

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: P1061729

Luminaire Tested: S125RDRP-S610D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S610D930-X4F0-XX-UDD-WVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

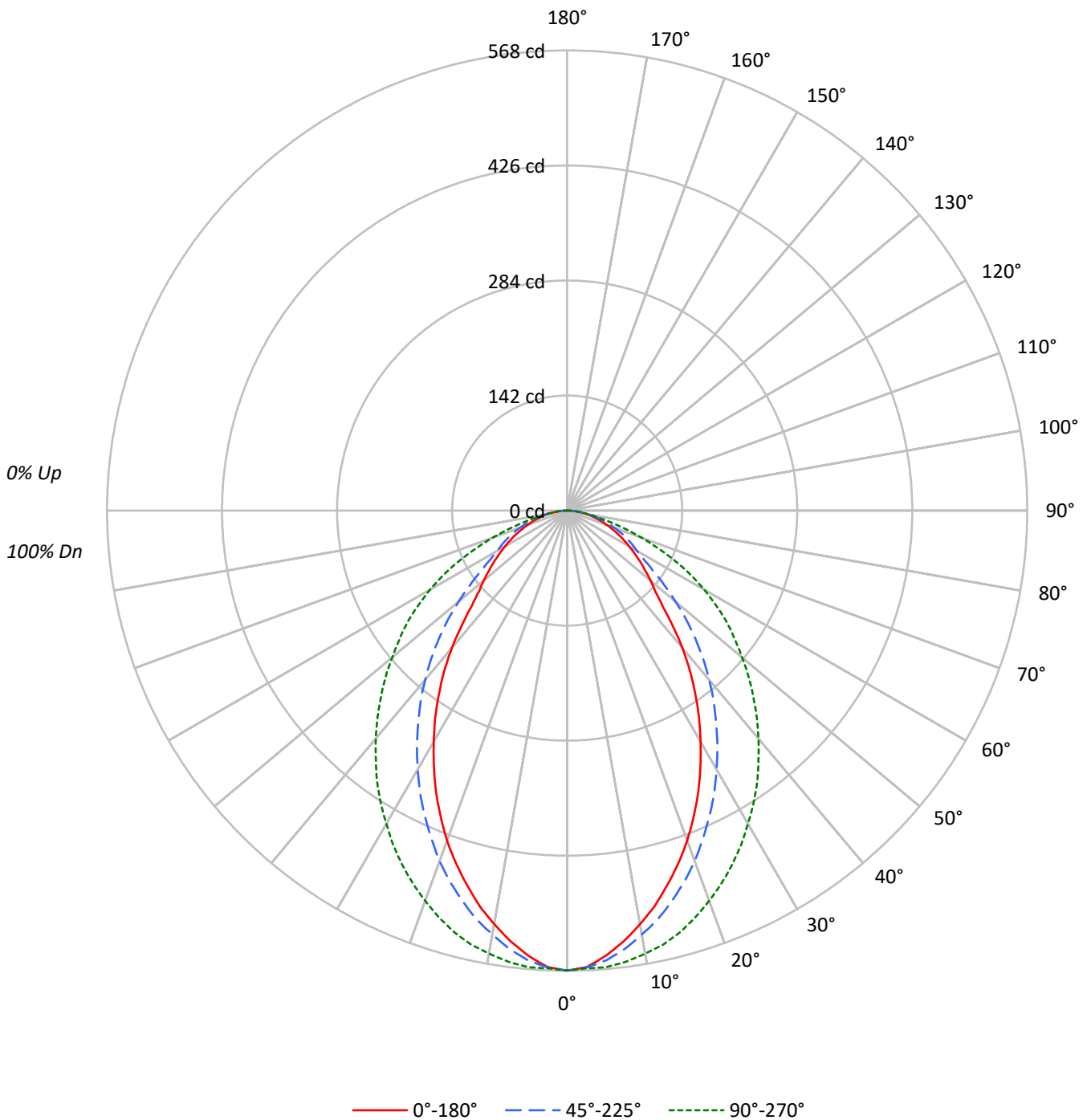
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1064.3 lumens  
Efficiency: N/A  
Efficacy: 54.3 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12  
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

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

	0°	45°	90°
0°	3909	3909	3909
5°	3810	3850	3908
10°	3624	3715	3882
15°	3408	3558	3841
20°	3175	3374	3757
25°	2908	3158	3663
30°	2620	2931	3549
35°	2317	2694	3437
40°	1988	2452	3303
45°	1623	2181	3165
50°	1440	1871	3020
55°	1320	1552	2893
60°	1219	1374	2695
65°	1137	1321	2403
70°	1061	1256	1965
75°	982	1176	1447
80°	924	1102	1059
85°	853	1074	893

