

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: P1061570

Luminaire Tested: S125RDRP-S1270D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S1270D935-X4F0-XX-UDD-BVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

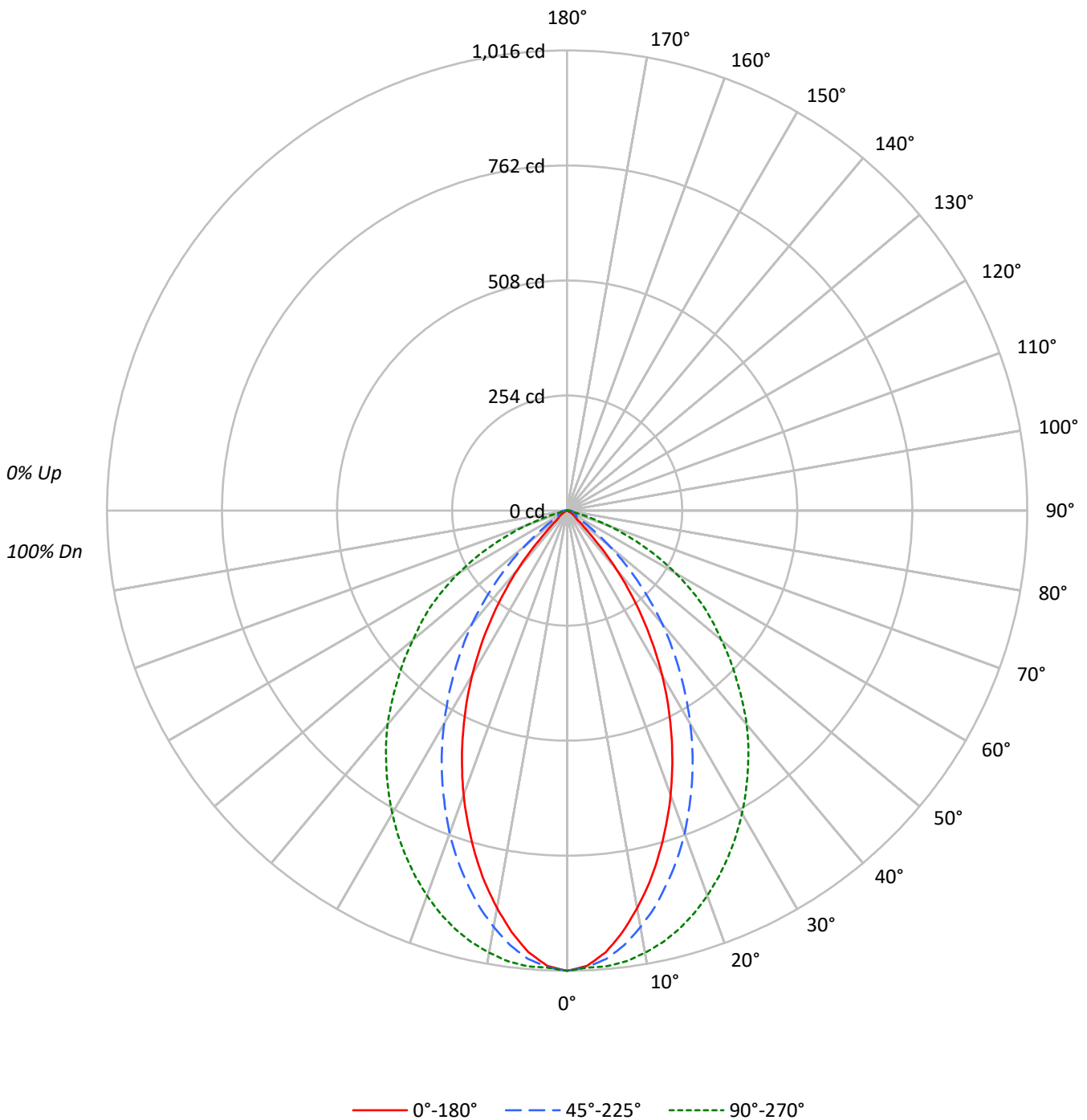
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1307.0 lumens  
Efficiency: N/A  
Efficacy: 31.3 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																												
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81																												
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72																												
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65																												
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59																												
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54																												
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49																												
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45																												
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42																												
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39																												

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

	0°	45°	90°
0°	6996	6996	6996
5°	6764	6867	6980
10°	6229	6527	6929
15°	5593	6075	6815
20°	4897	5557	6630
25°	4136	4962	6398
30°	3333	4318	6138
35°	2451	3640	5848
40°	1530	2935	5545
45°	573	2144	5154
50°	268	1340	4758
55°	196	556	4402
60°	138	293	3809
65°	81	347	3017
70°	76	403	1914
75°	101	399	599
80°	151	496	448
85°	300	790	592

