

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: P999769

Luminaire Tested: SA2XXRDIP-B485D530UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999769
REPORT IS A COMBINATION OF REPORTS P988324 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D530UB35-4F0-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

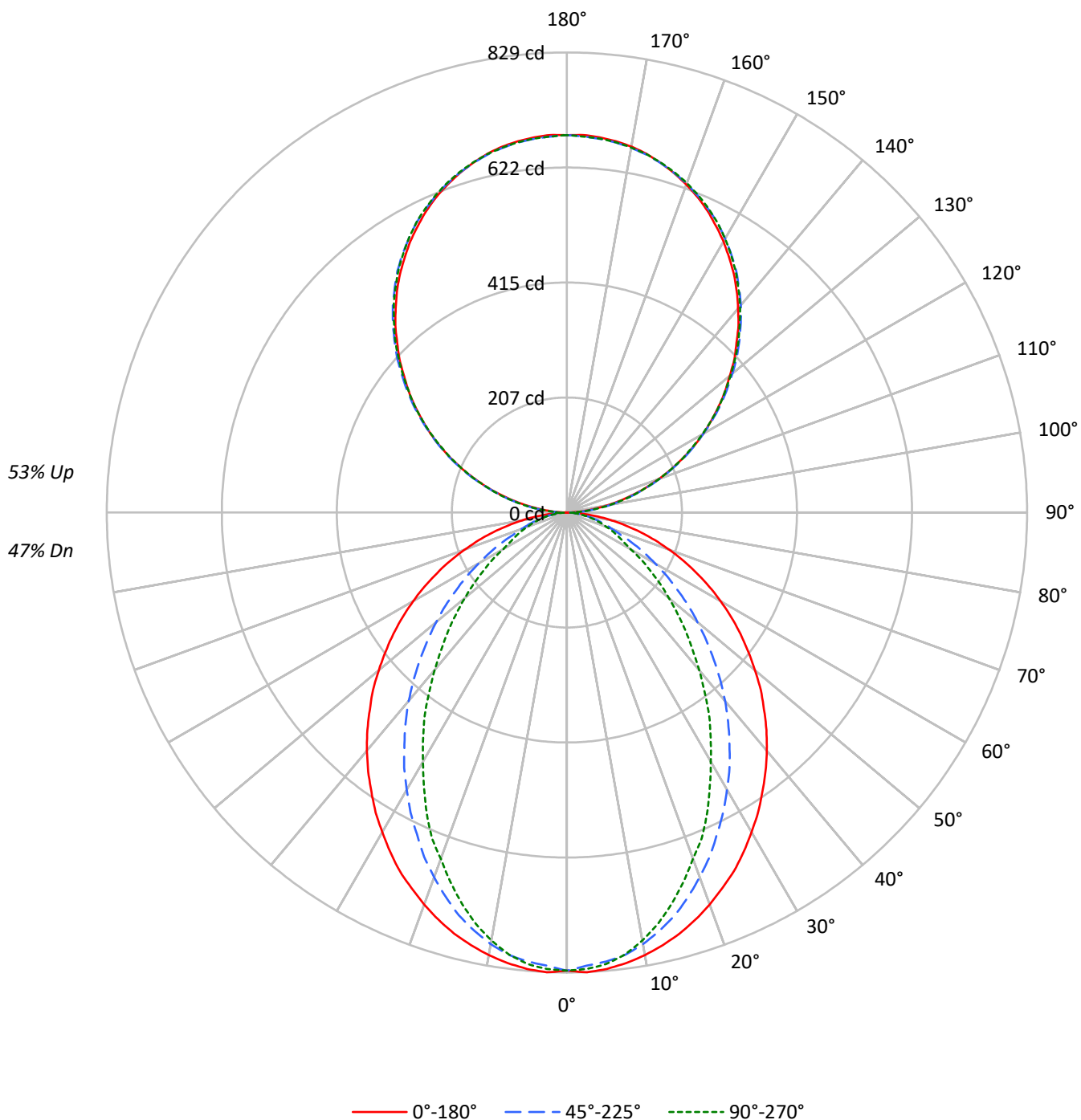
Lumens per Lamp: N/A
Luminaire Lumens: 3601.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	43	41	40
3	82	73	66	60	75	67	61	56	57	52	48	47	44	41	38	36	34
4	75	65	57	51	69	60	53	48	51	46	42	42	39	36	35	32	30
5	69	58	50	44	63	54	47	41	46	40	36	38	34	31	31	29	26
6	64	52	44	38	58	48	41	36	41	36	32	35	31	28	29	26	23
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19
9	51	39	32	27	47	37	30	25	32	26	23	27	23	20	22	19	17
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13069	13069	13069
5°	13090	12434	12342
10°	12961	11793	11403
15°	12784	11036	10334
20°	12548	10176	9216
25°	12306	9292	8192
30°	11982	8432	7075
35°	11665	7564	6115
40°	11342	6713	5127
45°	10966	5834	4265
50°	10577	4986	3472
55°	10174	4138	2757
60°	9704	3310	2086
65°	9165	2523	1696
70°	8510	1831	1348
75°	7692	1397	1030
80°	6499	946	692
85°	4534	433	334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	2.1
10°-20°	212.4	5.9
20°-30°	298.2	8.3
30°-40°	325.1	9.0
40°-50°	298.8	8.3
50°-60°	234.7	6.5
60°-70°	152.7	4.2
70°-80°	78.6	2.2
80°-90°	22.0	0.6
90°-100°	42.1	1.2
100°-110°	133.7	3.7
110°-120°	228.8	6.4
120°-130°	300.9	8.4
130°-140°	337.8	9.4
140°-150°	331.2	9.2
150°-160°	277.9	7.7
160°-170°	184.3	5.1
170°-180°	64.4	1.8
0°-30°	588.0	16.3
0°-40°	913.1	25.4
0°-60°	1446.5	40.2
0°-90°	1699.9	47.2
90°-120°	404.6	11.2
