

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: P1026384

Luminaire Tested: S124RDIP-B575D1035UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026384
REPORT IS A COMBINATION OF REPORTS P999424 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D1035UB27-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

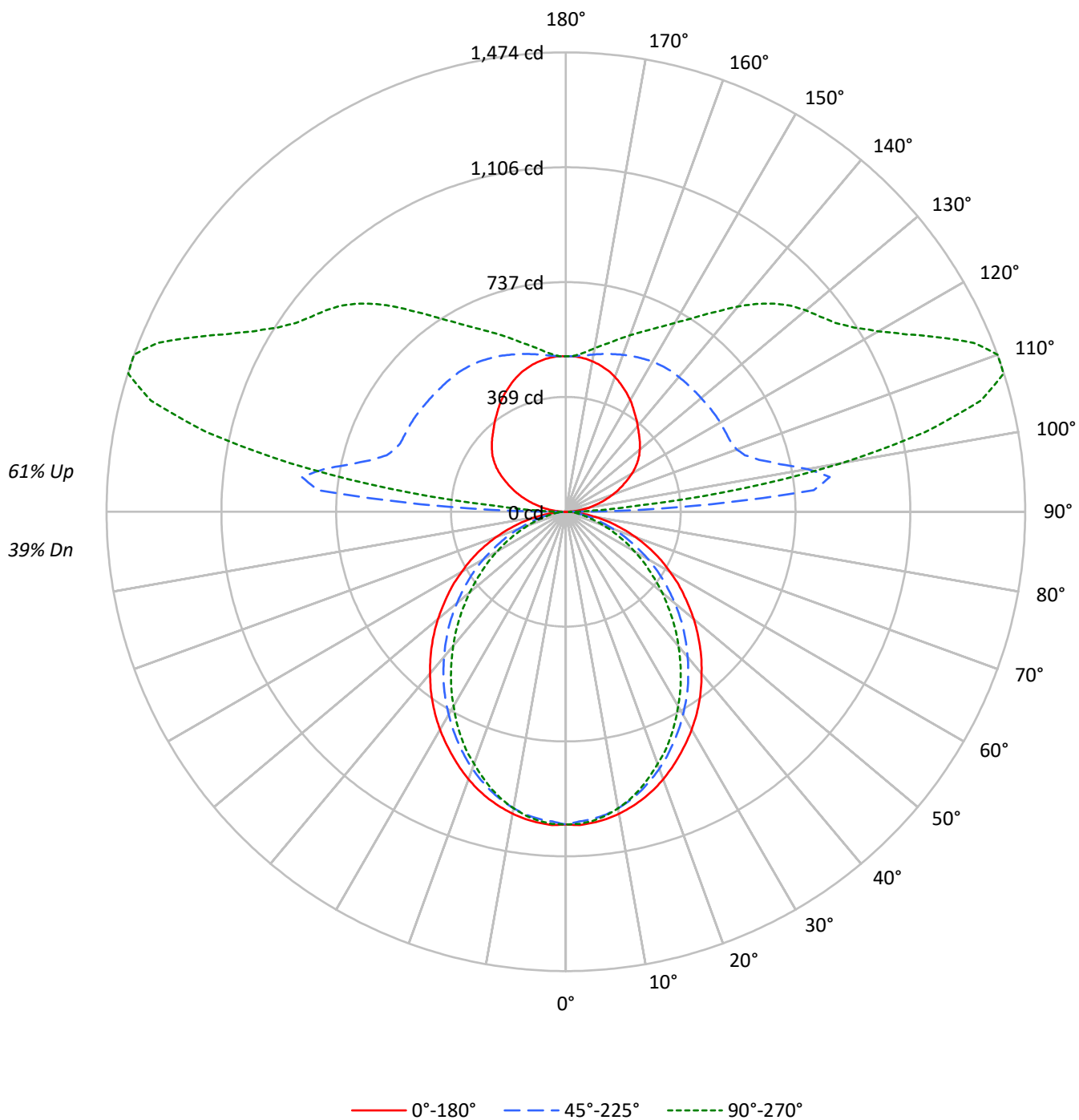
Lumens per Lamp: N/A
Luminaire Lumens: 5959.3 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	95	95	95	95	77	77	77	61	61	61	46	46	46
1	96	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17
8	53	41	33	28	48	38	31	26	31	26	23	25	22	19	20	17	15
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13

