

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: P1061565

Luminaire Tested: S125RDR-S1270D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061565  
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-S1270D930-X4F0-XX-UDD-SVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

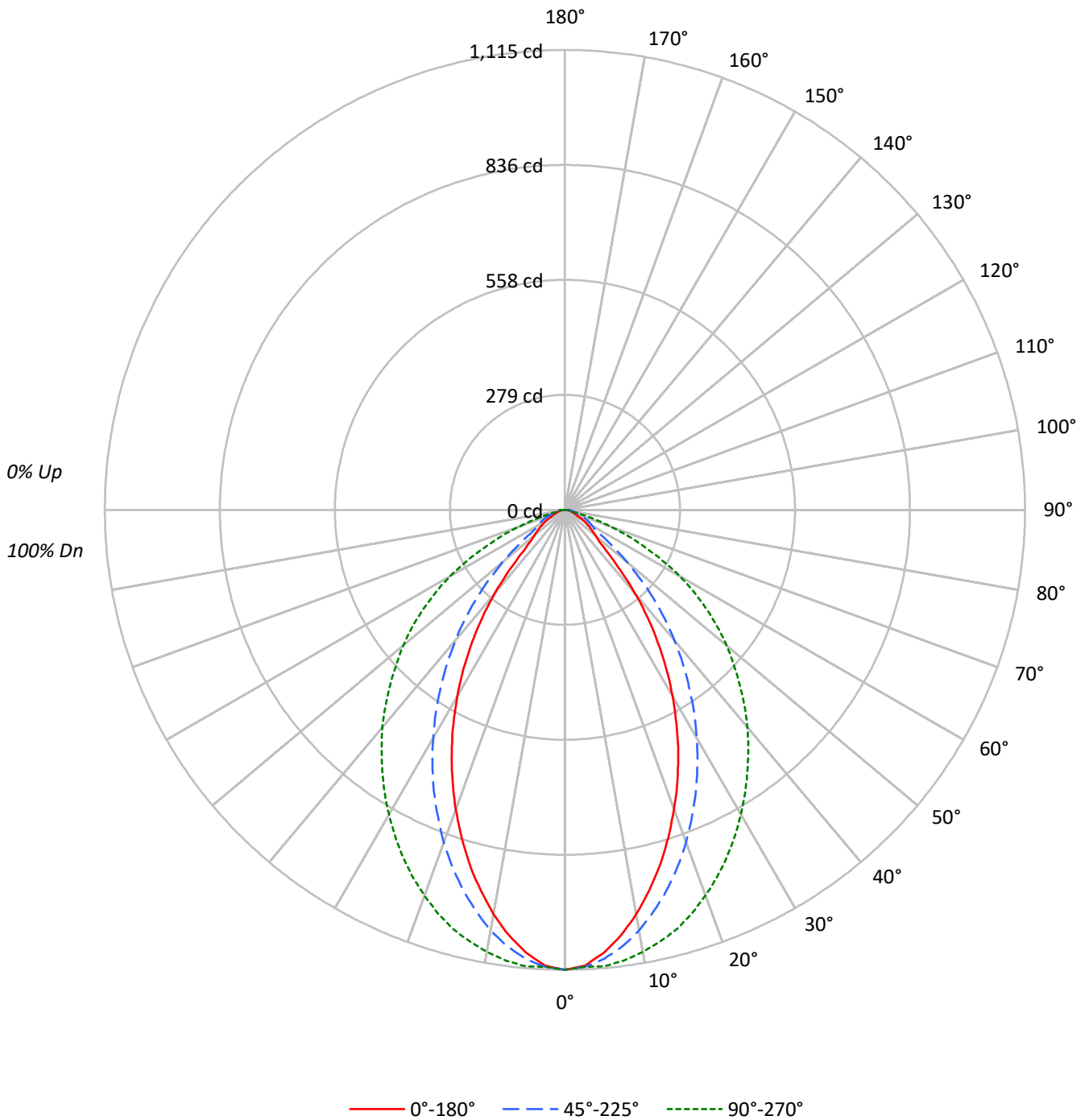
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1615.1 lumens  
Efficiency: N/A  
Efficacy: 38.6 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 (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	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	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	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	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

