

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P1061970

Luminaire Tested: S125RDR-H1270D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

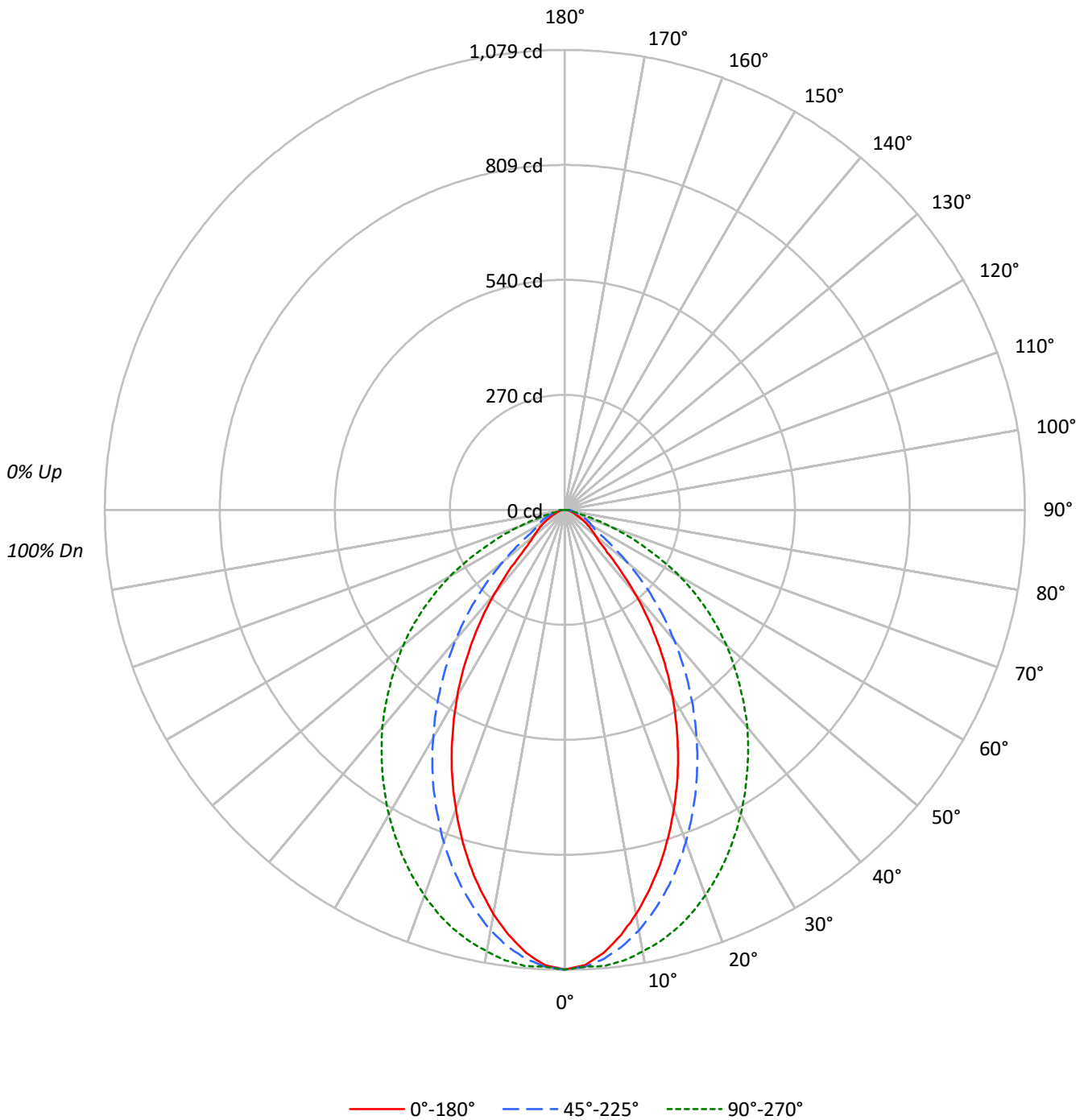
Test Method: LM-79-2019  
Report Number: P1061970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-H1270D930-X4F0-XX-UDD-SVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1562.4 lumens  
Efficiency: N/A  
Efficacy: 42.8 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 36.5  
Input Voltage (V): 120  
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: P1061970  
CATALOG NUMBER: S125RDR-H1270D930-X4F0-XX-UDD-SVL-W

### Luminous Intensity Polar Plot





TEST NUMBER: P1061970

CATALOG NUMBER: S125RDR-H1270D930-X4F0-XX-UDD-SVL-W

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									20									20
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100													100															
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89													89															
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79													79															
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70													70															
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62													62															
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56													56															
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51													51															
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46													46															
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42													42															
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39													39															
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36													36															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7426	7426	7426
5°	7209	7305	7424
10°	6732	7004	7357
15°	6144	6578	7247
20°	5476	6081	7055
25°	4772	5521	6827
30°	4010	4912	6561
35°	3189	4268	6272
40°	2297	3585	5986
45°	1361	2846	5637
50°	1007	2026	5304
55°	853	1252	4857
60°	694	1011	4277
65°	541	934	3381
70°	461	807	2261
75°	426	702	915
80°	456	726	634
85°	545	1090	727

