

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: P1061492

Luminaire Tested: S125RDRP-S1090D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S1090D935-X4F0-XX-UDD-SVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

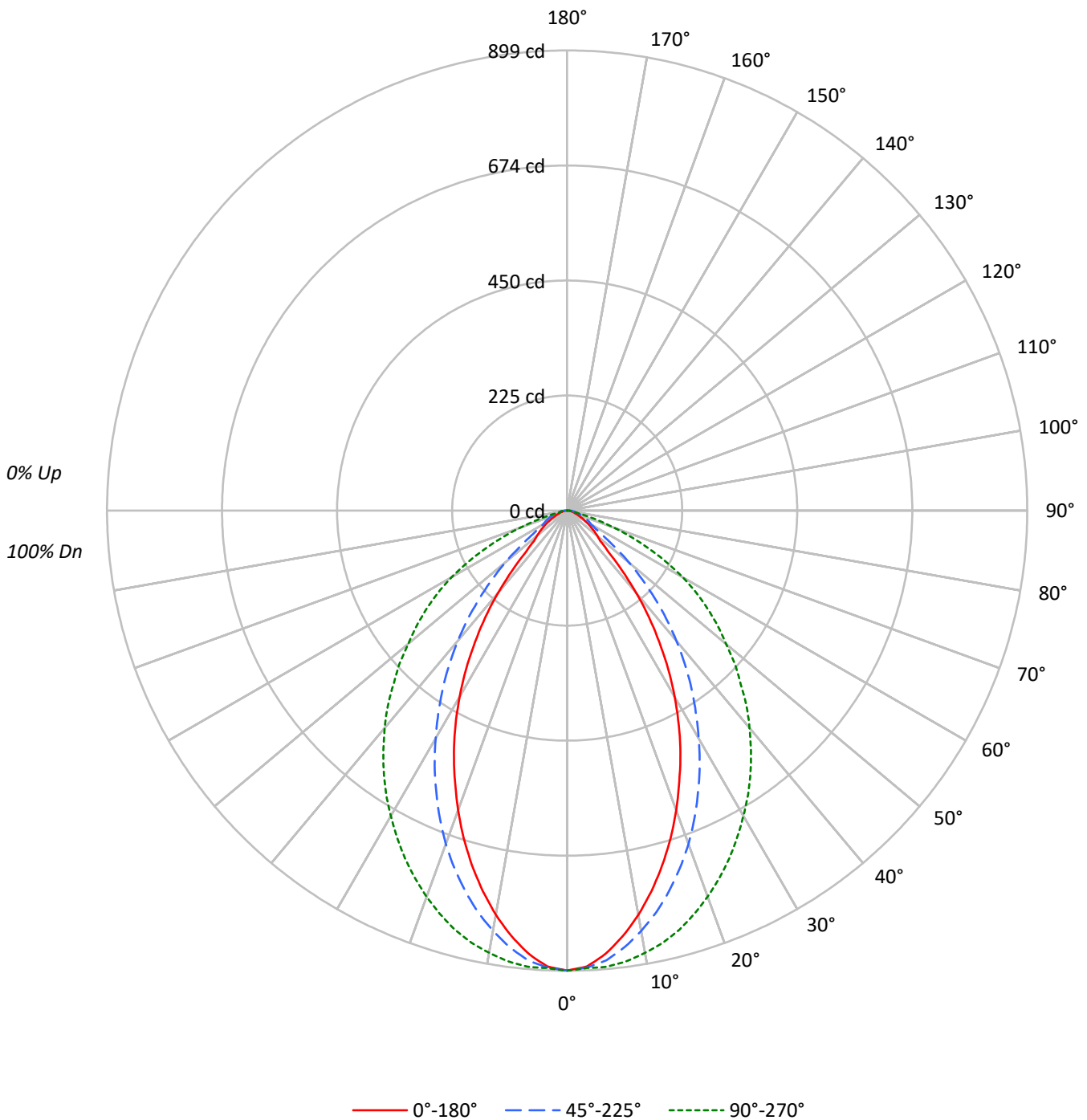
Lumens per Lamp: N/A  
Luminaire Lumens: 1297.7 lumens  
Efficiency: N/A  
Efficacy: 37.1 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 35  
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	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	106	103	100	101	99	97	98	96	94	94	93	91	89																												
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																												
3	96	88	81	76	94	87	80	76	84	79	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	63																												
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56																												
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	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	41	39																												
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36																												

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

	0°	45°	90°
0°	6188	6188	6188
5°	6005	6094	6182
10°	5605	5829	6134
15°	5114	5487	6042
20°	4562	5078	5882
25°	3977	4601	5694
30°	3340	4086	5475
35°	2634	3558	5251
40°	1887	2989	4983
45°	1111	2346	4672
50°	823	1690	4339
55°	691	1024	4031
60°	558	749	3597
65°	435	712	2884
70°	364	664	1953
75°	341	596	851
80°	337	591	551
85°	419	758	592

