

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: P1026480

Luminaire Tested: S124RDIP-B575D590UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026480
REPORT IS A COMBINATION OF REPORTS P999560 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-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

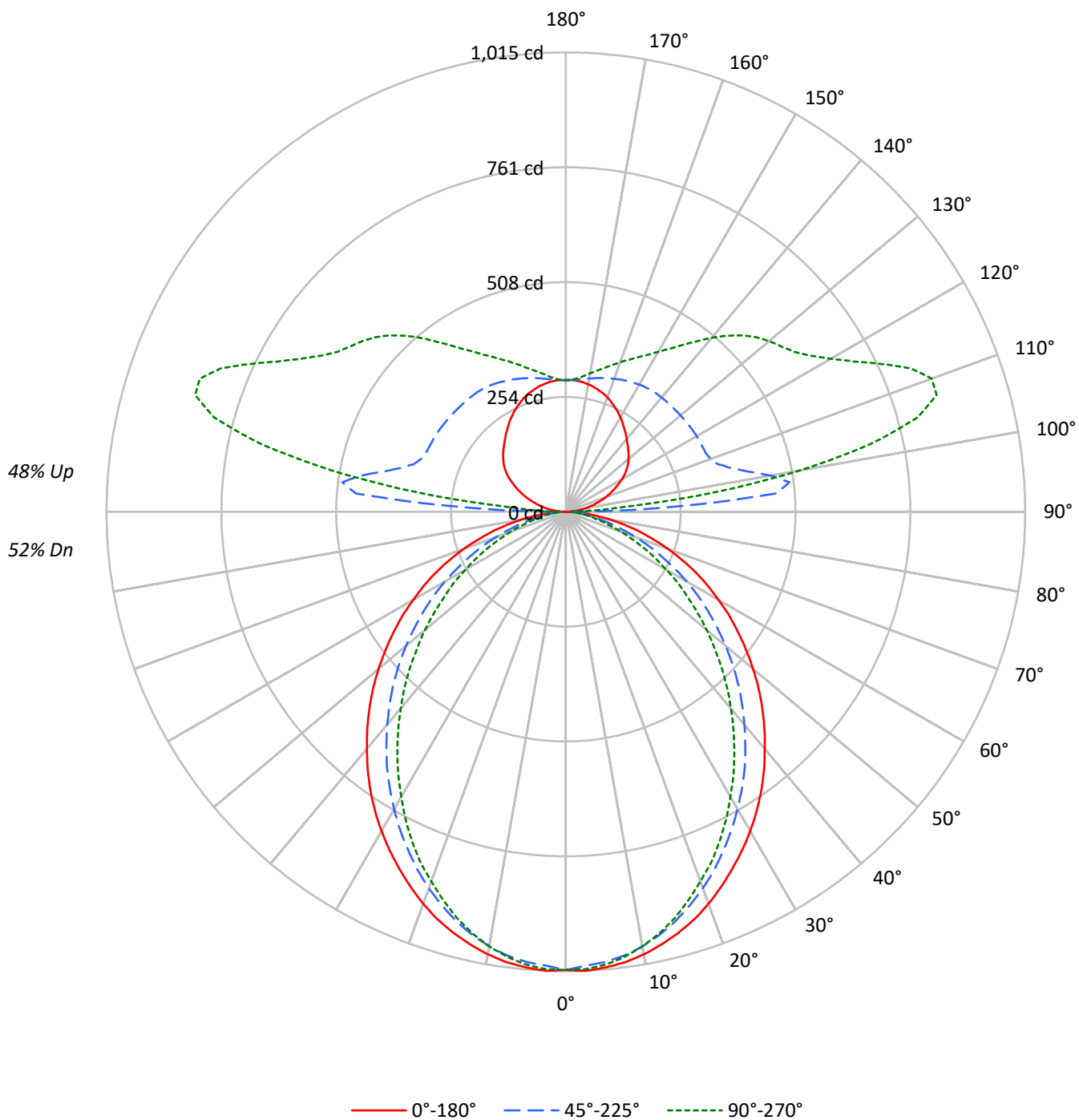
Lumens per Lamp: N/A
Luminaire Lumens: 4463.2 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1026480

