

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: P1061960

Luminaire Tested: S125RDRP-H1270D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061960  
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-H1270D927-X4F0-XX-UDD-SVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

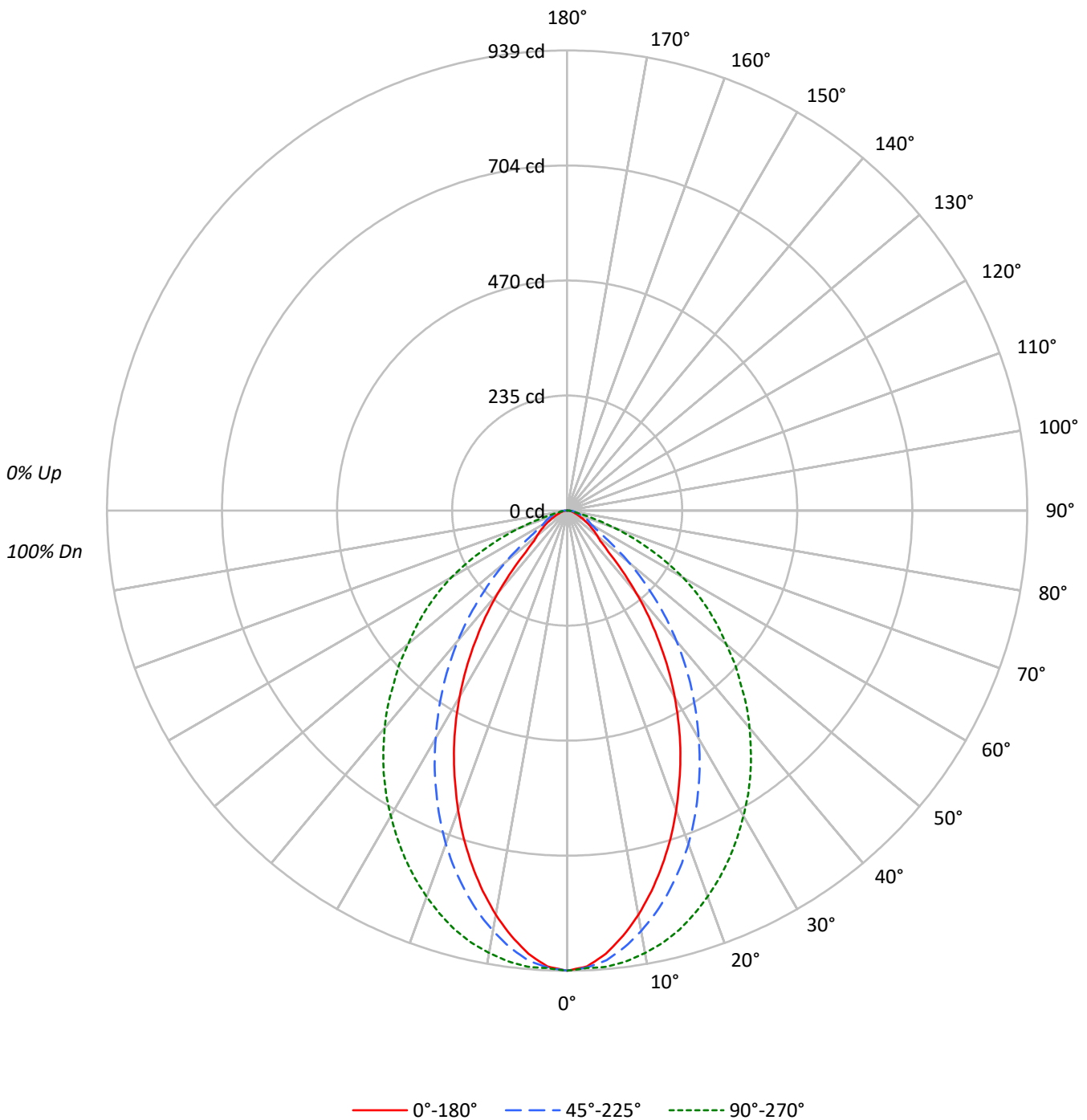
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1355.5 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): 36.5  
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°	6464	6464	6464
5°	6273	6365	6457
10°	5855	6088	6408
15°	5342	5731	6311
20°	4765	5303	6144
25°	4154	4805	5948
30°	3489	4268	5720
35°	2752	3716	5485
40°	1972	3122	5205
45°	1161	2451	4879
50°	859	1765	4533
55°	721	1070	4211
60°	582	782	3757
65°	453	745	3012
70°	380	695	2039
75°	356	622	889
80°	353	619	575
85°	442	790	616