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5154 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.2	7.1
10°-20°	241.2	18.5
20°-30°	307.3	23.5
30°-40°	286.0	21.9
40°-50°	196.0	15.0
50°-60°	107.9	8.3
60°-70°	51.1	3.9
70°-80°	16.1	1.2
80°-90°	8.2	0.6
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°	641.7	49.1
0°-40°	927.7	71.0
0°-60°	1231.6	94.2
0°-90°	1307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1307.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	979	991	994	1001	1010	91
15°	785	810	852	916	956	219
25°	544	578	653	758	842	249
35°	292	333	433	576	696	181
45°	59	99	220	390	529	56
55°	16	19	46	218	367	15
65°	5	6	21	80	185	6
75°	4	6	15	16	22	4
85°	4	9	10	9	8	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1016.1	1016.1	1016.1	1016.1	1016.1
2.5°	1006.1	1016.1	1008.6	1008.6	1009.9
5°	978.6	991.1	993.6	1001.1	1009.9
7.5°	938.6	954.8	967.3	988.6	1003.6
10°	891.0	911.0	933.5	968.6	991.1
12.5°	840.9	862.2	896.0	944.8	976.1
15°	784.6	809.7	852.2	916.0	956.1
17.5°	727.1	754.6	807.2	882.2	932.3
20°	668.3	697.0	758.4	842.2	904.8
22.5°	606.9	638.2	705.8	800.9	874.7
25°	544.4	578.1	653.2	758.4	842.2
27.5°	481.8	516.8	599.4	714.6	808.4
30°	419.2	455.5	543.1	669.5	772.1
32.5°	355.4	395.4	488.0	624.5	734.6
35°	291.6	332.9	433.0	575.6	695.8
37.5°	229.0	271.6	379.2	529.3	657.0
40°	170.2	212.7	326.6	483.0	616.9
42.5°	110.1	155.2	271.6	435.5	573.1
45°	58.8	98.9	220.2	390.4	529.3
47.5°	31.3	52.6	171.4	345.4	488.0
50°	25.0	28.8	125.1	300.3	444.2
52.5°	20.0	22.5	80.1	254.0	405.5
55°	16.3	18.8	46.3	217.7	366.7
57.5°	12.5	15.0	26.3	181.5	321.6
60°	10.0	11.3	21.3	145.2	276.6
62.5°	6.3	8.8	21.3	112.6	231.5
65°	5.0	6.3	21.3	80.1	185.2
67.5°	5.0	5.0	21.3	52.6	138.9
70°	3.8	3.8	20.0	33.8	95.1
72.5°	3.8	3.8	17.5	22.5	55.1
75°	3.8	6.3	15.0	16.3	22.5
77.5°	3.8	10.0	13.8	13.8	12.5
80°	3.8	10.0	12.5	11.3	11.3
82.5°	3.8	10.0	10.0	10.0	8.8
85°	3.8	8.8	10.0	8.8	7.5
87.5°	3.8	8.8	8.8	8.8	5.0
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	0.00	0.00	0.00	0.00	0.00	15.81	17.09	16.17	17.40	17.72
	3H	0.00	0.00	0.00	0.00	0.00	16.59	17.73	16.97	18.06	18.42
	4H	0.00	0.00	0.00	0.00	0.07	16.62	17.68	17.02	18.03	18.41
	6H	0.00	0.48	0.00	0.86	1.25	16.57	17.55	16.99	17.92	18.31
	8H	0.20	1.11	0.63	1.51	1.91	16.55	17.47	16.98	17.86	18.27
	12H	0.95	1.83	1.38	2.21	2.64	16.53	17.41	16.97	17.79	18.22
4H	2H	0.00	0.64	0.00	1.00	1.38	15.59	16.65	15.99	17.00	17.38
	3H	0.46	1.33	0.88	1.73	2.13	16.42	17.28	16.83	17.68	18.09
	4H	1.07	1.84	1.50	2.26	2.70	16.45	17.22	16.89	17.64	18.09
	6H	2.57	3.23	3.03	3.68	4.14	16.44	17.10	16.90	17.55	18.02
	8H	3.31	3.93	3.78	4.38	4.85	16.42	17.04	16.89	17.49	17.96
	12H	4.06	4.60	4.55	5.09	5.56	16.42	16.97	16.91	17.45	17.93
8H	4H	3.10	3.72	3.57	4.17	4.64	16.34	16.96	16.81	17.40	17.88
	6H	4.85	5.35	5.35	5.85	6.33	16.34	16.84	16.84	17.34	17.82
	8H	5.80	6.25	6.32	6.77	7.26	16.34	16.80	16.87	17.31	17.81
	12H	6.74	7.14	7.26	7.64	8.21	16.39	16.79	16.91	17.29	17.86
12H	4H	3.41	3.95	3.89	4.44	4.91	16.29	16.84	16.78	17.32	17.80
	6H	5.30	5.76	5.83	6.27	6.77	16.29	16.75	16.82	17.26	17.76
	8H	6.44	6.84	6.95	7.33	7.90	16.33	16.73	16.85	17.23	17.80