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

	0°	45°	90°
0°	7678	7678	7678
5°	7453	7552	7674
10°	6959	7241	7605
15°	6352	6800	7492
20°	5661	6286	7293
25°	4934	5708	7058
30°	4145	5078	6783
35°	3297	4412	6484
40°	2376	3707	6188
45°	1408	2943	5827
50°	1041	2094	5483
55°	882	1294	5021
60°	717	1044	4422
65°	560	964	3495
70°	477	835	2337
75°	442	726	944
80°	468	753	658
85°	561	1122	750

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5827 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.8	6.4
10°-20°	269.9	16.7
20°-30°	352.8	21.8
30°-40°	343.7	21.3
40°-50°	257.8	16.0
50°-60°	161.6	10.0
60°-70°	84.1	5.2
70°-80°	30.4	1.9
80°-90°	12.1	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°	725.5	44.9
0°-40°	1069.2	66.2
0°-60°	1488.5	92.2
0°-90°	1615.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1615.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1078	1093	1093	1101	1110	100
15°	891	917	954	1013	1051	249
25°	649	685	751	853	929	297
35°	392	434	525	665	771	244
45°	145	187	302	467	598	122
55°	74	77	108	282	418	66
65°	34	37	59	114	214	35
75°	17	22	27	28	36	18
85°	7	12	14	13	10	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1115.1	1115.1	1115.1	1115.1	1115.1
2.5°	1105.6	1116.3	1109.1	1109.1	1109.1
5°	1078.3	1092.6	1092.6	1100.9	1110.3
7.5°	1040.4	1057.0	1067.7	1087.8	1102.0
10°	995.4	1015.5	1035.7	1068.9	1087.8
12.5°	944.4	968.1	996.6	1042.8	1071.2
15°	891.1	917.2	953.9	1013.2	1051.1
17.5°	833.0	863.9	907.7	978.8	1025.0
20°	772.6	803.4	857.9	938.5	995.4
22.5°	712.2	745.4	804.6	895.8	963.4
25°	649.4	684.9	751.3	853.2	929.0
27.5°	585.4	622.1	695.6	809.3	891.1
30°	521.4	559.3	638.7	761.9	853.2
32.5°	457.4	497.7	581.8	713.4	812.9
35°	392.2	433.7	524.9	664.8	771.4
37.5°	329.4	370.9	468.1	615.0	730.0
40°	264.3	309.3	412.4	565.2	688.5
42.5°	200.3	246.5	356.7	515.5	643.4
45°	144.6	187.2	302.2	466.9	598.4
47.5°	111.4	135.1	246.5	417.1	554.6
50°	97.2	104.3	195.5	370.9	511.9
52.5°	84.1	88.9	146.9	328.2	465.7
55°	73.5	77.0	107.8	282.0	418.3
57.5°	61.6	66.4	85.3	237.0	369.7
60°	52.1	54.5	75.8	195.5	321.1
62.5°	42.7	45.0	67.5	154.0	266.6
65°	34.4	36.7	59.2	113.8	214.5
67.5°	28.4	29.6	49.8	80.6	164.7
70°	23.7	24.9	41.5	55.7	116.1
72.5°	20.1	23.7	33.2	40.3	73.5
75°	16.6	22.5	27.3	28.4	35.5
77.5°	14.2	21.3	22.5	22.5	20.1
80°	11.8	17.8	19.0	17.8	16.6
82.5°	9.5	14.2	15.4	15.4	13.0
85°	7.1	11.8	14.2	13.0	9.5
87.5°	4.7	10.7	11.8	10.7	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)