

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: P1061700

Luminaire Tested: S125RDR-S610D840-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061700  
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-S610D840-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

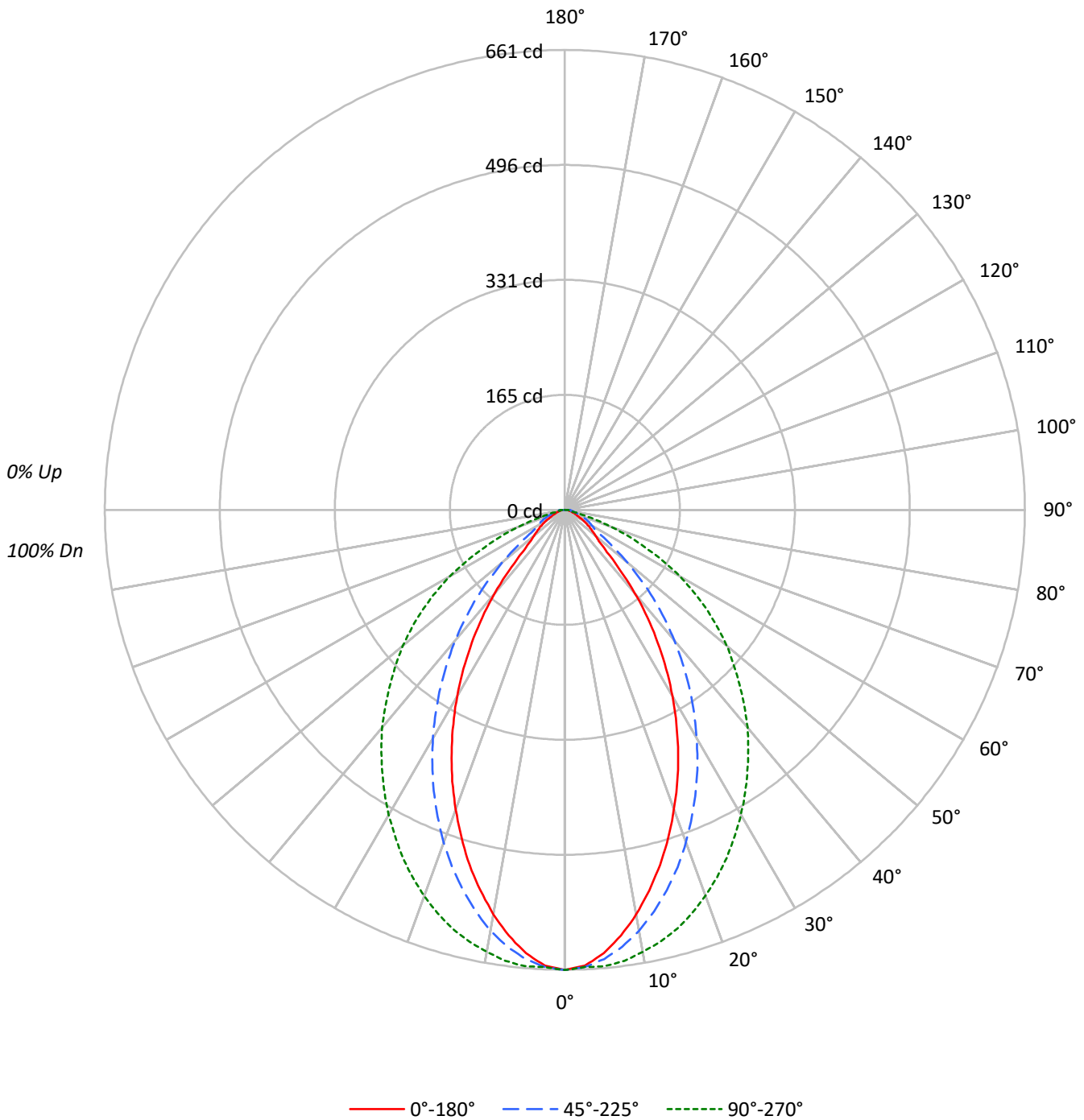
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 957.9 lumens  
Efficiency: N/A  
Efficacy: 48.9 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): 19.6  
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°	4553	4553	4553
5°	4421	4479	4551
10°	4128	4295	4511
15°	3767	4033	4444
20°	3357	3728	4326
25°	2926	3385	4186
30°	2458	3012	4023
35°	1955	2617	3845
40°	1408	2198	3670
45°	834	1745	3456
50°	617	1243	3252
55°	523	768	2978
60°	426	620	2623
65°	332	572	2072
70°	284	495	1387
75°	261	431	561
80°	278	444	389
85°	332	664	442

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3456 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.0	6.4
10°-20°	160.1	16.7
20°-30°	209.2	21.8
30°-40°	203.8	21.3
40°-50°	152.9	16.0
50°-60°	95.9	10.0
60°-70°	49.9	5.2
70°-80°	18.1	1.9
80°-90°	7.1	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°	430.3	44.9
0°-40°	634.1	66.2
0°-60°	882.8	92.2
0°-90°	957.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	957.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	640	648	648	653	658	59
15°	528	544	566	601	623	147
25°	385	406	446	506	551	176
35°	233	257	311	394	458	145
45°	86	111	179	277	355	72
55°	44	46	64	167	248	39
65°	20	22	35	68	127	21
75°	10	13	16	17	21	11
85°	4	7	8	8	6	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	661.3	661.3	661.3	661.3	661.3
2.5°	655.7	662.0	657.8	657.8	657.8
5°	639.6	648.0	648.0	652.9	658.5
7.5°	617.1	626.9	633.2	645.2	653.6
10°	590.4	602.3	614.3	633.9	645.2
12.5°	560.1	574.2	591.1	618.5	635.3
15°	528.5	544.0	565.8	600.9	623.4
17.5°	494.1	512.3	538.4	580.5	607.9
20°	458.2	476.5	508.8	556.6	590.4
22.5°	422.4	442.1	477.2	531.3	571.4
25°	385.1	406.2	445.6	506.0	551.0
27.5°	347.2	369.0	412.5	480.0	528.5
30°	309.2	331.7	378.8	451.9	506.0
32.5°	271.3	295.2	345.1	423.1	482.1
35°	232.6	257.2	311.3	394.3	457.5
37.5°	195.4	220.0	277.6	364.8	432.9
40°	156.7	183.4	244.6	335.2	408.3
42.5°	118.8	146.2	211.5	305.7	381.6
45°	85.7	111.0	179.2	276.9	354.9
47.5°	66.1	80.1	146.2	247.4	328.9
50°	57.6	61.8	116.0	220.0	303.6
52.5°	49.9	52.7	87.1	194.7	276.2
55°	43.6	45.7	64.0	167.3	248.1
57.5°	36.5	39.4	50.6	140.6	219.3
60°	30.9	32.3	45.0	116.0	190.5
62.5°	25.3	26.7	40.1	91.4	158.1
65°	20.4	21.8	35.1	67.5	127.2
67.5°	16.9	17.6	29.5	47.8	97.7
70°	14.1	14.8	24.6	33.0	68.9
72.5°	11.9	14.1	19.7	23.9	43.6
75°	9.8	13.4	16.2	16.9	21.1
77.5°	8.4	12.7	13.4	13.4	11.9
80°	7.0	10.5	11.2	10.5	9.8
82.5°	5.6	8.4	9.1	9.1	7.7
85°	4.2	7.0	8.4	7.7	5.6
87.5°	2.8	6.3	7.0	6.3	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)