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	1.6
10°-20°	263.0	4.4
20°-30°	379.7	6.4
30°-40°	430.4	7.2
40°-50°	415.5	7.0
50°-60°	345.5	5.8
60°-70°	238.4	4.0
70°-80°	120.5	2.0
80°-90°	32.5	0.5
90°-100°	370.4	6.2
100°-110°	753.4	12.6
110°-120°	671.5	11.3
120°-130°	564.1	9.5
130°-140°	470.7	7.9
140°-150°	359.5	6.0
150°-160°	252.7	4.2
160°-170°	148.6	2.5
170°-180°	48.3	0.8
0°-30°	737.1	12.4
0°-40°	1167.5	19.6
0°-60°	1928.5	32.4
0°-90°	2319.9	38.9
90°-120°	1795.4	30.1
90°-150°	3189.7	53.5
90°-180°	3639.0	61.1
0°-180°	5959.3	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°	1	8	18	20	21	5
95°	32	102	798	395	239	35
105°	115	166	643	1384	1378	122
115°	202	253	573	1101	1324	200
125°	281	334	570	937	1056	251
135°	334	398	565	832	944	258
145°	385	441	562	702	771	242
155°	438	473	547	619	646	202
165°	477	492	524	555	563	135
175°	498	499	503	510	508	47
180°	499	499	499	499	499	

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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°	1.0	7.8	17.6	19.6	20.6
92.5°	13.7	75.4	384.1	126.8	89.2
95°	32.3	101.9	798.5	395.3	239.1
97.5°	53.9	112.6	854.3	807.3	574.1
100°	74.5	127.4	787.7	1116.8	898.4
102.5°	94.1	145.0	704.4	1310.9	1180.6
105°	114.6	166.1	642.7	1383.9	1378.5
107.5°	137.2	187.6	602.5	1361.8	1472.5
110°	159.7	209.2	583.9	1283.4	1474.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.3	230.8	575.1	1187.4	1416.7
115°	201.8	253.2	573.1	1101.2	1323.6
117.5°	223.4	274.3	572.2	1033.6	1232.5
120°	244.9	294.9	572.2	988.0	1158.0
122.5°	264.5	315.0	571.2	958.2	1099.3
125°	281.2	334.1	570.2	937.2	1056.2
127.5°	296.9	351.7	568.2	917.0	1028.7
130°	309.6	368.9	567.3	893.0	1005.2
132.5°	322.3	383.6	566.3	864.6	978.8
135°	334.1	397.8	565.3	831.8	944.5
137.5°	345.8	410.0	565.3	796.6	904.3
140°	358.6	421.2	564.3	762.2	860.2
142.5°	372.3	431.6	564.3	730.4	813.2
145°	385.0	440.9	562.4	701.5	771.0
147.5°	399.7	449.7	559.4	677.5	731.9
150°	413.4	458.0	556.5	655.4	699.5
152.5°	426.2	465.8	551.6	636.8	670.1
155°	437.9	472.8	546.7	619.2	645.6
157.5°	449.7	479.1	541.8	602.5	623.1
160°	460.5	484.5	535.9	585.9	602.5
162.5°	470.3	488.9	530.0	569.7	582.9
165°	477.1	491.8	524.2	555.0	563.3
167.5°	485.0	494.2	518.3	542.3	547.7
170°	489.9	496.2	512.4	529.6	533.0
172.5°	494.8	497.7	506.5	518.3	518.3
175°	497.7	498.7	502.6	509.5	507.5
177.5°	499.7	498.7	499.7	503.1	499.7
180°	498.7	498.7	498.7	498.7	498.7

(END OF REPORT)