

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: P1034179

Luminaire Tested: S124RDIW-B575D470UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034179
REPORT IS A COMBINATION OF REPORTS P1000615 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B575D470UB27-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

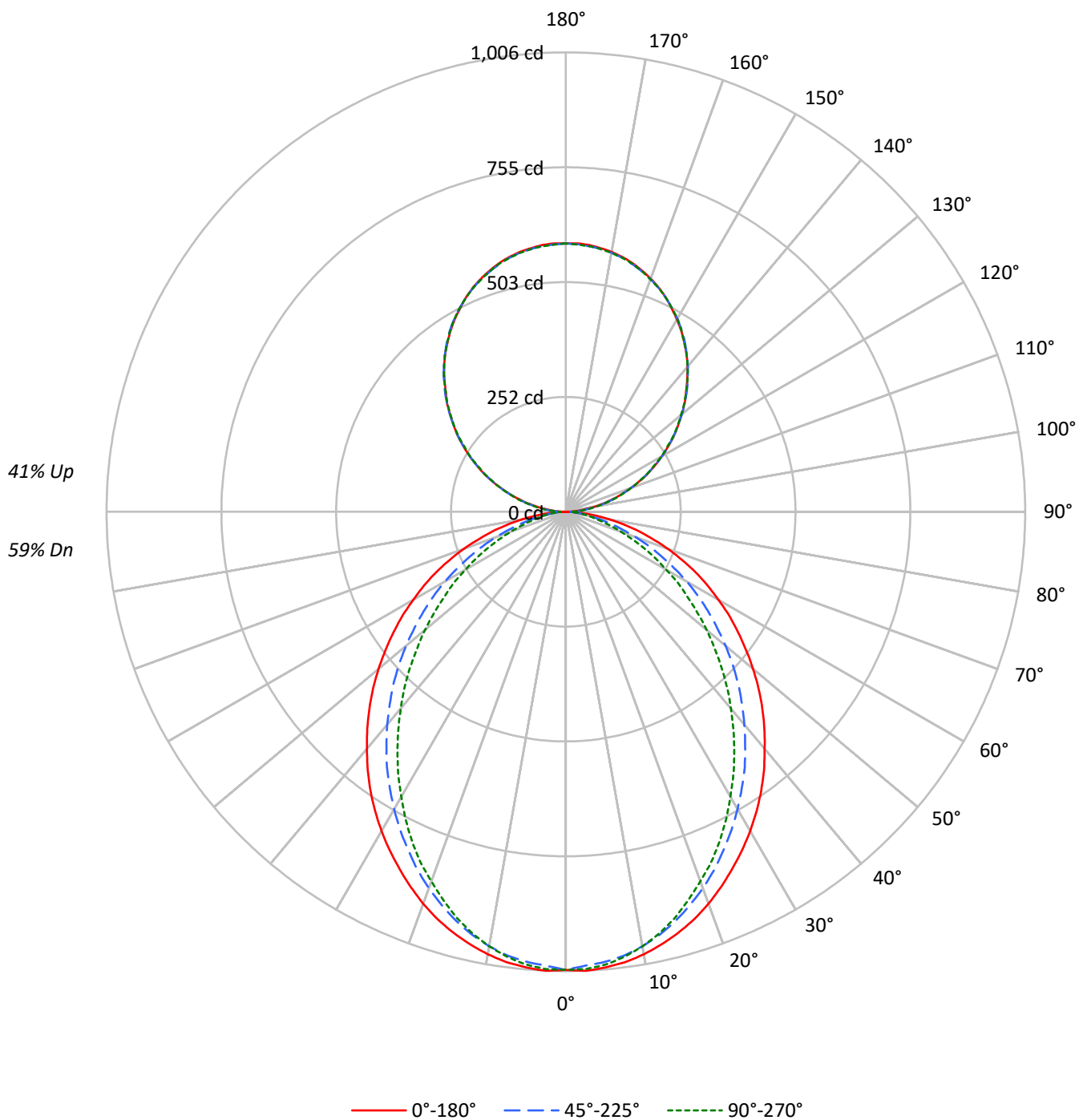
Lumens per Lamp: N/A
Luminaire Lumens: 3949.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
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: P1034179

CATALOG NUMBER: S124RDIW-B575D470UB27-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1034179