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4879 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.5	6.4
10°-20°	227.2	16.8
20°-30°	297.0	21.9
30°-40°	289.1	21.3
40°-50°	216.0	15.9
50°-60°	134.0	9.9
60°-70°	70.4	5.2
70°-80°	25.6	1.9
80°-90°	9.7	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°	610.7	45.1
0°-40°	899.8	66.4
0°-60°	1249.8	92.2
0°-90°	1355.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1355.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	908	920	921	926	934	84
15°	749	772	804	853	885	209
25°	547	575	632	718	783	250
35°	327	363	442	560	653	204
45°	119	156	252	393	501	100
55°	60	64	89	232	351	54
65°	28	30	46	98	185	29
75°	13	16	23	26	33	15
85°	6	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°	938.8	938.8	938.8	938.8	938.8
2.5°	931.0	938.8	933.2	933.2	934.3
5°	907.6	919.8	920.9	926.5	934.3
7.5°	875.3	889.8	898.7	915.4	927.6
10°	837.4	854.1	870.8	898.7	916.5
12.5°	795.1	815.1	839.6	877.5	903.1
15°	749.4	771.7	804.0	853.0	885.3
17.5°	701.6	724.9	765.0	824.1	863.0
20°	650.3	675.9	723.8	790.6	838.5
22.5°	598.0	627.0	679.3	755.0	811.8
25°	546.8	574.6	632.5	718.3	782.9
27.5°	493.3	522.3	585.7	680.4	751.7
30°	438.8	469.9	536.8	641.4	719.4
32.5°	384.2	416.5	488.9	601.3	687.1
35°	327.4	363.0	442.1	560.1	652.6
37.5°	273.9	311.8	394.2	517.8	615.8
40°	219.4	258.4	347.4	476.6	579.1
42.5°	165.9	206.0	299.6	434.3	542.3
45°	119.2	155.9	251.7	393.1	501.1
47.5°	91.3	112.5	207.1	350.8	464.4
50°	80.2	86.9	164.8	309.6	423.2
52.5°	70.2	74.6	122.5	269.5	387.5
55°	60.1	63.5	89.1	231.6	350.8
57.5°	51.2	54.6	67.9	197.1	312.9
60°	42.3	45.7	56.8	162.6	272.8
62.5°	35.6	36.7	51.2	130.3	228.3
65°	27.8	30.1	45.7	98.0	184.9
67.5°	23.4	24.5	40.1	70.2	142.5
70°	18.9	20.0	34.5	49.0	101.3
72.5°	16.7	16.7	29.0	35.6	64.6
75°	13.4	15.6	23.4	25.6	33.4
77.5°	11.1	15.6	20.0	18.9	17.8
80°	8.9	14.5	15.6	15.6	14.5
82.5°	7.8	12.2	13.4	12.2	11.1
85°	5.6	10.0	10.0	10.0	7.8
87.5°	4.5	8.9	7.8	7.8	5.6
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	6.27	7.62	6.64	7.94	8.25	15.97	17.32	16.34	17.64	17.95
	3H	7.11	8.31	7.49	8.64	9.00	16.89	18.08	17.27	18.41	18.78
	4H	7.47	8.59	7.87	8.94	9.32	16.98	18.10	17.39	18.45	18.83
	6H	7.84	8.87	8.26	9.24	9.63	16.97	18.00	17.38	18.37	18.76
	8H	8.02	9.00	8.45	9.39	9.79	16.96	17.93	17.39	18.32	18.73
	12H	8.19	9.12	8.62	9.50	9.93	16.94	17.87	17.38	18.26	18.69
4H	2H	7.10	8.22	7.51	8.57	8.95	15.83	16.94	16.23	17.29	17.68
	3H	8.16	9.07	8.57	9.48	9.88	16.81	17.73	17.23	18.13	18.54
	4H	8.61	9.43	9.05	9.85	10.29	16.94	17.76	17.38	18.18	18.62
	6H	9.17	9.88	9.63	10.32	10.79	16.98	17.68	17.44	18.13	18.59
	8H	9.43	10.09	9.90	10.54	11.01	16.98	17.64	17.44	18.08	18.55
	12H	9.67	10.26	10.16	10.74	11.21	16.98	17.57	17.47	18.05	18.52
8H	4H	9.17	9.83	9.64	10.28	10.75	16.87	17.53	17.34	17.97	18.44
	6H	9.95	10.49	10.45	10.98	11.46	16.93	17.47	17.43	17.96	18.44
	8H	10.36	10.85	10.88	11.36	11.85	16.96	17.44	17.48	17.96	18.45
	12H	10.78	11.21	11.29	11.70	12.27	17.01	17.44	17.52	17.93	18.50
12H	4H	9.23	9.81	9.72	10.30	10.77	16.83	17.42	17.32	17.90	18.37
	6H	10.09	10.58	10.61	11.09	11.58	16.89	17.38	17.41	17.89	18.38
	8H	10.62	11.04	11.13	11.54	12.11	16.96	17.39	17.47	17.88	18.45