

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: P1061738

Luminaire Tested: S125RDRP-S610D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061738  
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-S610D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

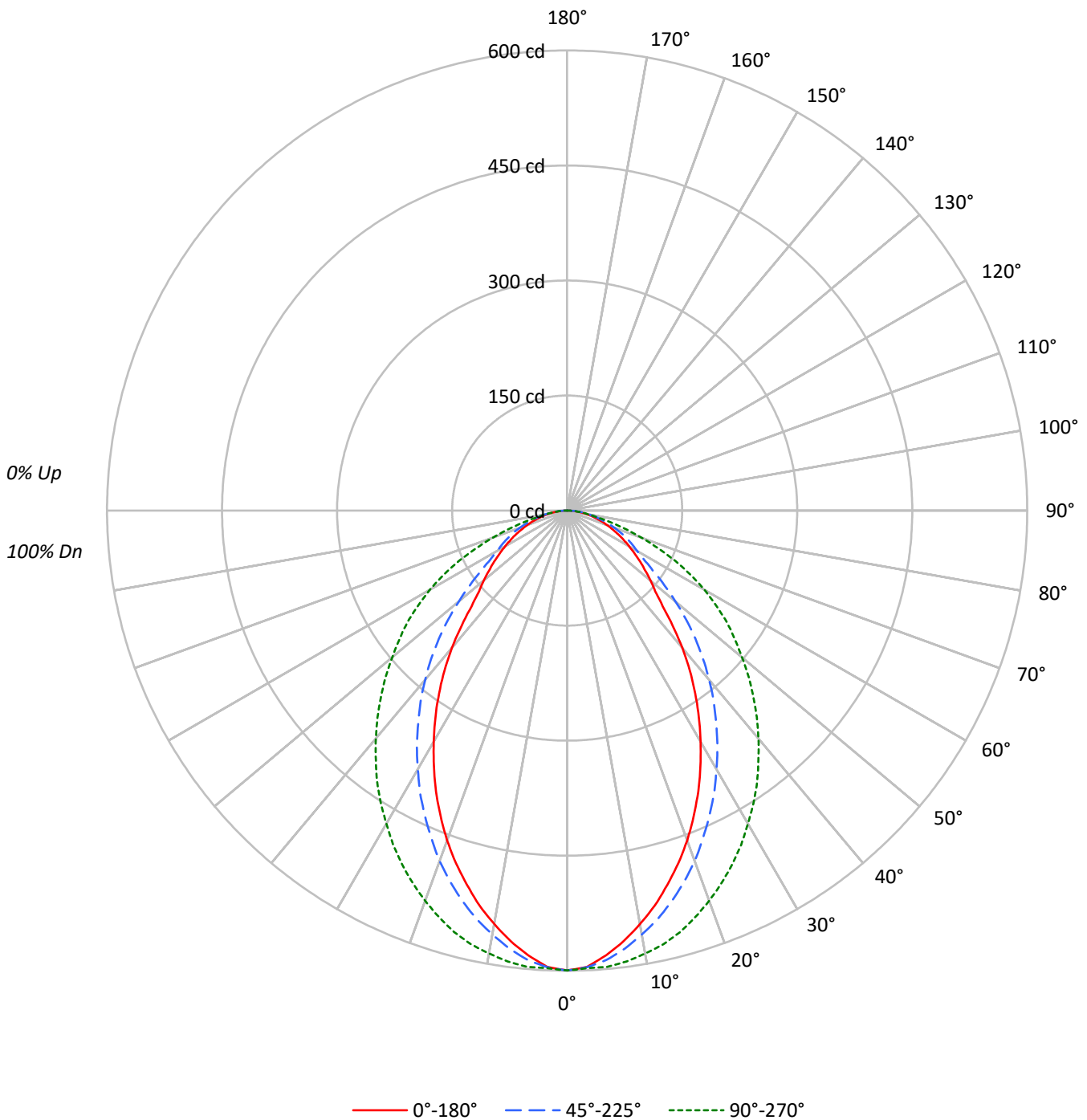
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1124.0 lumens  
Efficiency: N/A  
Efficacy: 57.3 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°	4128	4128	4128
5°	4024	4065	4128
10°	3828	3924	4100
15°	3599	3757	4056
20°	3353	3564	3968
25°	3071	3335	3868
30°	2767	3095	3748
35°	2447	2844	3630
40°	2100	2589	3488
45°	1715	2304	3342
50°	1521	1976	3189
55°	1395	1640	3056
60°	1286	1451	2845
65°	1201	1396	2537
70°	1121	1327	2074
75°	1035	1242	1530
80°	975	1162	1118
85°	901	1138	948

