

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



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061555

Luminaire Tested: S125RDRP-S1270D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S1270D927-X4F0-XX-UDD-SVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

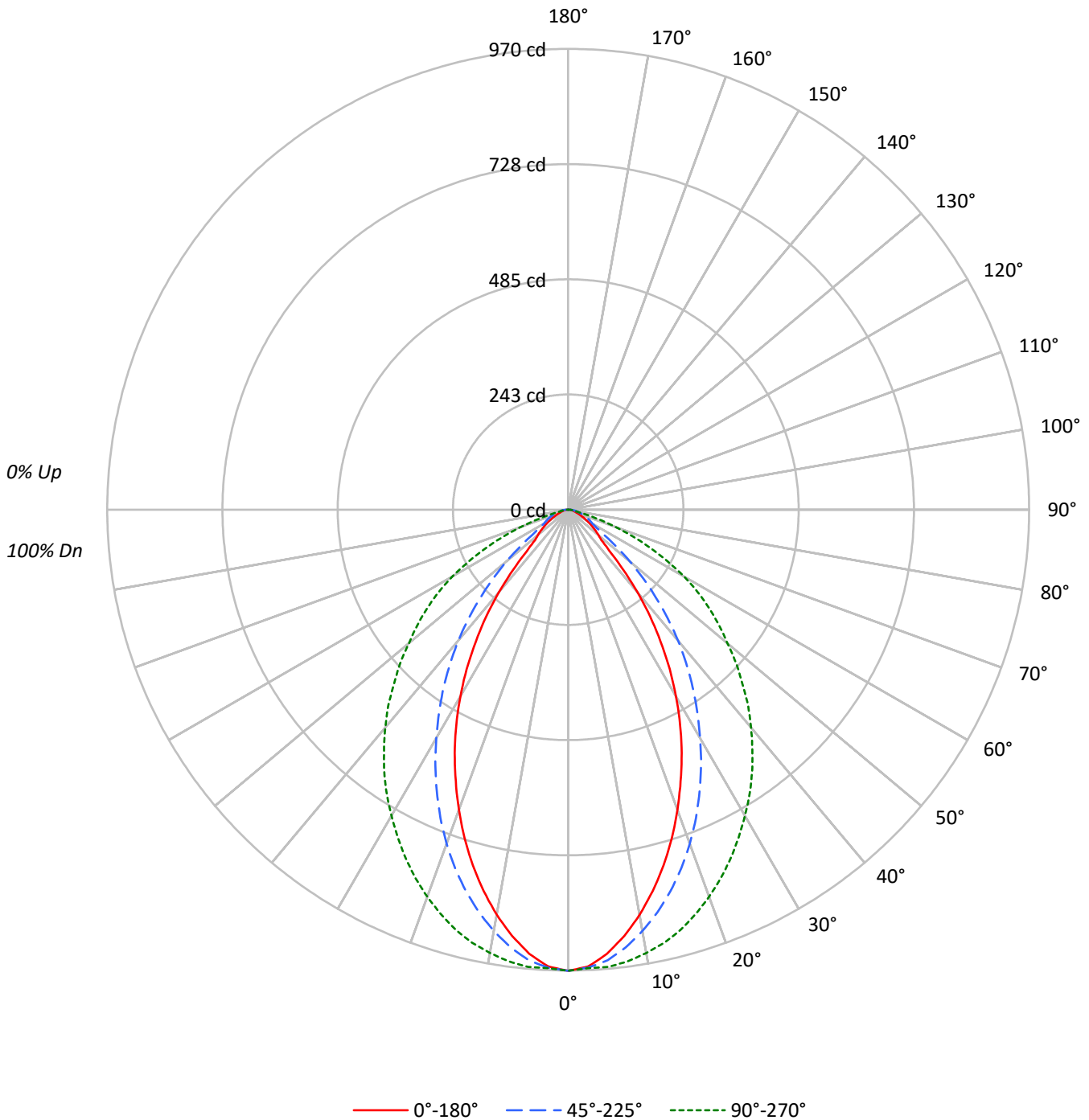
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1401.3 lumens  
Efficiency: N/A  
Efficacy: 33.5 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): 41.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	0
RW	70	50	30	10	70	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
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36

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

	0°	45°	90°
0°	6682	6682	6682
5°	6484	6580	6676
10°	6053	6294	6624
15°	5523	5925	6524
20°	4926	5483	6352
25°	4294	4968	6148
30°	3606	4412	5913
35°	2845	3841	5670
40°	2038	3229	5380
45°	1200	2534	5044
50°	888	1825	4686
55°	747	1106	4353
60°	602	808	3883
65°	469	769	3113
70°	395	719	2110
75°	367	644	918
80°	365	638	595
85°	458	822	640