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5637 cd/sqm



TEST NUMBER: P1061970

CATALOG NUMBER: S125RDR-H1270D930-X4F0-XX-UDD-SVL-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.4	6.4
10°-20°	261.1	16.7
20°-30°	341.3	21.8
30°-40°	332.4	21.3
40°-50°	249.3	16.0
50°-60°	156.3	10.0
60°-70°	81.4	5.2
70°-80°	29.4	1.9
80°-90°	11.7	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	701.8	44.9
0°-40°	1034.2	66.2
0°-60°	1439.9	92.2
0°-90°	1562.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1562.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1079	1079	1079	1079	1079	
5°	1043	1057	1057	1065	1074	97
15°	862	887	923	980	1017	240
25°	628	662	727	825	899	287
35°	379	420	508	643	746	236
45°	140	181	292	452	579	118
55°	71	74	104	273	405	63
65°	33	36	57	110	208	34
75°	16	22	26	28	34	18
85°	7	12	14	13	9	7
90°	0	0	0	0	0	



TEST NUMBER: P1061970

CATALOG NUMBER: S125RDR-H1270D930-X4F0-XX-UDD-SVL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1078.6	1078.6	1078.6	1078.6	1078.6
2.5°	1069.5	1079.8	1072.9	1072.9	1072.9
5°	1043.1	1056.9	1056.9	1064.9	1074.1
7.5°	1006.4	1022.5	1032.8	1052.3	1066.0
10°	962.9	982.4	1001.8	1033.9	1052.3
12.5°	913.6	936.5	964.0	1008.7	1036.2
15°	862.0	887.2	922.8	980.1	1016.7
17.5°	805.8	835.6	878.0	946.8	991.5
20°	747.4	777.2	829.9	907.8	962.9
22.5°	688.9	721.0	778.3	866.6	931.9
25°	628.2	662.5	726.7	825.3	898.7
27.5°	566.3	601.8	672.9	782.9	862.0
30°	504.4	541.0	617.8	737.1	825.3
32.5°	442.5	481.4	562.8	690.1	786.3
35°	379.4	419.5	507.8	643.1	746.2
37.5°	318.7	358.8	452.8	594.9	706.1
40°	255.6	299.2	398.9	546.8	666.0
42.5°	193.7	238.4	345.0	498.6	622.4
45°	139.8	181.1	292.3	451.6	578.9
47.5°	107.7	130.7	238.4	403.5	536.5
50°	94.0	100.9	189.1	358.8	495.2
52.5°	81.4	86.0	142.1	317.5	450.5
55°	71.1	74.5	104.3	272.8	404.6
57.5°	59.6	64.2	82.5	229.3	357.6
60°	50.4	52.7	73.4	189.1	310.6
62.5°	41.3	43.6	65.3	149.0	257.9
65°	33.2	35.5	57.3	110.0	207.5
67.5°	27.5	28.7	48.1	77.9	159.3
70°	22.9	24.1	40.1	53.9	112.3
72.5°	19.5	22.9	32.1	39.0	71.1
75°	16.0	21.8	26.4	27.5	34.4
77.5°	13.8	20.6	21.8	21.8	19.5
80°	11.5	17.2	18.3	17.2	16.0
82.5°	9.2	13.8	14.9	14.9	12.6
85°	6.9	11.5	13.8	12.6	9.2
87.5°	4.6	10.3	11.5	10.3	6.9
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1061970  
 CATALOG NUMBER: S125RDR-H1270D930-X4F0-XX-UDD-SVL-W

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	6.88	8.24	7.25	8.55	8.86	16.50	17.85	16.86	18.16	18.48
	3H	7.74	8.94	8.12	9.27	9.64	17.34	18.54	17.72	18.87	19.23
	4H	8.17	9.28	8.57	9.64	10.02	17.41	18.53	17.82	18.88	19.27
	6H	8.60	9.62	9.01	9.99	10.39	17.40	18.42	17.81	18.79	19.19
	8H	8.78	9.75	9.21	10.14	10.55	17.38	18.36	17.81	18.75	19.15
	12H	8.94	9.87	9.37	10.25	10.68	17.37	18.30	17.80	18.69	19.12
4H	2H	7.85	8.97	8.25	9.32	9.70	16.36	17.48	16.76	17.83	18.21
	3H	8.90	9.82	9.31	10.22	10.62	17.27	18.19	17.68	18.59	18.99
	4H	9.46	10.28	9.90	10.70	11.14	17.37	18.19	17.81	18.61	19.05
	6H	10.06	10.77	10.52	11.22	11.68	17.40	18.11	17.86	18.55	19.02
	8H	10.30	10.96	10.77	11.41	11.88	17.40	18.06	17.87	18.51	18.98
	12H	10.53	11.12	11.02	11.60	12.07	17.41	18.00	17.90	18.48	18.95
8H	4H	9.93	10.59	10.40	11.04	11.51	17.30	17.96	17.77	18.40	18.88
	6H	10.75	11.29	11.25	11.78	12.26	17.35	17.89	17.85	18.39	18.87
	8H	11.13	11.62	11.65	12.13	12.62	17.38	17.87	17.91	18.38	18.88
	12H	11.52	11.95	12.04	12.45	13.02	17.45	17.88	17.96	18.37	18.94
12H	4H	9.99	10.57	10.47	11.05	11.53	17.26	17.85	17.75	18.33	18.81
	6H	10.87	11.36	11.39	11.87	12.36	17.32	17.80	17.84	18.32	18.81
	8H	11.36	11.79	11.88	12.29	12.86	17.39	17.82	17.90	18.31	18.88