

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: P1061556

Luminaire Tested: S125RDR-S1270D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061556  
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-S1270D927-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

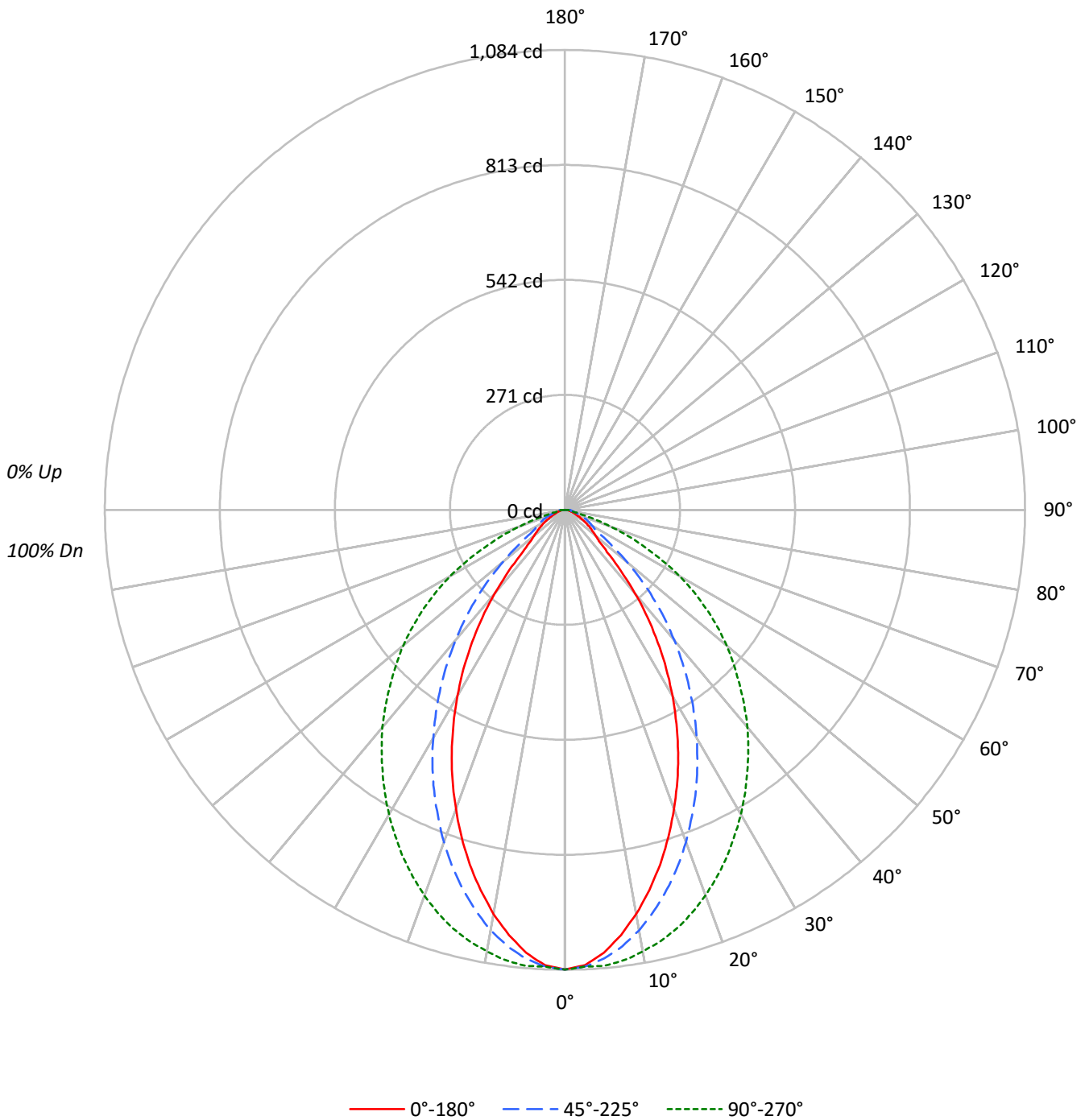
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1569.4 lumens  
Efficiency: N/A  
Efficacy: 37.5 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 (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	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°	7460	7460	7460
5°	7242	7337	7456
10°	6762	7036	7390
15°	6172	6607	7280
20°	5500	6108	7087
25°	4794	5546	6858
30°	4028	4934	6591
35°	3203	4288	6301
40°	2308	3602	6013
45°	1368	2859	5662
50°	1011	2035	5328
55°	857	1258	4878
60°	698	1015	4296
65°	544	938	3395
70°	463	811	2271
75°	428	705	918
80°	456	730	638
85°	545	1090	727

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5662 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.9	6.4
10°-20°	262.3	16.7
20°-30°	342.8	21.8
30°-40°	333.9	21.3
40°-50°	250.5	16.0
50°-60°	157.0	10.0
60°-70°	81.7	5.2
70°-80°	29.6	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°	704.9	44.9
0°-40°	1038.8	66.2
0°-60°	1446.3	92.2
0°-90°	1569.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1569.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1084	1084	1084	1084	1084	
5°	1048	1062	1062	1070	1079	97
15°	866	891	927	984	1021	241
25°	631	666	730	829	903	288
35°	381	421	510	646	750	237
45°	140	182	294	454	582	118
55°	71	75	105	274	406	64
65°	33	36	58	110	208	34
75°	16	22	26	28	34	18
85°	7	12	14	13	9	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1083.5	1083.5	1083.5	1083.5	1083.5
2.5°	1074.2	1084.6	1077.7	1077.7	1077.7
5°	1047.8	1061.6	1061.6	1069.6	1078.8
7.5°	1010.9	1027.0	1037.4	1057.0	1070.8
10°	967.2	986.7	1006.3	1038.6	1057.0
12.5°	917.7	940.7	968.3	1013.2	1040.9
15°	865.8	891.2	926.9	984.4	1021.3
17.5°	809.4	839.4	882.0	951.0	996.0
20°	750.7	780.6	833.6	911.9	967.2
22.5°	692.0	724.2	781.8	870.4	936.1
25°	631.0	665.5	730.0	829.0	902.7
27.5°	568.8	604.5	675.9	786.4	865.8
30°	506.6	543.5	620.6	740.3	829.0
32.5°	444.4	483.6	565.3	693.1	789.9
35°	381.1	421.4	510.1	645.9	749.6
37.5°	320.1	360.4	454.8	597.6	709.3
40°	256.8	300.5	400.7	549.2	669.0
42.5°	194.6	239.5	346.6	500.9	625.2
45°	140.5	181.9	293.6	453.6	581.5
47.5°	108.2	131.3	239.5	405.3	538.8
50°	94.4	101.3	190.0	360.4	497.4
52.5°	81.7	86.4	142.8	318.9	452.5
55°	71.4	74.8	104.8	274.0	406.4
57.5°	59.9	64.5	82.9	230.3	359.2
60°	50.7	53.0	73.7	190.0	312.0
62.5°	41.4	43.8	65.6	149.7	259.1
65°	33.4	35.7	57.6	110.5	208.4
67.5°	27.6	28.8	48.4	78.3	160.0
70°	23.0	24.2	40.3	54.1	112.8
72.5°	19.6	23.0	32.2	39.1	71.4
75°	16.1	21.9	26.5	27.6	34.5
77.5°	13.8	20.7	21.9	21.9	19.6
80°	11.5	17.3	18.4	17.3	16.1
82.5°	9.2	13.8	15.0	15.0	12.7
85°	6.9	11.5	13.8	12.7	9.2
87.5°	4.6	10.4	11.5	10.4	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)