CATALOG NUMBER: S124RDIP-B575D590UB30-4F0-XX-W2A-F4

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	71	71	71	58	58	58
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50
2	90	83	77	72	83	77	72	67	66	62	59	56	53	50	46	44	42
3	82	73	66	60	76	68	62	56	58	53	50	49	46	43	41	39	36
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32
5	69	58	50	44	64	54	47	41	47	41	37	40	35	32	33	30	28
6	64	52	44	38	59	49	41	36	42	36	32	36	32	28	30	27	24
7	59	47	39	34	55	44	37	32	38	33	28	33	28	25	28	24	22
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20
9	51	39	32	27	47	37	30	25	32	27	23	28	23	20	24	20	18
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	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

TEST NUMBER: P1026480

CATALOG NUMBER: S124RDIP-B575D590UB30-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	2.1
10°-20°	265.4	5.9
20°-30°	383.2	8.6
30°-40°	434.3	9.7
40°-50°	419.3	9.4
50°-60°	348.6	7.8
60°-70°	240.6	5.4
70°-80°	121.6	2.7
80°-90°	32.0	0.7
90°-100°	216.1	4.8
100°-110°	439.5	9.8
110°-120°	391.8	8.8
120°-130°	329.1	7.4
130°-140°	274.6	6.2
140°-150°	209.7	4.7
150°-160°	147.4	3.3
160°-170°	86.7	1.9
170°-180°	28.2	0.6
0°-30°	743.8	16.7
0°-40°	1178.0	26.4
0°-60°	1945.9	43.6
0°-90°	2340.1	52.4
90°-120°	1047.4	23.5
90°-150°	1860.8	41.7
90°-180°	2123.0	47.6
0°-180°	4463.2	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°	1	5	10	11	12	4
95°	19	59	466	231	140	21
105°	67	97	375	807	804	71
115°	118	148	334	642	772	117
125°	164	195	333	547	616	146
135°	195	232	330	485	551	151
145°	225	257	328	409	450	141
155°	256	276	319	361	377	118
165°	278	287	306	324	329	79
175°	290	291	293	297	296	28
180°	291	291	291	291	291	

TEST NUMBER: P1026480

CATALOG NUMBER: S124RDIP-B575D590UB30-4F0-XX-W2A-F4

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°	0.6	4.6	10.3	11.4	12.0
92.5°	8.0	44.0	224.0	74.1	52.0
95°	18.9	59.4	465.8	230.6	139.5
97.5°	31.4	65.7	498.4	471.0	334.9
100°	43.4	74.3	459.5	651.6	524.1
102.5°	54.9	84.6	410.9	764.8	688.7
105°	66.9	96.9	374.9	807.3	804.2
107.5°	80.0	109.4	351.5	794.5	859.0
110°	93.2	122.0	340.6	748.8	860.2



TEST NUMBER: P1026480

CATALOG NUMBER: S124RDIP-B575D590UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.7	134.6	335.5	692.8	826.5
115°	117.7	147.8	334.4	642.4	772.2
117.5°	130.3	160.0	333.8	603.0	719.0
120°	142.9	172.0	333.8	576.4	675.6
122.5°	154.3	183.8	333.2	559.0	641.3
125°	164.0	194.9	332.6	546.7	616.1
127.5°	173.2	205.2	331.5	535.0	600.1
130°	180.6	215.2	330.9	521.0	586.4
132.5°	188.0	223.8	330.4	504.4	571.0
135°	194.9	232.0	329.8	485.2	551.0
137.5°	201.8	239.2	329.8	464.6	527.5
140°	209.2	245.8	329.2	444.7	501.8
142.5°	217.2	251.8	329.2	426.1	474.4
145°	224.6	257.2	328.1	409.2	449.8
147.5°	233.2	262.4	326.4	395.2	427.0
150°	241.2	267.2	324.6	382.4	408.1
152.5°	248.6	271.8	321.8	371.5	390.9
155°	255.5	275.8	318.9	361.2	376.7
157.5°	262.3	279.5	316.1	351.5	363.5
160°	268.6	282.6	312.6	341.8	351.5
162.5°	274.3	285.2	309.2	332.4	340.1
165°	278.3	286.9	305.8	323.8	328.6
167.5°	282.9	288.4	302.4	316.4	319.5
170°	285.8	289.5	298.9	309.0	310.9
172.5°	288.6	290.4	295.5	302.4	302.4
175°	290.4	290.9	293.2	297.2	296.1
177.5°	291.5	290.9	291.5	293.5	291.5
180°	290.9	290.9	290.9	290.9	290.9

(END OF REPORT)