

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: P1061996

Luminaire Tested: S125RDRP-H1270D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061996  
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-H1270D950-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: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

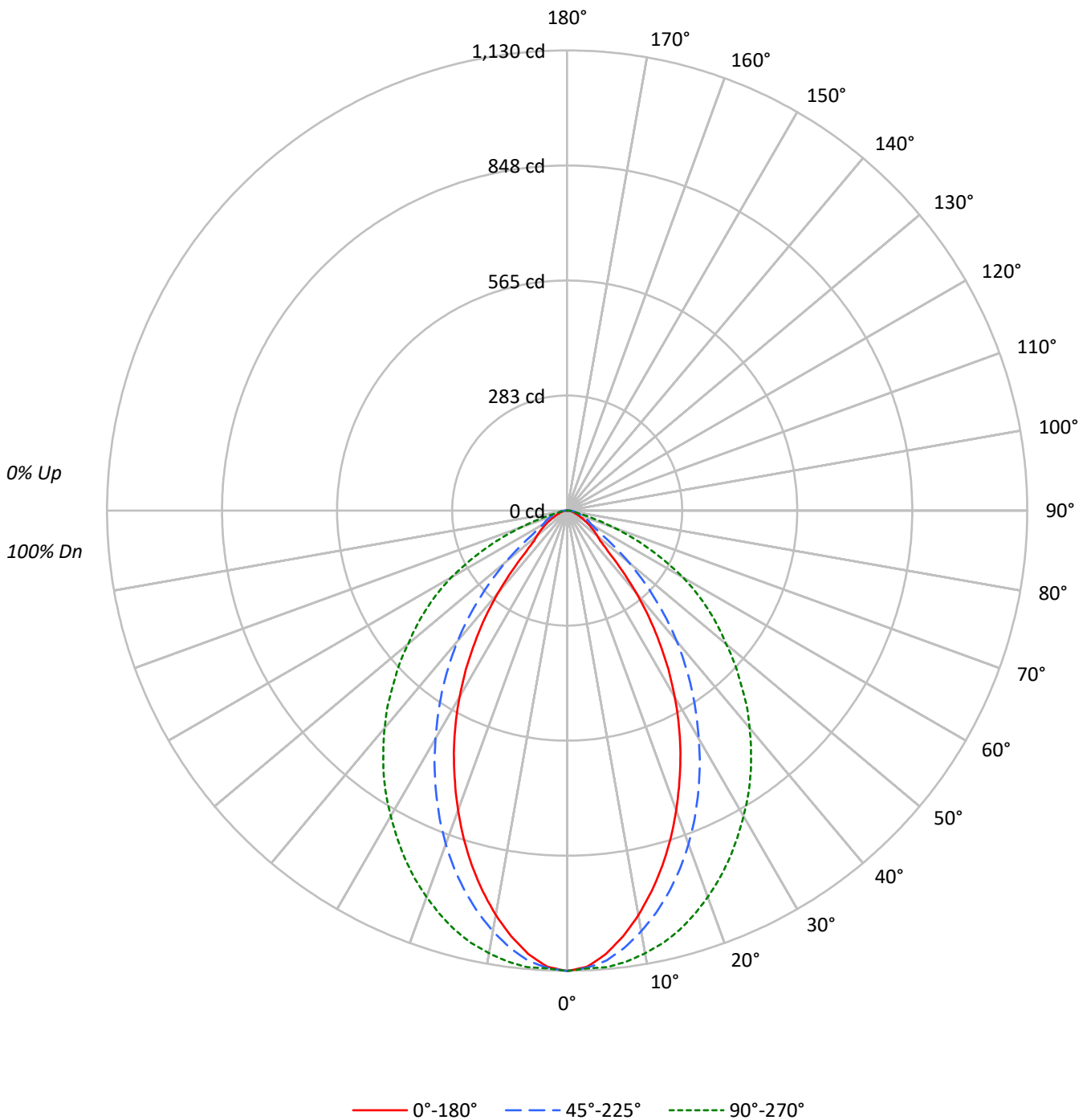
Lumens per Lamp: N/A  
Luminaire Lumens: 1632.4 lumens  
Efficiency: N/A  
Efficacy: 44.7 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct

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	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°	7784	7784	7784
5°	7554	7666	7777
10°	7051	7332	7716
15°	6433	6901	7599
20°	5739	6387	7399
25°	5003	5787	7162
30°	4201	5139	6887
35°	3314	4475	6606
40°	2375	3761	6268
45°	1397	2951	5876
50°	1035	2126	5459
55°	869	1288	5071
60°	702	942	4525
65°	546	896	3627
70°	459	837	2456
75°	428	750	1069
80°	424	745	690
85°	529	956	743

