

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: P1061736

Luminaire Tested: S125RDRP-S610D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
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: S125RDRP-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: -

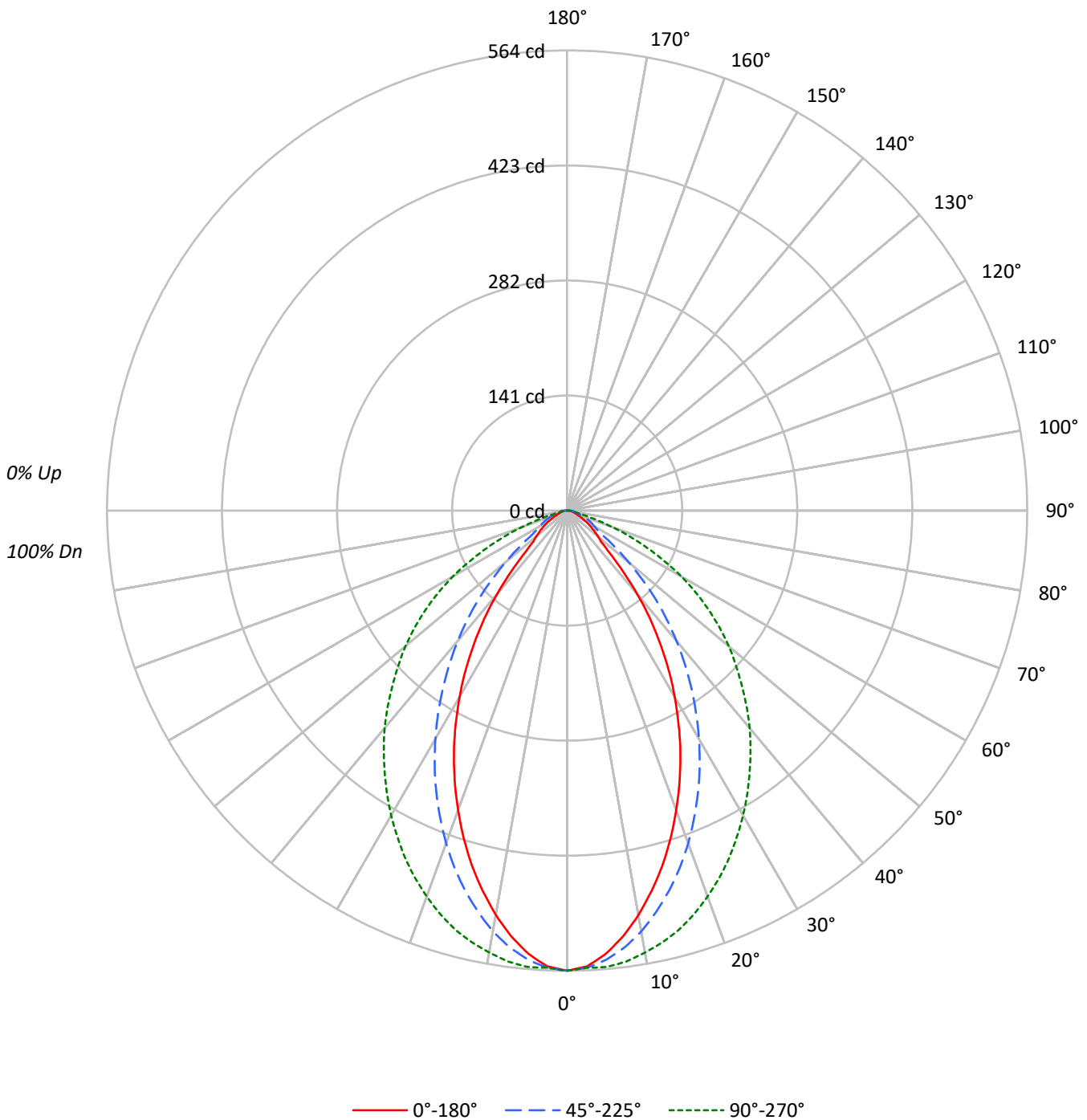
**Summary**

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 (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	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



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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	4.64	5.99	5.00	6.30	6.62	14.24	15.59	14.61	15.91	16.22
	3H	5.50	6.70	5.88	7.03	7.39	15.08	16.28	15.46	16.61	16.98
	4H	5.92	7.04	6.32	7.39	7.77	15.16	16.28	15.56	16.63	17.01
	6H	6.35	7.38	6.76	7.75	8.14	15.14	16.17	15.56	16.54	16.93
	8H	6.53	7.50	6.96	7.89	8.30	15.13	16.10	15.56	16.49	16.90
	12H	6.69	7.62	7.12	8.01	8.44	15.12	16.05	15.55	16.43	16.86
4H	2H	5.60	6.72	6.00	7.07	7.45	14.11	15.22	14.51	15.58	15.96
	3H	6.65	7.57	7.07	7.97	8.38	15.02	15.93	15.43	16.34	16.74
	4H	7.22	8.04	7.65	8.46	8.90	15.12	15.94	15.55	16.36	16.80
	6H	7.82	8.52	8.28	8.97	9.44	15.15	15.85	15.61	16.30	16.77
	8H	8.06	8.72	8.52	9.16	9.63	15.15	15.81	15.62	16.25	16.73
	12H	8.28	8.87	8.77	9.35	9.82	15.16	15.74	15.65	16.23	16.70
8H	4H	7.69	8.35	8.16	8.80	9.27	15.04	15.70	15.51	16.15	16.62
	6H	8.50	9.04	9.00	9.54	10.02	15.10	15.64	15.60	16.13	16.62
	8H	8.88	9.37	9.40	9.88	10.37	15.13	15.62	15.65	16.13	16.62
	12H	9.27	9.70	9.79	10.20	10.77	15.20	15.63	15.71	16.12	16.69
12H	4H	7.74	8.32	8.23	8.81	9.28	15.01	15.60	15.50	16.08	16.55
	6H	8.62	9.11	9.14	9.63	10.12	15.06	15.55	15.59	16.07	16.56
	8H	9.11	9.54	9.63	10.04	10.61	15.14	15.57	15.65	16.06	16.63