CATALOG NUMBER: S124RDIW-B575D470UB27-4F0-XX-W2A-F1

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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64
1	100	96	92	89	93	90	86	83	78	75	73	67	65	64	57	56	55
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	42	40
4	77	66	58	52	71	62	55	49	54	49	44	47	43	39	41	37	35
5	70	59	51	45	66	55	48	43	49	43	38	42	38	34	37	33	30
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	33	30	27
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24
8	56	44	36	31	52	41	34	29	37	31	27	32	28	24	28	24	22
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	24	21	18

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

TEST NUMBER: P1034179

CATALOG NUMBER: S124RDIW-B575D470UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	2.4
10°-20°	263.0	6.7
20°-30°	379.7	9.6
30°-40°	430.4	10.9
40°-50°	415.5	10.5
50°-60°	345.5	8.7
60°-70°	238.4	6.0
70°-80°	120.5	3.1
80°-90°	31.9	0.8
90°-100°	38.3	1.0
100°-110°	114.7	2.9
110°-120°	194.8	4.9
120°-130°	256.9	6.5
130°-140°	288.6	7.3
140°-150°	283.6	7.2
150°-160°	238.5	6.0
160°-170°	158.7	4.0
170°-180°	55.6	1.4
0°-30°	737.1	18.7
0°-40°	1167.5	29.6
0°-60°	1928.5	48.8
0°-90°	2319.3	58.7
90°-120°	347.8	8.8
90°-150°	1176.9	29.8
90°-180°	1630.0	41.3
0°-180°	3949.0	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°	1	6	10	13	14	4
95°	27	31	34	36	36	30
105°	106	106	108	110	111	112
115°	198	198	197	197	196	195
125°	288	288	288	287	286	257
135°	372	375	375	374	372	288
145°	452	454	454	454	452	283
155°	518	518	517	519	517	238
165°	564	562	562	564	562	159
175°	586	584	584	587	584	56
180°	587	587	587	587	587	

TEST NUMBER: P1034179

CATALOG NUMBER: S124RDIW-B575D470UB27-4F0-XX-W2A-F1

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°	1.4	6.4	10.0	12.7	13.6
92.5°	11.8	17.7	20.0	21.4	21.8
95°	27.3	31.3	34.5	35.9	35.9
97.5°	43.6	47.2	50.9	52.7	52.7
100°	63.6	65.4	69.5	70.4	70.4
102.5°	84.5	84.9	88.6	89.9	90.4
105°	105.8	106.3	108.1	109.5	110.8
107.5°	128.1	128.6	129.0	130.8	130.4
110°	150.8	151.7	151.3	150.4	151.7

TEST NUMBER: P1034179

CATALOG NUMBER: S124RDIW-B575D470UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.4	174.4	173.5	173.5	173.5
115°	198.1	198.1	197.2	196.7	196.2
117.5°	220.3	220.3	219.9	218.5	217.1
120°	242.6	244.4	243.0	240.8	241.7
122.5°	265.7	266.2	265.7	264.4	262.1
125°	288.5	288.5	288.0	287.1	286.2
127.5°	308.9	310.3	309.4	308.5	308.0
130°	330.7	332.1	332.1	331.2	329.3
132.5°	353.0	353.9	353.4	352.5	352.1
135°	372.0	374.8	374.8	373.9	372.5
137.5°	393.4	394.8	395.7	394.3	394.8
140°	414.7	415.7	415.7	415.2	414.7
142.5°	434.3	435.2	434.7	434.7	434.7
145°	452.0	453.8	454.3	453.8	452.5
147.5°	470.2	472.4	472.0	471.5	471.1
150°	486.5	488.3	488.3	488.3	487.9
152.5°	502.0	502.9	503.3	504.7	503.3
155°	517.9	517.9	517.4	519.2	517.4
157.5°	531.5	530.6	530.6	532.0	530.6
160°	543.3	542.9	542.4	543.8	541.5
162.5°	554.2	552.8	552.4	555.1	552.8
165°	563.8	562.4	561.5	564.2	562.4
167.5°	571.5	569.7	569.7	572.4	569.7
170°	577.8	575.6	576.0	578.7	575.6
172.5°	582.4	580.6	580.6	583.7	580.6
175°	586.5	584.2	583.7	586.9	583.7
177.5°	588.3	586.0	586.0	589.2	585.6
180°	587.4	587.4	587.4	587.4	587.4

(END OF REPORT)