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5876 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	6.4
10°-20°	273.7	16.8
20°-30°	357.6	21.9
30°-40°	348.1	21.3
40°-50°	260.2	15.9
50°-60°	161.4	9.9
60°-70°	84.8	5.2
70°-80°	30.9	1.9
80°-90°	11.7	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°	735.4	45.1
0°-40°	1083.6	66.4
0°-60°	1505.1	92.2
0°-90°	1632.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1632.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1093	1108	1109	1116	1125	102
15°	902	929	968	1027	1066	252
25°	658	692	762	865	943	301
35°	394	437	532	675	786	245
45°	144	188	303	473	604	121
55°	72	76	107	279	422	65
65°	34	36	55	118	223	35
75°	16	19	28	31	40	17
85°	7	12	12	12	9	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1130.5	1130.5	1130.5	1130.5	1130.5
2.5°	1121.1	1130.5	1123.8	1123.8	1125.2
5°	1093.0	1107.7	1109.1	1115.8	1125.2
7.5°	1054.1	1071.5	1082.2	1102.4	1117.1
10°	1008.5	1028.6	1048.7	1082.2	1103.7
12.5°	957.5	981.7	1011.2	1056.8	1087.6
15°	902.5	929.4	968.2	1027.3	1066.1
17.5°	844.9	873.0	921.3	992.4	1039.3
20°	783.2	814.0	871.7	952.2	1009.8
22.5°	720.2	755.0	818.0	909.2	977.6
25°	658.5	692.0	761.7	865.0	942.8
27.5°	594.1	629.0	705.4	819.4	905.2
30°	528.4	565.9	646.4	772.5	866.3
32.5°	462.7	501.6	588.7	724.2	827.4
35°	394.3	437.2	532.4	674.6	785.9
37.5°	329.9	375.5	474.7	623.6	741.6
40°	264.2	311.1	418.4	574.0	697.4
42.5°	199.8	248.1	360.7	523.0	653.1
45°	143.5	187.7	303.1	473.4	603.5
47.5°	110.0	135.4	249.4	422.4	559.2
50°	96.6	104.6	198.5	372.8	509.6
52.5°	84.5	89.9	147.5	324.5	466.7
55°	72.4	76.4	107.3	278.9	422.4
57.5°	61.7	65.7	81.8	237.4	376.8
60°	51.0	55.0	68.4	195.8	328.6
62.5°	42.9	44.3	61.7	156.9	274.9
65°	33.5	36.2	55.0	118.0	222.6
67.5°	28.2	29.5	48.3	84.5	171.7
70°	22.8	24.1	41.6	59.0	122.0
72.5°	20.1	20.1	34.9	42.9	77.8
75°	16.1	18.8	28.2	30.8	40.2
77.5°	13.4	18.8	24.1	22.8	21.5
80°	10.7	17.4	18.8	18.8	17.4
82.5°	9.4	14.8	16.1	14.8	13.4
85°	6.7	12.1	12.1	12.1	9.4
87.5°	5.4	10.7	9.4	9.4	6.7
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	6.92	8.27	7.28	8.58	8.89	16.62	17.97	16.99	18.28	18.60
	3H	7.76	8.95	8.13	9.28	9.65	17.53	18.73	17.91	19.06	19.43
	4H	8.11	9.23	8.52	9.58	9.96	17.63	18.75	18.03	19.10	19.48
	6H	8.49	9.51	8.90	9.88	10.28	17.62	18.64	18.03	19.01	19.41
	8H	8.67	9.64	9.10	10.03	10.44	17.60	18.58	18.03	18.97	19.37
	12H	8.83	9.76	9.26	10.14	10.57	17.59	18.52	18.02	18.90	19.33
4H	2H	7.75	8.86	8.15	9.21	9.60	16.47	17.59	16.87	17.94	18.32
	3H	8.80	9.72	9.22	10.12	10.52	17.46	18.38	17.87	18.78	19.18
	4H	9.26	10.08	9.69	10.50	10.94	17.59	18.41	18.02	18.83	19.27
	6H	9.82	10.52	10.28	10.97	11.43	17.62	18.33	18.08	18.77	19.24
	8H	10.08	10.74	10.54	11.18	11.65	17.62	18.28	18.09	18.73	19.20
	12H	10.32	10.90	10.80	11.38	11.86	17.63	18.21	18.12	18.70	19.17
8H	4H	9.81	10.47	10.28	10.92	11.39	17.51	18.17	17.98	18.62	19.09
	6H	10.59	11.13	11.09	11.63	12.11	17.57	18.11	18.08	18.61	19.09
	8H	11.01	11.49	11.53	12.01	12.50	17.60	18.09	18.12	18.60	19.09
	12H	11.43	11.86	11.94	12.35	12.92	17.66	18.09	18.17	18.58	19.15
12H	4H	9.88	10.46	10.36	10.94	11.41	17.48	18.06	17.97	18.55	19.02
	6H	10.74	11.22	11.26	11.73	12.23	17.54	18.03	18.06	18.54	19.03
	8H	11.26	11.69	11.78	12.19	12.76	17.61	18.03	18.12	18.53	19.10