

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: P1013392

Luminaire Tested: S124RDIP-B575D810UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013392
REPORT IS A COMBINATION OF REPORTS P999591 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D810UB2750-4F0-XX-W2A-F_3000K
Description: Define 4 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

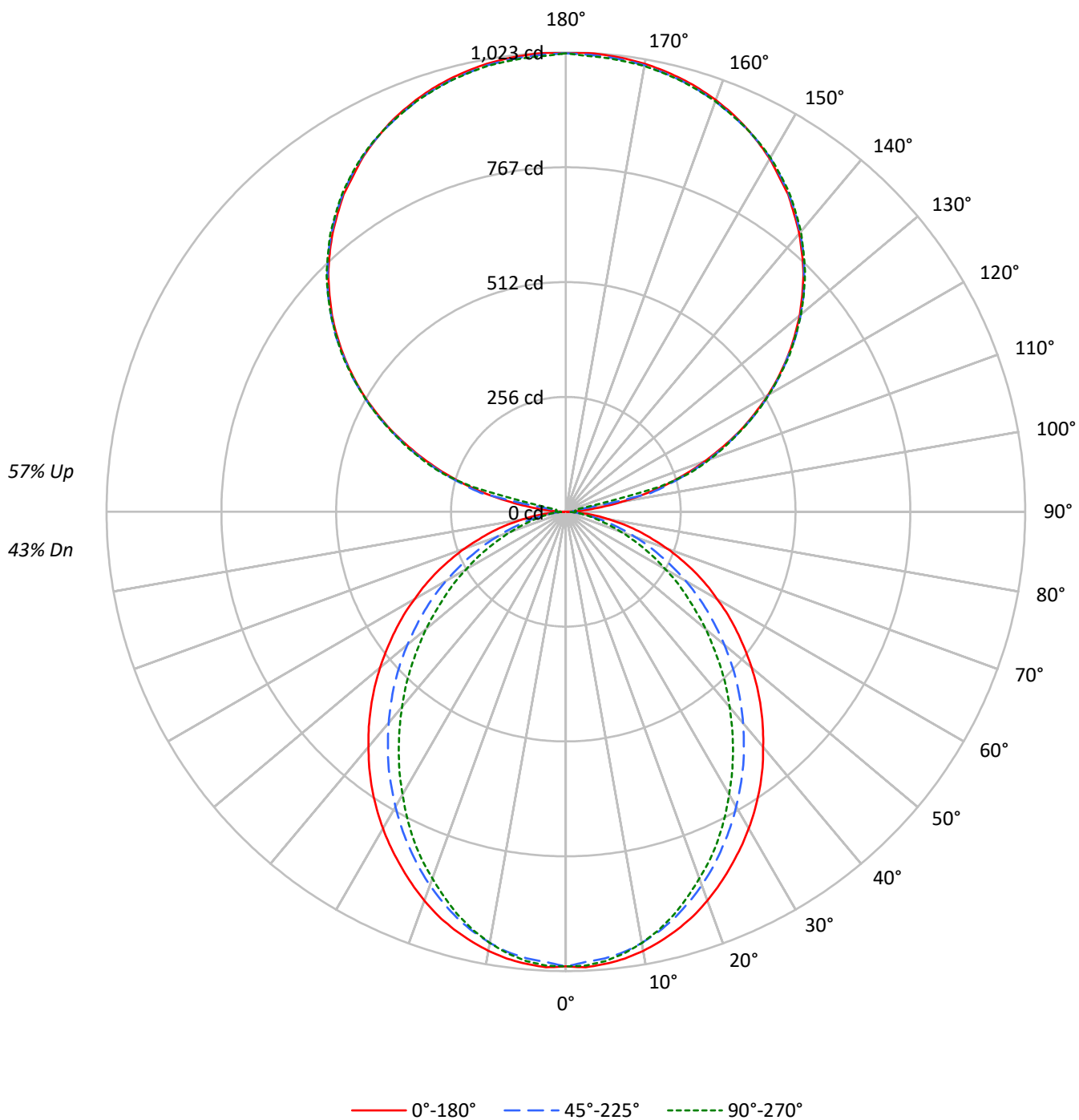
Lumens per Lamp: N/A
Luminaire Lumens: 5500.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49
1	96	92	88	85	88	84	81	78	70	68	65	56	55	53	44	43	42
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31
4	74	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27
5	68	56	48	42	61	52	45	40	43	38	34	35	32	29	28	25	23
6	62	50	43	37	57	46	40	34	39	34	30	32	28	25	26	23	21
7	58	46	38	32	52	42	35	30	35	30	26	29	25	22	23	21	18
8	53	41	34	29	49	38	31	27	32	27	23	27	23	20	21	19	16
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15
10	46	35	28	23	42	32	26	21	27	22	19	23	19	16	18	16	14

