

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: P1026502

Luminaire Tested: S124RDIP-B575D810UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026502
REPORT IS A COMBINATION OF REPORTS P999582 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D810UB27-4F0-XX-W2A-F
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

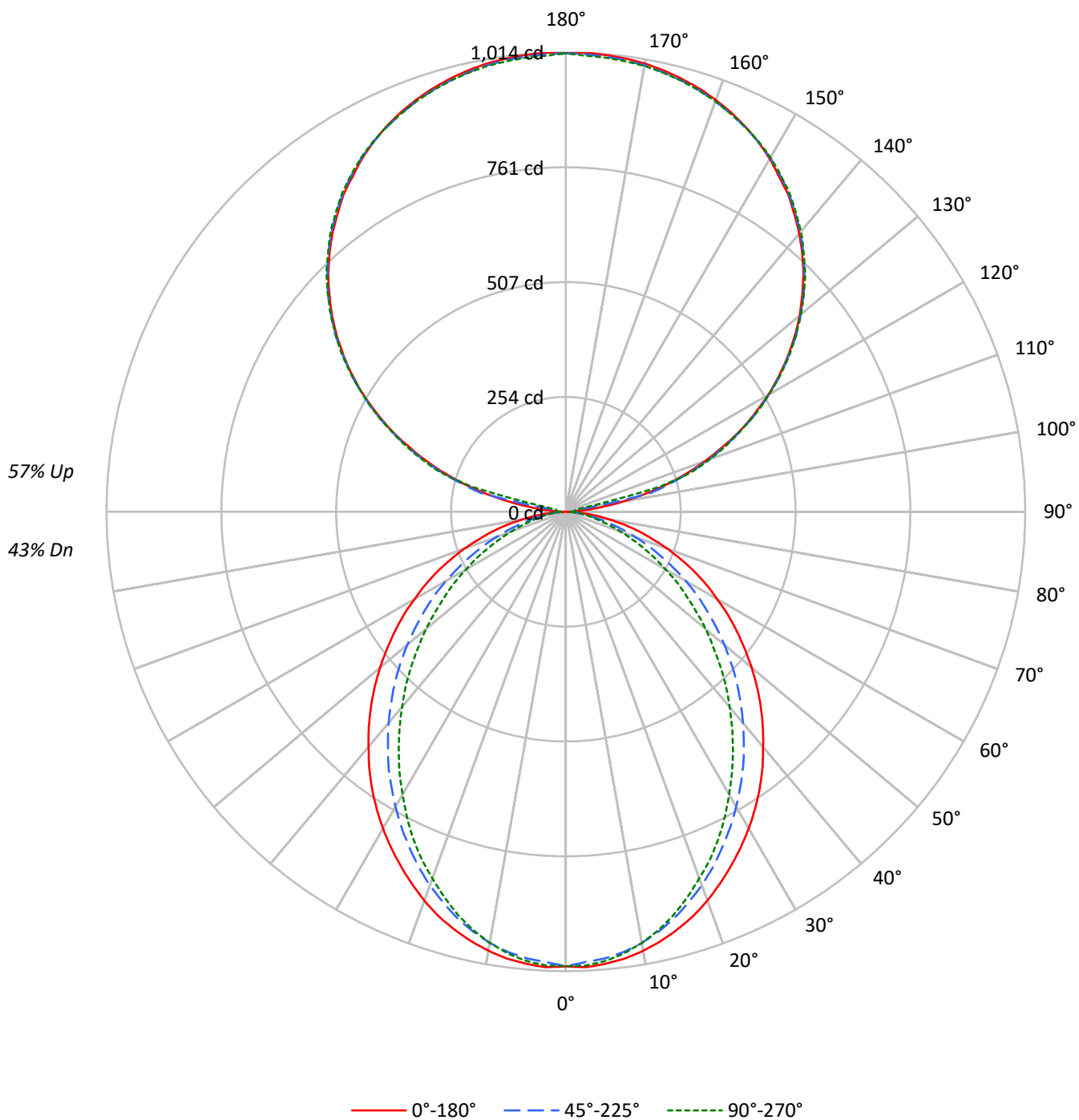
Lumens per Lamp: N/A
Luminaire Lumens: 5452.0 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	67	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°	8181	8181	8181
5°	8182	7938	7938
10°	8112	7687	7595
15°	8000	7375	7191
20°	7854	7020	6730
25°	7672	6636	6280
30°	7493	6245	5774
35°	7298	5848	5280
40°	7064	5421	4772
45°	6845	4998	4269
50°	6596	4535	3759
55°	6327	4060	3232
60°	6028	3557	2711
65°	5739	2979	2210
70°	5330	2371	1689
75°	4804	1726	1181
80°	4014	1059	850
85°	3020	610	467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6845 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.7
10°-20°	263.0	4.8
20°-30°	379.7	7.0
30°-40°	430.4	7.9
40°-50°	415.5	7.6
50°-60°	345.5	6.3
60°-70°	238.4	4.4
70°-80°	120.5	2.2
80°-90°	32.7	0.6
90°-100°	33.6	0.6
100°-110°	221.3	4.1
110°-120°	422.5	7.7
120°-130°	536.4	9.8
130°-140°	573.8	10.5
140°-150°	536.5	9.8
150°-160°	432.7	7.9
160°-170°	279.0	5.1
170°-180°	96.2	1.8
0°-30°	737.1	13.5
0°-40°	1167.5	21.4
0°-60°	1928.5	35.4
0°-90°	2320.1	42.6
90°-120°	677.4	12.4
90°-150°	2324.0	42.6
90°-180°	3132.0	57.4
0°-180°	5452.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1002	999	989	997	996	95
15°	954	947	928	926	921	269
25°	863	849	817	804	797	397
35°	746	721	683	657	643	466
45°	608	580	534	496	482	469
55°	461	430	380	340	326	412
65°	313	280	231	198	189	309
75°	167	138	102	84	80	176
85°	42	26	24	22	22	46
90°	2	11	17	21	23	5
95°	42	16	17	21	22	51
105°	228	232	236	243	216	238
115°	425	428	427	428	428	419
125°	598	601	600	602	603	534
135°	742	741	744	746	747	572
145°	855	858	858	858	860	535
155°	938	939	936	940	937	432
165°	989	986	986	992	985	280
175°	1012	1008	1008	1015	1006	96
180°	1012	1012	1012	1012	1012	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.2	1003.2	1003.2	1003.2	1003.2
2.5°	1006.3	1003.2	994.8	1003.2	1002.4
5°	1001.7	998.6	989.4	997.1	995.5
7.5°	994.8	991.7	980.2	985.5	983.2
10°	984.0	980.2	966.3	969.4	966.3
12.5°	970.2	965.6	948.7	950.2	945.6
15°	954.0	947.1	927.9	926.4	921.0