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3165 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.5	4.9
10°-20°	141.5	13.3
20°-30°	194.5	18.3
30°-40°	206.1	19.4
40°-50°	179.9	16.9
50°-60°	136.7	12.8
60°-70°	91.6	8.6
70°-80°	47.2	4.4
80°-90°	14.2	1.3
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°	388.6	36.5
0°-40°	594.7	55.9
0°-60°	911.3	85.6
0°-90°	1064.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1064.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	551	557	557	561	566	52
15°	478	487	499	521	539	134
25°	383	395	416	450	482	175
35°	276	292	320	366	409	172
45°	167	183	224	277	325	132
55°	110	113	129	190	241	99
65°	70	72	81	108	148	69
75°	37	39	44	47	54	40
85°	11	14	14	12	11	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	567.7	567.7	567.7	567.7	567.7
2.5°	563.8	567.7	564.3	564.3	565.5
5°	551.3	557.0	557.0	560.9	565.5
7.5°	536.0	542.2	545.6	554.7	561.5
10°	518.4	525.2	531.4	545.1	555.3
12.5°	499.7	507.1	516.7	534.3	548.5
15°	478.1	487.2	499.1	521.2	538.8
17.5°	456.6	465.7	480.4	506.5	526.3
20°	433.3	443.0	460.5	488.9	512.7
22.5°	408.4	419.1	437.9	470.2	498.0
25°	382.8	394.8	415.7	450.3	482.1
27.5°	356.2	370.4	393.1	429.9	465.1
30°	329.5	343.7	368.7	408.9	446.4
32.5°	302.9	318.2	345.4	387.9	428.2
35°	275.6	291.5	320.5	365.8	408.9
37.5°	249.0	264.9	297.2	344.3	387.9
40°	221.2	237.6	272.8	322.2	367.5
42.5°	192.8	210.4	248.4	299.5	346.5
45°	166.7	183.2	224.0	277.3	325.0
47.5°	147.5	158.2	199.6	254.7	304.0
50°	134.4	140.1	174.7	232.5	281.9
52.5°	121.4	125.9	151.4	209.9	260.9
55°	110.0	113.4	129.3	190.0	241.0
57.5°	98.7	102.1	112.3	170.2	217.8
60°	88.5	91.3	99.8	149.2	195.7
62.5°	78.8	81.1	90.2	129.3	171.9
65°	69.8	71.5	81.1	108.3	147.5
67.5°	60.7	62.4	72.0	88.5	121.4
70°	52.7	53.3	62.4	72.0	97.6
72.5°	44.8	45.4	52.7	58.4	74.9
75°	36.9	39.1	44.2	47.1	54.4
77.5°	30.1	32.9	35.7	36.9	36.9
80°	23.3	26.7	27.8	27.8	26.7
82.5°	17.0	19.9	20.4	19.3	18.1
85°	10.8	13.6	13.6	12.5	11.3
87.5°	5.1	7.4	7.4	6.8	5.1
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	11.34	12.84	11.71	13.15	13.47	15.27	16.77	15.64	17.08	17.40
	3H	12.91	14.26	13.29	14.59	14.95	16.69	18.04	17.07	18.36	18.73
	4H	13.53	14.79	13.93	15.14	15.52	17.11	18.37	17.51	18.72	19.10
	6H	14.02	15.19	14.44	15.55	15.95	17.33	18.49	17.74	18.86	19.25
	8H	14.20	15.31	14.63	15.70	16.10	17.38	18.49	17.81	18.88	19.28
	12H	14.32	15.38	14.75	15.76	16.19	17.42	18.48	17.85	18.86	19.29
4H	2H	12.08	13.34	12.48	13.69	14.07	15.40	16.66	15.80	17.01	17.39
	3H	13.86	14.90	14.27	15.30	15.71	17.01	18.05	17.42	18.45	18.85
	4H	14.59	15.54	15.03	15.95	16.39	17.53	18.48	17.97	18.89	19.33
	6H	15.23	16.05	15.69	16.49	16.95	17.88	18.70	18.34	19.14	19.60
	8H	15.46	16.23	15.92	16.67	17.14	17.98	18.74	18.44	19.19	19.65
	12H	15.63	16.32	16.12	16.80	17.27	18.05	18.73	18.53	19.21	19.68
8H	4H	14.99	15.76	15.46	16.20	16.67	17.64	18.41	18.11	18.85	19.32
	6H	15.78	16.41	16.28	16.91	17.38	18.08	18.71	18.58	19.20	19.68
	8H	16.11	16.67	16.62	17.18	17.67	18.24	18.81	18.75	19.32	19.80
	12H	16.38	16.88	16.89	17.38	17.94	18.37	18.87	18.88	19.37	19.93
12H	4H	15.04	15.72	15.52	16.20	16.67	17.64	18.32	18.12	18.80	19.27
	6H	15.87	16.43	16.38	16.94	17.43	18.10	18.66	18.61	19.17	19.66
	8H	16.26	16.76	16.77	17.26	17.82	18.31	18.81	18.82	19.30	19.86