

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: P1061736

Luminaire Tested: S125RDR-S610D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061736  
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-S610D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

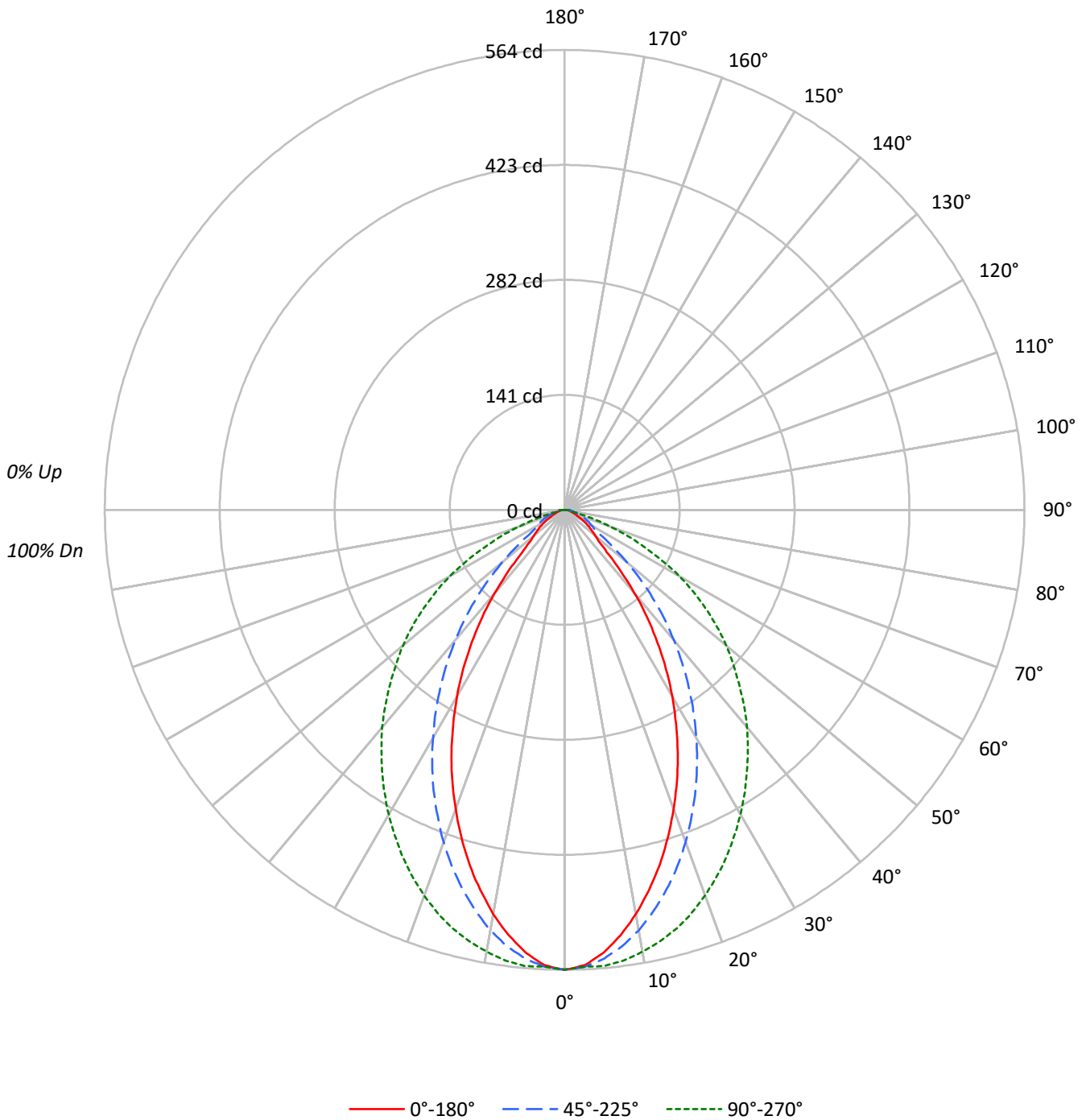
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 816.8 lumens  
Efficiency: N/A  
Efficacy: 41.7 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				
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	78	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°	3883	3883	3883
5°	3769	3819	3881
10°	3519	3661	3846
15°	3212	3439	3789
20°	2863	3179	3688
25°	2495	2886	3569
30°	2097	2568	3430
35°	1667	2231	3279
40°	1201	1874	3129
45°	712	1488	2946
50°	526	1059	2773
55°	447	654	2539
60°	364	527	2236
65°	283	489	1768
70°	242	423	1182
75°	223	367	479
80°	238	381	333
85°	284	569	379

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2946 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.0	6.4
10°-20°	136.5	16.7
20°-30°	178.4	21.8
30°-40°	173.8	21.3
40°-50°	130.3	16.0
50°-60°	81.7	10.0
60°-70°	42.6	5.2
70°-80°	15.4	1.9
80°-90°	6.1	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°	366.9	44.9
0°-40°	540.6	66.2
0°-60°	752.7	92.2
0°-90°	816.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	816.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	545	552	552	557	562	51
15°	451	464	482	512	532	126
25°	328	346	380	431	470	150
35°	198	219	265	336	390	123
45°	73	95	153	236	303	61
55°	37	39	54	143	212	33
65°	17	19	30	58	108	18
75°	8	11	14	14	18	9
85°	4	6	7	7	5	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	563.9	563.9	563.9	563.9	563.9
2.5°	559.1	564.5	560.9	560.9	560.9
5°	545.3	552.5	552.5	556.7	561.5
7.5°	526.1	534.5	539.9	550.1	557.3
10°	503.3	513.5	523.7	540.5	550.1
12.5°	477.6	489.6	503.9	527.3	541.7
15°	450.6	463.8	482.4	512.3	531.5
17.5°	421.2	436.8	459.0	494.9	518.3
20°	390.7	406.3	433.8	474.6	503.3
22.5°	360.1	376.9	406.9	453.0	487.2
25°	328.4	346.3	379.9	431.4	469.8
27.5°	296.0	314.6	351.7	409.3	450.6
30°	263.7	282.8	323.0	385.3	431.4
32.5°	231.3	251.7	294.2	360.7	411.1
35°	198.3	219.3	265.4	336.2	390.1
37.5°	166.6	187.6	236.7	311.0	369.1
40°	133.6	156.4	208.5	285.8	348.1
42.5°	101.3	124.6	180.4	260.7	325.4
45°	73.1	94.7	152.8	236.1	302.6
47.5°	56.3	68.3	124.6	210.9	280.4
50°	49.1	52.7	98.9	187.6	258.9
52.5°	42.5	44.9	74.3	166.0	235.5
55°	37.2	38.9	54.5	142.6	211.5
57.5°	31.2	33.6	43.1	119.8	187.0
60°	26.4	27.6	38.3	98.9	162.4
62.5°	21.6	22.8	34.2	77.9	134.8
65°	17.4	18.6	30.0	57.5	108.5
67.5°	14.4	15.0	25.2	40.7	83.3
70°	12.0	12.6	21.0	28.2	58.7
72.5°	10.2	12.0	16.8	20.4	37.2
75°	8.4	11.4	13.8	14.4	18.0
77.5°	7.2	10.8	11.4	11.4	10.2
80°	6.0	9.0	9.6	9.0	8.4
82.5°	4.8	7.2	7.8	7.8	6.6
85°	3.6	6.0	7.2	6.6	4.8
87.5°	2.4	5.4	6.0	5.4	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)