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3342 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.5	4.9
10°-20°	149.5	13.3
20°-30°	205.4	18.3
30°-40°	217.7	19.4
40°-50°	190.0	16.9
50°-60°	144.4	12.8
60°-70°	96.7	8.6
70°-80°	49.9	4.4
80°-90°	15.0	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°	410.3	36.5
0°-40°	628.0	55.9
0°-60°	962.4	85.6
0°-90°	1124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1124.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	582	588	588	592	597	54
15°	505	514	527	550	569	142
25°	404	417	439	476	509	185
35°	291	308	338	386	432	182
45°	176	194	237	293	343	139
55°	116	120	137	201	255	104
65°	74	76	86	114	156	73
75°	39	41	47	50	58	42
85°	11	14	14	13	12	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	599.6	599.6	599.6	599.6	599.6
2.5°	595.4	599.6	596.0	596.0	597.2
5°	582.2	588.2	588.2	592.4	597.2
7.5°	566.0	572.6	576.2	585.8	593.0
10°	547.5	554.6	561.2	575.6	586.4
12.5°	527.7	535.5	545.7	564.2	579.2
15°	504.9	514.5	527.1	550.4	569.0
17.5°	482.2	491.8	507.3	534.9	555.8
20°	457.6	467.8	486.4	516.3	541.5
22.5°	431.3	442.6	462.4	496.5	525.9
25°	404.3	416.9	439.0	475.6	509.1
27.5°	376.2	391.1	415.1	454.0	491.2
30°	348.0	363.0	389.3	431.9	471.4
32.5°	319.8	336.0	364.8	409.7	452.2
35°	291.1	307.9	338.4	386.3	431.9
37.5°	262.9	279.7	313.9	363.6	409.7
40°	233.6	251.0	288.1	340.2	388.1
42.5°	203.6	222.2	262.3	316.3	366.0
45°	176.1	193.5	236.6	292.9	343.2
47.5°	155.7	167.1	210.8	268.9	321.0
50°	142.0	147.9	184.5	245.6	297.7
52.5°	128.2	133.0	159.9	221.6	275.5
55°	116.2	119.8	136.6	200.7	254.6
57.5°	104.2	107.8	118.6	179.7	230.0
60°	93.4	96.4	105.4	157.5	206.6
62.5°	83.3	85.7	95.2	136.6	181.5
65°	73.7	75.5	85.7	114.4	155.7
67.5°	64.1	65.9	76.1	93.4	128.2
70°	55.7	56.3	65.9	76.1	103.0
72.5°	47.3	47.9	55.7	61.7	79.1
75°	38.9	41.3	46.7	49.7	57.5
77.5°	31.7	34.7	37.7	38.9	38.9
80°	24.6	28.2	29.3	29.3	28.2
82.5°	18.0	21.0	21.6	20.4	19.2
85°	11.4	14.4	14.4	13.2	12.0
87.5°	5.4	7.8	7.8	7.2	5.4
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	11.53	13.03	11.90	13.34	13.66	15.46	16.96	15.83	17.27	17.59
	3H	13.10	14.45	13.48	14.77	15.14	16.88	18.22	17.26	18.55	18.91
	4H	13.72	14.98	14.12	15.32	15.70	17.30	18.56	17.70	18.90	19.28
	6H	14.21	15.37	14.62	15.74	16.13	17.51	18.68	17.93	19.04	19.44
	8H	14.39	15.49	14.81	15.88	16.28	17.57	18.68	18.00	19.07	19.47
	12H	14.51	15.57	14.94	15.95	16.38	17.61	18.67	18.04	19.05	19.48
4H	2H	12.27	13.53	12.67	13.88	14.26	15.59	16.85	15.99	17.19	17.57
	3H	14.05	15.09	14.46	15.49	15.90	17.20	18.24	17.61	18.64	19.04
	4H	14.78	15.72	15.22	16.14	16.58	17.72	18.66	18.16	19.08	19.52
	6H	15.42	16.24	15.88	16.68	17.14	18.07	18.88	18.52	19.33	19.79
	8H	15.65	16.41	16.11	16.86	17.33	18.17	18.93	18.63	19.37	19.84
	12H	15.82	16.51	16.31	16.98	17.46	18.24	18.92	18.72	19.40	19.87
8H	4H	15.18	15.95	15.65	16.39	16.86	17.83	18.59	18.29	19.04	19.51
	6H	15.97	16.60	16.47	17.09	17.57	18.27	18.90	18.77	19.39	19.87
	8H	16.30	16.86	16.81	17.37	17.86	18.43	18.99	18.94	19.50	19.99
	12H	16.57	17.07	17.08	17.56	18.13	18.56	19.06	19.07	19.56	20.12
12H	4H	15.23	15.91	15.71	16.39	16.86	17.83	18.51	18.31	18.99	19.46
	6H	16.05	16.62	16.57	17.13	17.62	18.28	18.85	18.80	19.36	19.85
	8H	16.45	16.95	16.96	17.44	18.01	18.49	18.99	19.00	19.49	20.05