

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: P1026479

Luminaire Tested: S124RDIP-B575D590UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026479
REPORT IS A COMBINATION OF REPORTS P999559 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D590UB30-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

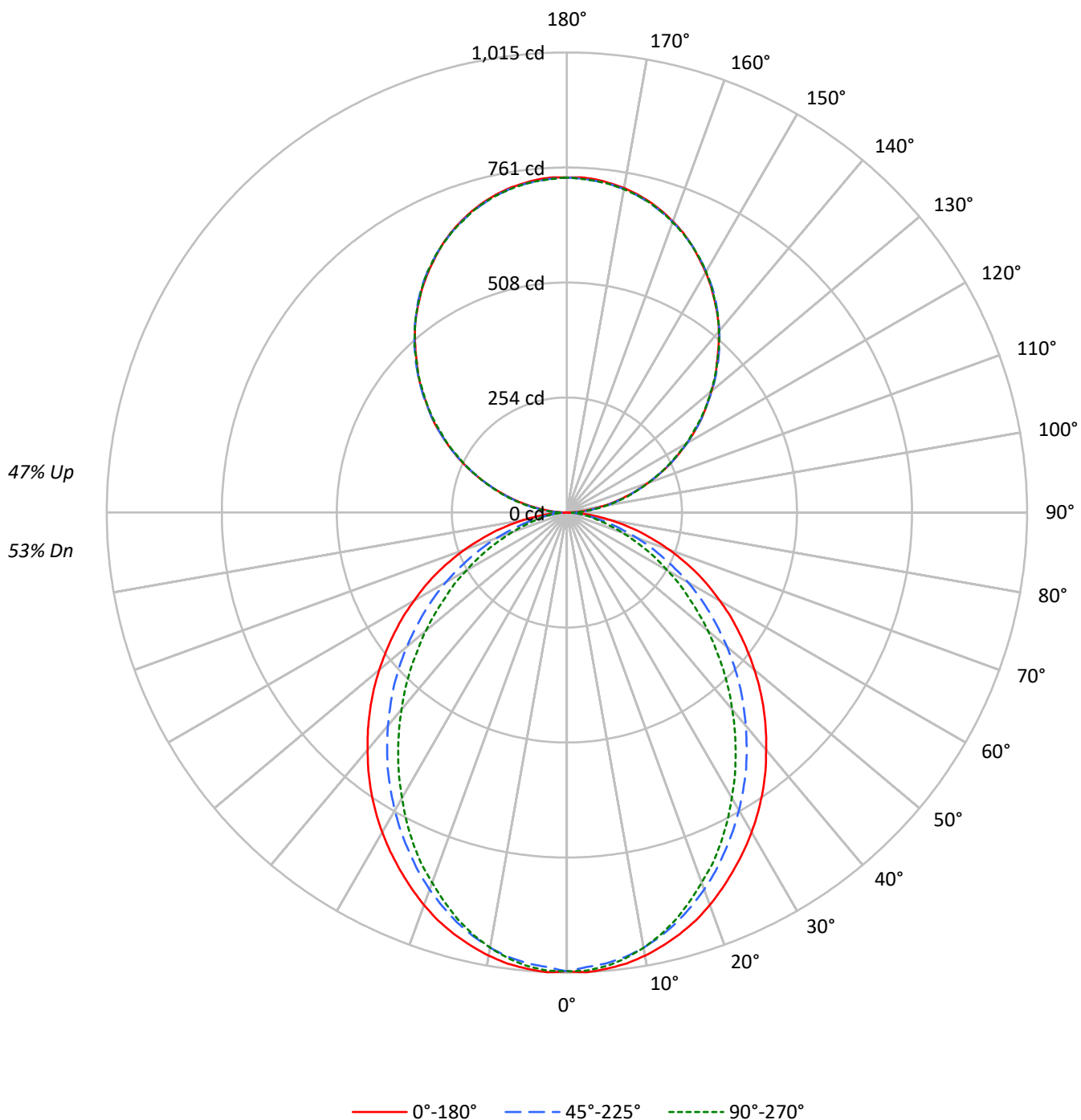
Lumens per Lamp: N/A
Luminaire Lumens: 4391.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59
1	99	95	91	87	91	88	85	82	75	73	71	63	62	60	53	52	51
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43
3	82	73	66	60	76	68	62	57	59	54	50	50	46	43	42	39	37
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	37	34	32
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	31	28
6	64	52	44	38	59	49	42	36	42	37	32	36	32	29	31	27	25
7	59	47	39	34	55	44	37	32	38	33	29	33	29	25	28	25	22
8	55	43	35	30	51	40	33	28	35	30	26	30	26	23	26	22	20
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	21	18
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8255	8255	8255
5°	8255	8009	8010
10°	8185	7757	7665
15°	8073	7442	7257
20°	7925	7084	6791
25°	7741	6696	6337
30°	7561	6301	5826
35°	7363	5901	5328
40°	7127	5470	4815
45°	6907	5043	4308
50°	6655	4576	3792
55°	6384	4098	3261
60°	6082	3589	2736
65°	5791	3006	2230
70°	5379	2393	1704
75°	4847	1741	1192
80°	4047	1069	857
85°	3049	615	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6907 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	2.2
10°-20°	265.4	6.0
20°-30°	383.2	8.7
30°-40°	434.3	9.9
40°-50°	419.3	9.5
50°-60°	348.6	7.9
60°-70°	240.6	5.5
70°-80°	121.6	2.8
80°-90°	32.5	0.7
90°-100°	48.2	1.1
100°-110°	144.3	3.3
110°-120°	245.1	5.6
120°-130°	323.2	7.4
130°-140°	363.1	8.3
140°-150°	356.8	8.1
150°-160°	300.1	6.8
160°-170°	199.7	4.5
170°-180°	69.9	1.6
0°-30°	743.8	16.9
0°-40°	1178.0	26.8
0°-60°	1945.9	44.3
0°-90°	2340.6	53.3
90°-120°	437.5	10.0
90°-150°	1480.7	33.7
90°-180°	2050.0	46.7
0°-180°	4391.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1011	1008	998	1006	1004	96
15°	963	956	936	935	929	271
25°	870	856	825	812	804	401
35°	753	728	689	663	649	470
45°	614	585	539	501	487	473
55°	465	434	384	343	329	416
65°	316	283	233	200	191	312
75°	168	140	103	85	81	177
85°	42	26	24	22	22	46
90°	2	8	13	16	17	5
95°	34	39	43	45	45	37
105°	133	134	136	138	140	141
115°	249	249	248	248	247	246
125°	363	363	362	361	360	323
135°	468	472	472	470	469	362
145°	569	571	572	571	569	356
155°	652	652	651	653	651	300
165°	709	708	706	710	708	200
175°	738	735	734	738	734	70
180°	739	739	739	739	739	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1012.3	1012.3	1012.3	1012.3	1012.3
