	108.8	86.1	79.0
62.5°	171.8	136.3	93.2	71.9	68.4
65°	153.2	117.2	77.3	62.2	60.8
67.5°	135.4	99.5	62.2	54.6	53.3
70°	116.8	82.1	51.5	47.1	45.3
72.5°	99.0	66.2	43.1	39.5	38.6
75°	81.7	50.6	35.5	32.4	32.0
77.5°	64.4	36.0	28.0	26.2	25.3
80°	48.4	25.8	21.3	19.5	19.5
82.5°	33.7	17.3	14.7	13.8	13.8
85°	19.1	9.8	8.4	8.4	8.4
87.5°	7.1	3.6	3.6	3.1	3.1
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)