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4672 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.8	6.4
10°-20°	217.5	16.8
20°-30°	284.3	21.9
30°-40°	276.7	21.3
40°-50°	206.8	15.9
50°-60°	128.3	9.9
60°-70°	67.4	5.2
70°-80°	24.5	1.9
80°-90°	9.3	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°	584.7	45.1
0°-40°	861.4	66.4
0°-60°	1196.5	92.2
0°-90°	1297.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1297.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	869	881	882	887	894	81
15°	718	739	770	817	848	200
25°	524	550	606	688	750	239
35°	313	348	423	536	625	195
45°	114	149	241	376	480	96
55°	58	61	85	222	336	52
65°	27	29	44	94	177	28
75°	13	15	22	24	32	14
85°	5	10	10	10	8	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	898.7	898.7	898.7	898.7	898.7
2.5°	891.3	898.7	893.4	893.4	894.5
5°	868.9	880.6	881.7	887.0	894.5
7.5°	838.0	851.8	860.4	876.4	888.1
10°	801.7	817.7	833.7	860.4	877.4
12.5°	761.2	780.4	803.9	840.1	864.6
15°	717.5	738.8	769.7	816.7	847.6
17.5°	671.7	694.0	732.4	788.9	826.2
20°	622.6	647.1	693.0	756.9	802.8
22.5°	572.5	600.2	650.3	722.8	777.2
25°	523.5	550.1	605.6	687.6	749.5
27.5°	472.3	500.0	560.8	651.4	719.6
30°	420.1	449.9	513.9	614.1	688.7
32.5°	367.8	398.7	468.0	575.7	657.8
35°	313.4	347.6	423.3	536.3	624.7
37.5°	262.3	298.5	377.4	495.7	589.6
40°	210.0	247.3	332.6	456.3	554.4
42.5°	158.9	197.2	286.8	415.8	519.2
45°	114.1	149.3	240.9	376.3	479.8
47.5°	87.4	107.7	198.3	335.8	444.6
50°	76.8	83.2	157.8	296.4	405.1
52.5°	67.2	71.4	117.3	258.0	371.0
55°	57.6	60.8	85.3	221.8	335.8
57.5°	49.0	52.2	65.0	188.7	299.6
60°	40.5	43.7	54.4	155.7	261.2
62.5°	34.1	35.2	49.0	124.7	218.6
65°	26.7	28.8	43.7	93.8	177.0
67.5°	22.4	23.5	38.4	67.2	136.5
70°	18.1	19.2	33.0	46.9	97.0
72.5°	16.0	16.0	27.7	34.1	61.8
75°	12.8	14.9	22.4	24.5	32.0
77.5°	10.7	14.9	19.2	18.1	17.1
80°	8.5	13.9	14.9	14.9	13.9
82.5°	7.5	11.7	12.8	11.7	10.7
85°	5.3	9.6	9.6	9.6	7.5
87.5°	4.3	8.5	7.5	7.5	5.3
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	6.11	7.46	6.48	7.78	8.09	15.82	17.17	16.19	17.49	17.80
	3H	6.96	8.15	7.33	8.48	8.85	16.74	17.93	17.12	18.26	18.63
	4H	7.31	8.43	7.72	8.78	9.16	16.83	17.95	17.24	18.30	18.68
	6H	7.69	8.72	8.10	9.09	9.48	16.82	17.85	17.23	18.22	18.61
	8H	7.87	8.84	8.30	9.23	9.64	16.81	17.78	17.24	18.17	18.58
	12H	8.03	8.96	8.47	9.35	9.78	16.79	17.72	17.23	18.11	18.54
4H	2H	6.94	8.06	7.35	8.41	8.79	15.67	16.79	16.08	17.14	17.52
	3H	8.00	8.92	8.42	9.32	9.72	16.66	17.58	17.08	17.98	18.38
	4H	8.46	9.28	8.89	9.69	10.14	16.79	17.61	17.23	18.03	18.47
	6H	9.02	9.72	9.48	10.17	10.63	16.82	17.53	17.29	17.98	18.44
	8H	9.28	9.94	9.75	10.38	10.85	16.83	17.48	17.29	17.93	18.40
	12H	9.52	10.10	10.00	10.58	11.06	16.83	17.42	17.32	17.90	18.37
8H	4H	9.01	9.67	9.48	10.12	10.59	16.72	17.38	17.19	17.82	18.29
	6H	9.79	10.33	10.29	10.83	11.31	16.78	17.32	17.28	17.81	18.29
	8H	10.21	10.69	10.73	11.21	11.70	16.81	17.29	17.33	17.80	18.30
	12H	10.63	11.05	11.14	11.55	12.12	16.86	17.29	17.37	17.78	18.35
12H	4H	9.07	9.66	9.56	10.14	10.61	16.68	17.27	17.17	17.75	18.22
	6H	9.94	10.42	10.46	10.94	11.43	16.74	17.23	17.26	17.74	18.23
	8H	10.46	10.89	10.98	11.39	11.96	16.81	17.24	17.32	17.73	18.30