90°-150°	1374.5	38.2
90°-180°	1901.0	52.8
0°-180°	3601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	826	822	812	819	817	78
15°	785	777	752	738	730	221
25°	713	689	640	609	598	328
35°	614	576	510	463	447	384
45°	502	452	374	320	303	388
55°	382	324	243	198	184	341
65°	258	197	130	105	102	256
75°	138	85	60	54	54	145
85°	32	16	14	14	14	37
90°	1	8	20	19	20	4
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°	825.6	825.6	825.6	825.6	825.6
2.5°	829.4	825.6	817.4	824.9	823.4
5°	825.6	821.9	812.2	818.9	816.7
7.5°	818.9	814.4	804.0	806.9	803.2
10°	809.9	804.7	789.8	787.5	783.0
12.5°	798.7	792.0	771.8	767.3	759.1
15°	785.3	777.1	751.7	737.5	730.0
17.5°	769.6	757.6	726.2	709.8	697.9
20°	751.7	736.7	699.4	680.7	664.2
22.5°	732.2	715.0	671.7	646.3	635.1
25°	712.8	688.9	639.6	608.9	597.7
27.5°	689.6	664.2	609.7	574.6	557.4
30°	665.0	636.6	576.8	538.7	518.5
32.5°	641.1	606.7	545.4	500.6	481.9
35°	614.2	576.1	510.3	463.2	446.8
37.5°	588.0	546.9	477.4	425.9	407.2
40°	560.4	515.5	443.1	390.0	370.6
42.5°	532.0	484.2	408.7	353.4	334.7
45°	502.1	452.0	373.6	320.5	302.6
47.5°	473.7	420.7	340.0	286.9	270.5
50°	442.3	389.3	307.1	255.5	239.8
52.5°	411.7	355.7	275.7	226.4	212.2
55°	381.8	323.5	242.8	198.0	183.8
57.5°	351.2	291.4	213.7	171.8	159.9
60°	319.8	260.0	183.1	145.0	133.0
62.5°	289.2	229.4	156.9	121.0	115.1
65°	257.8	197.3	130.0	104.6	102.4
67.5°	227.9	167.4	104.6	91.9	89.7
70°	196.5	138.2	86.7	79.2	76.2
72.5°	166.6	111.3	72.5	66.5	65.0
75°	137.5	85.2	59.8	54.5	53.8
77.5°	108.3	60.5	47.1	44.1	42.6
80°	81.4	43.3	35.9	32.9	32.9
82.5°	56.8	29.1	24.7	23.2	23.2
85°	32.1	16.4	14.2	14.2	14.2
87.5°	12.0	6.0	6.0	5.2	5.2
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)