17.5°	935.6	925.6	903.3	899.5	891.8
20°	913.3	903.3	877.2	871.1	861.1
22.5°	888.7	877.2	848.8	838.8	831.1
25°	862.6	848.8	817.3	804.2	796.6
27.5°	835.7	818.8	785.8	770.5	759.7
30°	807.3	788.1	752.0	732.8	720.5
32.5°	777.4	755.1	717.4	694.4	682.9
35°	745.9	721.3	682.9	656.8	642.9
37.5°	712.8	687.5	645.2	616.8	603.0
40°	677.5	652.2	608.4	576.1	562.3
42.5°	643.7	616.8	570.7	537.7	523.1
45°	608.4	580.0	533.9	496.2	482.4
47.5°	572.3	543.1	495.5	456.3	440.9
50°	535.4	505.4	456.3	417.9	403.3
52.5°	497.8	468.6	417.9	378.7	363.3
55°	460.9	430.2	380.2	340.3	325.7
57.5°	424.8	392.5	343.4	302.6	291.9
60°	385.6	354.9	305.7	265.8	253.5
62.5°	350.3	318.0	267.3	231.2	222.0
65°	313.4	280.4	231.2	198.2	189.0
67.5°	275.0	243.5	197.4	168.2	157.5
70°	238.9	206.6	162.8	137.5	129.8
72.5°	200.5	172.1	131.4	110.6	103.7
75°	166.7	138.3	102.2	84.5	79.9
77.5°	131.4	106.8	76.0	63.8	62.2
80°	97.6	75.3	52.2	49.9	49.2
82.5°	68.4	48.4	37.6	36.1	35.3
85°	41.5	26.1	23.8	22.3	22.3
87.5°	17.7	11.5	10.8	10.0	10.8
90°	2.3	10.6	16.7	21.2	22.7
92.5°	11.4	9.8	15.9	20.4	20.4
95°	41.6	15.9	16.7	21.2	22.0
97.5°	79.5	96.1	16.7	20.4	21.2
100°	124.2	137.8	33.3	20.4	21.2
102.5°	174.1	183.2	192.3	22.0	22.0
105°	227.9	232.4	236.2	243.0	215.8
107.5°	277.1	279.3	284.6	288.4	291.5
110°	327.0	329.3	333.8	335.4	337.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.5	380.0	381.5	380.8	383.8
115°	425.4	427.7	427.0	428.5	428.5
117.5°	470.1	473.1	475.4	474.7	474.7
120°	515.5	518.6	517.8	519.3	517.8
122.5°	557.9	559.4	561.0	561.7	560.2
125°	598.0	601.1	599.6	601.8	602.6
127.5°	636.7	637.4	641.2	640.4	639.7
130°	673.7	674.5	676.8	677.5	677.5
132.5°	707.8	709.3	712.4	713.1	712.4
135°	741.9	741.1	744.2	745.7	747.2
137.5°	772.2	772.2	775.9	777.5	776.7
140°	801.7	803.2	804.7	807.0	807.7
142.5°	828.2	831.2	832.0	833.5	833.5
145°	855.4	857.7	857.7	858.5	860.0
147.5°	876.6	881.2	880.4	881.2	881.9
150°	900.1	903.1	902.4	902.4	903.1
152.5°	919.8	922.1	920.5	922.1	921.3
155°	937.9	938.7	936.4	939.5	937.2
157.5°	953.8	953.8	950.8	954.6	950.8
160°	967.5	965.2	964.4	969.0	964.4
162.5°	979.6	976.6	975.8	980.3	975.0
165°	989.4	985.6	985.6	991.7	984.9
167.5°	997.8	994.0	993.2	1000.0	992.5
170°	1004.6	1000.0	1000.8	1006.8	999.3
172.5°	1009.1	1004.6	1005.3	1011.4	1003.1
175°	1012.1	1007.6	1008.4	1015.2	1006.1
177.5°	1014.4	1009.1	1010.6	1016.7	1007.6
180°	1012.1	1012.1	1012.1	1012.1	1012.1

(END OF REPORT)