

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: P1061474

Luminaire Tested: S125RDRP-S1090D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061474  
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-S1090D927-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

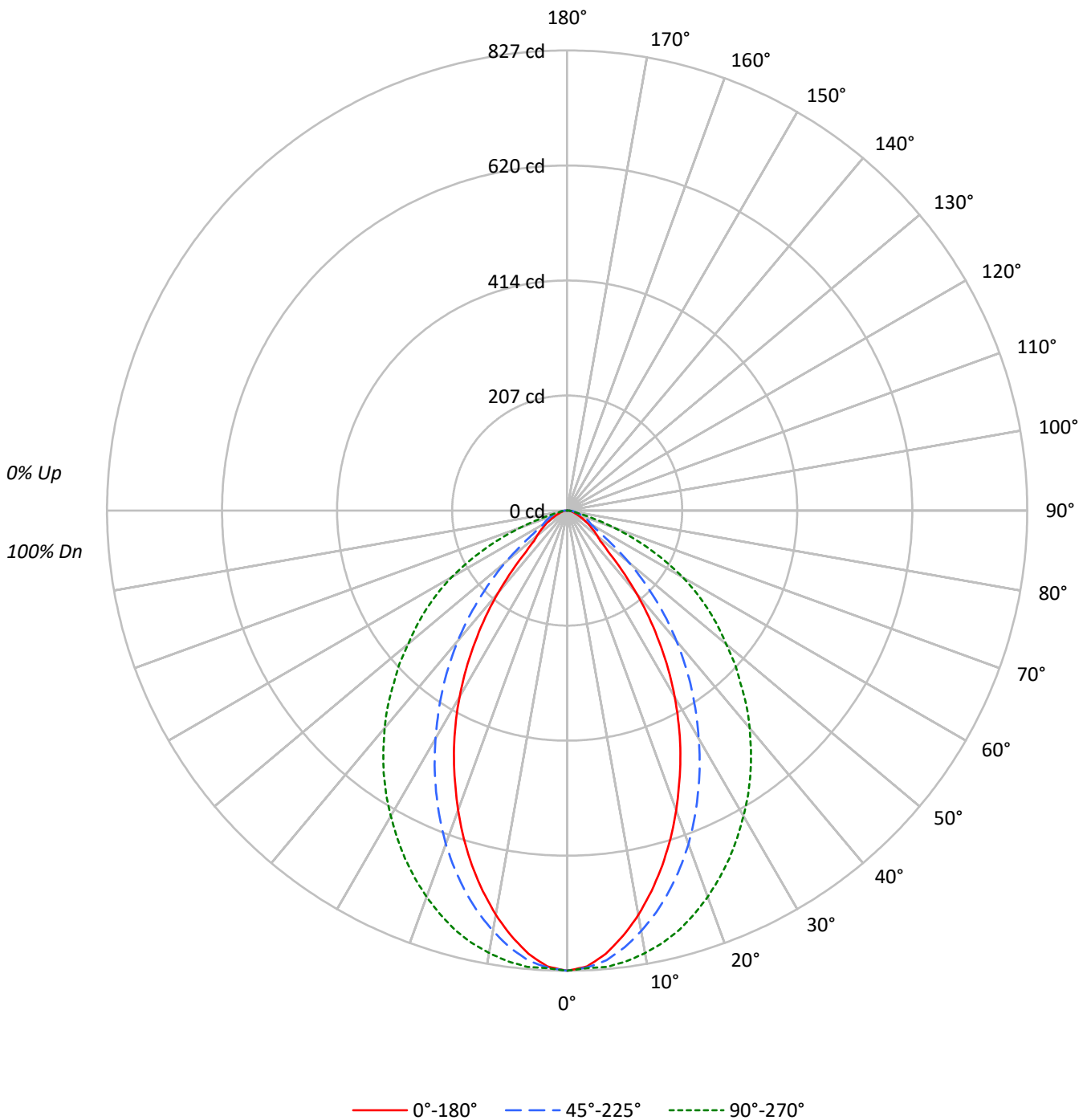
Lumens per Lamp: N/A  
Luminaire Lumens: 1194.0 lumens  
Efficiency: N/A  
Efficacy: 34.1 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (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	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					100			
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56					56			
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36					36			

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

	0°	45°	90°
0°	5693	5693	5693
5°	5525	5607	5688
10°	5157	5363	5644
15°	4706	5048	5559
20°	4198	4672	5412
25°	3659	4233	5239
30°	3073	3759	5038
35°	2424	3273	4831
40°	1736	2750	4585
45°	1022	2159	4298
50°	756	1555	3992
55°	636	942	3709
60°	514	689	3309
65°	399	655	2652
70°	336	612	1798
75°	314	548	782
80°	309	543	508
85°	387	695	545