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	1.7
10°-20°	265.4	4.8
20°-30°	383.2	7.0
30°-40°	434.3	7.9
40°-50°	419.3	7.6
50°-60°	348.6	6.3
60°-70°	240.6	4.4
70°-80°	121.6	2.2
80°-90°	33.0	0.6
90°-100°	33.9	0.6
100°-110°	223.2	4.1
110°-120°	426.1	7.7
120°-130°	541.0	9.8
130°-140°	578.7	10.5
140°-150°	541.2	9.8
150°-160°	436.4	7.9
160°-170°	281.4	5.1
170°-180°	97.0	1.8
0°-30°	743.8	13.5
0°-40°	1178.0	21.4
0°-60°	1945.9	35.4
0°-90°	2341.1	42.6
90°-120°	683.2	12.4
90°-150°	2344.0	42.6
90°-180°	3159.0	57.4
0°-180°	5500.0	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	11	17	21	23	5
95°	42	16	17	21	22	52
105°	230	234	238	245	218	241
115°	429	431	431	432	432	422
125°	603	606	605	607	608	539
135°	748	748	751	752	754	577
145°	863	865	865	866	867	539
155°	946	947	944	948	945	436
165°	998	994	994	1000	993	282
175°	1021	1016	1017	1024	1015	97
180°	1021	1021	1021	1021	1021	

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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°	2.3	10.7	16.8	21.4	22.9
92.5°	11.5	9.9	16.0	20.6	20.6
95°	42.0	16.0	16.8	21.4	22.1
97.5°	80.2	97.0	16.8	20.6	21.4
100°	125.2	139.0	33.6	20.6	21.4
102.5°	175.6	184.8	193.9	22.1	22.1
105°	229.8	234.4	238.2	245.1	217.6
107.5°	279.5	281.7	287.1	290.9	294.0
110°	329.9	332.1	336.7	338.2	340.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	378.7	383.3	384.8	384.1	387.1
115°	429.1	431.4	430.6	432.2	432.2
117.5°	474.2	477.2	479.5	478.7	478.7
120°	520.0	523.0	522.3	523.8	522.3
122.5°	562.7	564.3	565.8	566.5	565.0
125°	603.2	606.3	604.7	607.0	607.8
127.5°	642.1	642.9	646.7	646.0	645.2
130°	679.6	680.3	682.6	683.4	683.4
132.5°	713.9	715.4	718.5	719.3	718.5
135°	748.3	747.5	750.6	752.1	753.6
137.5°	778.8	778.8	782.6	784.2	783.4
140°	808.6	810.1	811.6	813.9	814.7
142.5°	835.3	838.4	839.1	840.7	840.7
145°	862.8	865.1	865.1	865.9	867.4
147.5°	884.2	888.8	888.0	888.8	889.5
150°	907.9	910.9	910.1	910.1	910.9
152.5°	927.7	930.0	928.5	930.0	929.2
155°	946.0	946.8	944.5	947.6	945.3
157.5°	962.1	962.1	959.0	962.8	959.0
160°	975.8	973.5	972.8	977.3	972.8
162.5°	988.0	985.0	984.2	988.8	983.4
165°	998.0	994.1	994.1	1000.2	993.4
167.5°	1006.3	1002.5	1001.8	1008.6	1001.0
170°	1013.2	1008.6	1009.4	1015.5	1007.9
172.5°	1017.8	1013.2	1014.0	1020.1	1011.7
175°	1020.9	1016.3	1017.0	1023.9	1014.7
177.5°	1023.1	1017.8	1019.3	1025.4	1016.3
180°	1020.9	1020.9	1020.9	1020.9	1020.9

(END OF REPORT)