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5044 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.4	6.4
10°-20°	234.9	16.8
20°-30°	307.0	21.9
30°-40°	298.8	21.3
40°-50°	223.3	15.9
50°-60°	138.5	9.9
60°-70°	72.8	5.2
70°-80°	26.5	1.9
80°-90°	10.0	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°	631.3	45.1
0°-40°	930.2	66.4
0°-60°	1292.0	92.2
0°-90°	1401.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1401.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	938	951	952	958	966	87
15°	775	798	831	882	915	216
25°	565	594	654	742	809	258
35°	338	375	457	579	675	211
45°	123	161	260	406	518	104
55°	62	66	92	239	363	56
65°	29	31	47	101	191	30
75°	14	16	24	26	34	15
85°	6	10	10	10	8	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	970.5	970.5	970.5	970.5	970.5
2.5°	962.4	970.5	964.7	964.7	965.9
5°	938.2	950.9	952.0	957.8	965.9
7.5°	904.8	919.8	929.0	946.3	958.9
10°	865.7	883.0	900.2	929.0	947.4
12.5°	822.0	842.7	868.0	907.1	933.6
15°	774.8	797.8	831.2	881.8	915.2
17.5°	725.3	749.4	790.9	851.9	892.2
20°	672.3	698.8	748.3	817.4	866.9
22.5°	618.2	648.1	702.2	780.5	839.2
25°	565.2	594.0	653.9	742.5	809.3
27.5°	510.0	539.9	605.5	703.4	777.1
30°	453.6	485.8	554.9	663.1	743.7
32.5°	397.2	430.5	505.4	621.6	710.3
35°	338.5	375.3	457.0	579.1	674.6
37.5°	283.2	322.3	407.5	535.3	636.6
40°	226.8	267.1	359.2	492.7	598.6
42.5°	171.5	213.0	309.7	449.0	560.6
45°	123.2	161.2	260.2	406.4	518.0
47.5°	94.4	116.3	214.1	362.6	480.0
50°	82.9	89.8	170.4	320.0	437.5
52.5°	72.5	77.1	126.6	278.6	400.6
55°	62.2	65.6	92.1	239.4	362.6
57.5°	53.0	56.4	70.2	203.8	323.5
60°	43.7	47.2	58.7	168.1	282.0
62.5°	36.8	38.0	53.0	134.7	236.0
65°	28.8	31.1	47.2	101.3	191.1
67.5°	24.2	25.3	41.4	72.5	147.4
70°	19.6	20.7	35.7	50.7	104.8
72.5°	17.3	17.3	29.9	36.8	66.8
75°	13.8	16.1	24.2	26.5	34.5
77.5°	11.5	16.1	20.7	19.6	18.4
80°	9.2	15.0	16.1	16.1	15.0
82.5°	8.1	12.7	13.8	12.7	11.5
85°	5.8	10.4	10.4	10.4	8.1
87.5°	4.6	9.2	8.1	8.1	5.8
90°	0.0	0.0	0.0	0.0	0.0

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**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	6.39	7.74	6.75	8.05	8.36	16.09	17.44	16.46	17.75	18.07
	3H	7.23	8.42	7.60	8.75	9.12	17.00	18.20	17.38	18.53	18.90
	4H	7.58	8.70	7.99	9.05	9.43	17.10	18.22	17.50	18.57	18.95
	6H	7.96	8.98	8.37	9.35	9.75	17.09	18.11	17.50	18.48	18.88
	8H	8.14	9.11	8.57	9.50	9.91	17.07	18.05	17.50	18.44	18.84
	12H	8.30	9.23	8.74	9.62	10.05	17.06	17.99	17.49	18.37	18.80
4H	2H	7.22	8.33	7.62	8.68	9.07	15.94	17.06	16.34	17.41	17.79
	3H	8.27	9.19	8.69	9.59	9.99	16.93	17.85	17.34	18.25	18.65
	4H	8.73	9.55	9.16	9.96	10.41	17.06	17.88	17.49	18.30	18.74
	6H	9.29	9.99	9.75	10.44	10.90	17.09	17.80	17.55	18.24	18.71
	8H	9.55	10.21	10.02	10.65	11.12	17.09	17.75	17.56	18.20	18.67
	12H	9.79	10.38	10.28	10.86	11.33	17.10	17.69	17.59	18.17	18.64
8H	4H	9.28	9.94	9.75	10.39	10.86	16.98	17.64	17.45	18.09	18.56
	6H	10.06	10.60	10.56	11.10	11.58	17.04	17.58	17.55	18.08	18.56
	8H	10.48	10.96	11.00	11.48	11.97	17.07	17.56	17.59	18.07	18.56
	12H	10.90	11.33	11.41	11.82	12.39	17.13	17.56	17.64	18.05	18.62
12H	4H	9.34	9.93	9.83	10.41	10.88	16.95	17.53	17.44	18.02	18.49
	6H	10.20	10.69	10.73	11.20	11.70	17.01	17.50	17.53	18.01	18.50
	8H	10.74	11.16	11.25	11.66	12.23	17.08	17.50	17.59	18.00	18.57