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4298 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.2	6.4
10°-20°	200.2	16.8
20°-30°	261.6	21.9
30°-40°	254.6	21.3
40°-50°	190.3	15.9
50°-60°	118.0	9.9
60°-70°	62.0	5.2
70°-80°	22.6	1.9
80°-90°	8.5	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°	537.9	45.1
0°-40°	792.6	66.4
0°-60°	1100.9	92.2
0°-90°	1194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	799	810	811	816	823	74
15°	660	680	708	751	780	184
25°	482	506	557	633	690	220
35°	288	320	389	493	575	179
45°	105	137	222	346	441	88
55°	53	56	78	204	309	48
65°	24	26	40	86	163	26
75°	12	14	21	23	29	13
85°	5	9	9	9	7	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	826.9	826.9	826.9	826.9	826.9
2.5°	820.0	826.9	822.0	822.0	823.0
5°	799.4	810.2	811.2	816.1	823.0
7.5°	771.0	783.7	791.6	806.3	817.1
10°	737.6	752.4	767.1	791.6	807.3
12.5°	700.4	718.0	739.6	773.0	795.5
15°	660.2	679.8	708.2	751.4	779.8
17.5°	618.0	638.6	673.9	725.9	760.2
20°	572.9	595.4	637.6	696.4	738.6
22.5°	526.7	552.3	598.4	665.1	715.1
25°	481.6	506.2	557.2	632.7	689.6
27.5°	434.5	460.0	516.0	599.3	662.1
30°	386.5	413.9	472.8	565.0	633.7
32.5°	338.4	366.9	430.6	529.7	605.2
35°	288.4	319.8	389.4	493.4	574.8
37.5°	241.3	274.7	347.2	456.1	542.4
40°	193.2	227.6	306.0	419.8	510.1
42.5°	146.2	181.5	263.9	382.6	477.7
45°	105.0	137.3	221.7	346.3	441.4
47.5°	80.4	99.1	182.4	309.0	409.0
50°	70.6	76.5	145.2	272.7	372.7
52.5°	61.8	65.7	107.9	237.4	341.4
55°	53.0	55.9	78.5	204.0	309.0
57.5°	45.1	48.1	59.8	173.6	275.6
60°	37.3	40.2	50.0	143.2	240.3
62.5°	31.4	32.4	45.1	114.8	201.1
65°	24.5	26.5	40.2	86.3	162.8
67.5°	20.6	21.6	35.3	61.8	125.6
70°	16.7	17.7	30.4	43.2	89.3
72.5°	14.7	14.7	25.5	31.4	56.9
75°	11.8	13.7	20.6	22.6	29.4
77.5°	9.8	13.7	17.7	16.7	15.7
80°	7.8	12.8	13.7	13.7	12.8
82.5°	6.9	10.8	11.8	10.8	9.8
85°	4.9	8.8	8.8	8.8	6.9
87.5°	3.9	7.8	6.9	6.9	4.9
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	5.83	7.18	6.20	7.50	7.81	15.53	16.88	15.90	17.20	17.51
	3H	6.67	7.87	7.05	8.20	8.57	16.45	17.64	16.83	17.97	18.34
	4H	7.03	8.15	7.43	8.50	8.88	16.54	17.66	16.95	18.01	18.39
	6H	7.40	8.43	7.82	8.80	9.19	16.53	17.56	16.94	17.93	18.32
	8H	7.58	8.56	8.01	8.95	9.35	16.52	17.49	16.95	17.88	18.29
	12H	7.75	8.68	8.18	9.06	9.49	16.50	17.43	16.94	17.82	18.25
4H	2H	6.66	7.78	7.06	8.13	8.51	15.38	16.50	15.79	16.85	17.23
	3H	7.72	8.63	8.13	9.04	9.44	16.37	17.29	16.79	17.69	18.09
	4H	8.17	8.99	8.61	9.41	9.85	16.50	17.32	16.94	17.74	18.18
	6H	8.73	9.44	9.19	9.88	10.35	16.54	17.24	17.00	17.69	18.15
	8H	8.99	9.65	9.46	10.10	10.57	16.54	17.20	17.00	17.64	18.11
	12H	9.23	9.82	9.72	10.30	10.77	16.54	17.13	17.03	17.61	18.08
8H	4H	8.73	9.39	9.20	9.83	10.31	16.43	17.09	16.90	17.53	18.00
	6H	9.51	10.05	10.01	10.54	11.02	16.49	17.03	16.99	17.52	18.00
	8H	9.92	10.41	10.44	10.92	11.41	16.52	17.00	17.04	17.52	18.01
	12H	10.34	10.77	10.85	11.26	11.83	16.57	17.00	17.08	17.49	18.06
12H	4H	8.79	9.37	9.27	9.86	10.33	16.39	16.98	16.88	17.46	17.93
	6H	9.65	10.13	10.17	10.65	11.14	16.45	16.94	16.97	17.45	17.94
	8H	10.18	10.61	10.69	11.10	11.67	16.52	16.95	17.03	17.44	18.01