2.5°	1015.4	1012.3	1003.8	1012.3	1011.5
5°	1010.7	1007.6	998.3	1006.1	1004.5
7.5°	1003.8	1000.7	989.0	994.5	992.1
10°	992.9	989.0	975.1	978.2	975.1
12.5°	979.0	974.3	957.3	958.8	954.2
15°	962.7	955.7	936.3	934.8	929.4
17.5°	944.1	934.0	911.5	907.6	899.9
20°	921.6	911.5	885.2	879.0	868.9
22.5°	896.8	885.2	856.5	846.4	838.7
25°	870.4	856.5	824.7	811.5	803.8
27.5°	843.3	826.3	792.9	777.4	766.6
30°	814.6	795.3	758.8	739.5	727.0
32.5°	784.4	761.9	723.9	700.7	689.1
35°	752.6	727.8	689.1	662.7	648.8
37.5°	719.3	693.7	651.1	622.4	608.5
40°	683.6	658.1	613.9	581.3	567.4
42.5°	649.5	622.4	575.9	542.6	527.8
45°	613.9	585.2	538.7	500.7	486.8
47.5°	577.5	548.0	499.9	460.4	444.9
50°	540.2	510.0	460.4	421.7	406.9
52.5°	502.3	472.8	421.7	382.1	366.6
55°	465.1	434.1	383.7	343.4	328.6
57.5°	428.6	396.1	346.5	305.4	294.5
60°	389.1	358.1	308.5	268.2	255.8
62.5°	353.4	320.9	269.7	233.3	224.0
65°	316.2	282.9	233.3	200.0	190.7
67.5°	277.5	245.7	199.2	169.7	158.9
70°	241.1	208.5	164.3	138.7	131.0
72.5°	202.3	173.6	132.5	111.6	104.6
75°	168.2	139.5	103.1	85.3	80.6
77.5°	132.5	107.7	76.7	64.3	62.8
80°	98.4	76.0	52.7	50.4	49.6
82.5°	69.0	48.8	38.0	36.4	35.7
85°	41.9	26.4	24.0	22.5	22.5
87.5°	17.8	11.6	10.9	10.1	10.9
90°	1.7	8.0	12.6	16.0	17.1
92.5°	14.9	22.3	25.1	26.9	27.4
95°	34.3	39.4	43.4	45.2	45.2
97.5°	54.9	59.4	64.0	66.3	66.3
100°	80.0	82.3	87.4	88.6	88.6
102.5°	106.3	106.9	111.4	113.2	113.7
105°	133.2	133.7	136.0	137.7	139.5
107.5°	161.2	161.7	162.3	164.6	164.0
110°	189.7	190.9	190.3	189.2	190.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.5	219.5	218.3	218.3	218.3
115°	249.2	249.2	248.0	247.5	246.9
117.5°	277.2	277.2	276.6	274.9	273.2
120°	305.2	307.5	305.8	302.9	304.1
122.5°	334.3	334.9	334.3	332.6	329.8
125°	362.9	362.9	362.3	361.2	360.1
127.5°	388.6	390.4	389.2	388.1	387.5
130°	416.1	417.8	417.8	416.6	414.4
132.5°	444.1	445.2	444.7	443.5	442.9
135°	468.1	471.5	471.5	470.4	468.7
137.5°	494.9	496.7	497.8	496.1	496.7
140°	521.8	522.9	522.9	522.4	521.8
142.5°	546.4	547.5	547.0	547.0	547.0
145°	568.7	571.0	571.5	571.0	569.2
147.5°	591.5	594.4	593.8	593.2	592.7
150°	612.1	614.4	614.4	614.4	613.8
152.5°	631.5	632.7	633.3	635.0	633.3
155°	651.5	651.5	651.0	653.3	651.0
157.5°	668.7	667.5	667.5	669.3	667.5
160°	683.5	683.0	682.4	684.1	681.3
162.5°	697.3	695.6	695.0	698.4	695.6
165°	709.3	707.6	706.4	709.8	707.6
167.5°	719.0	716.7	716.7	720.1	716.7
170°	727.0	724.1	724.7	728.1	724.1
172.5°	732.7	730.4	730.4	734.4	730.4
175°	737.8	735.0	734.4	738.4	734.4
177.5°	740.1	737.3	737.3	741.3	736.7
180°	739.0	739.0	739.0	739.0	739.0

(END OF REPORT)