

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: P1061561

Luminaire Tested: S125RDRP-S1270D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061561  
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-S1270D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

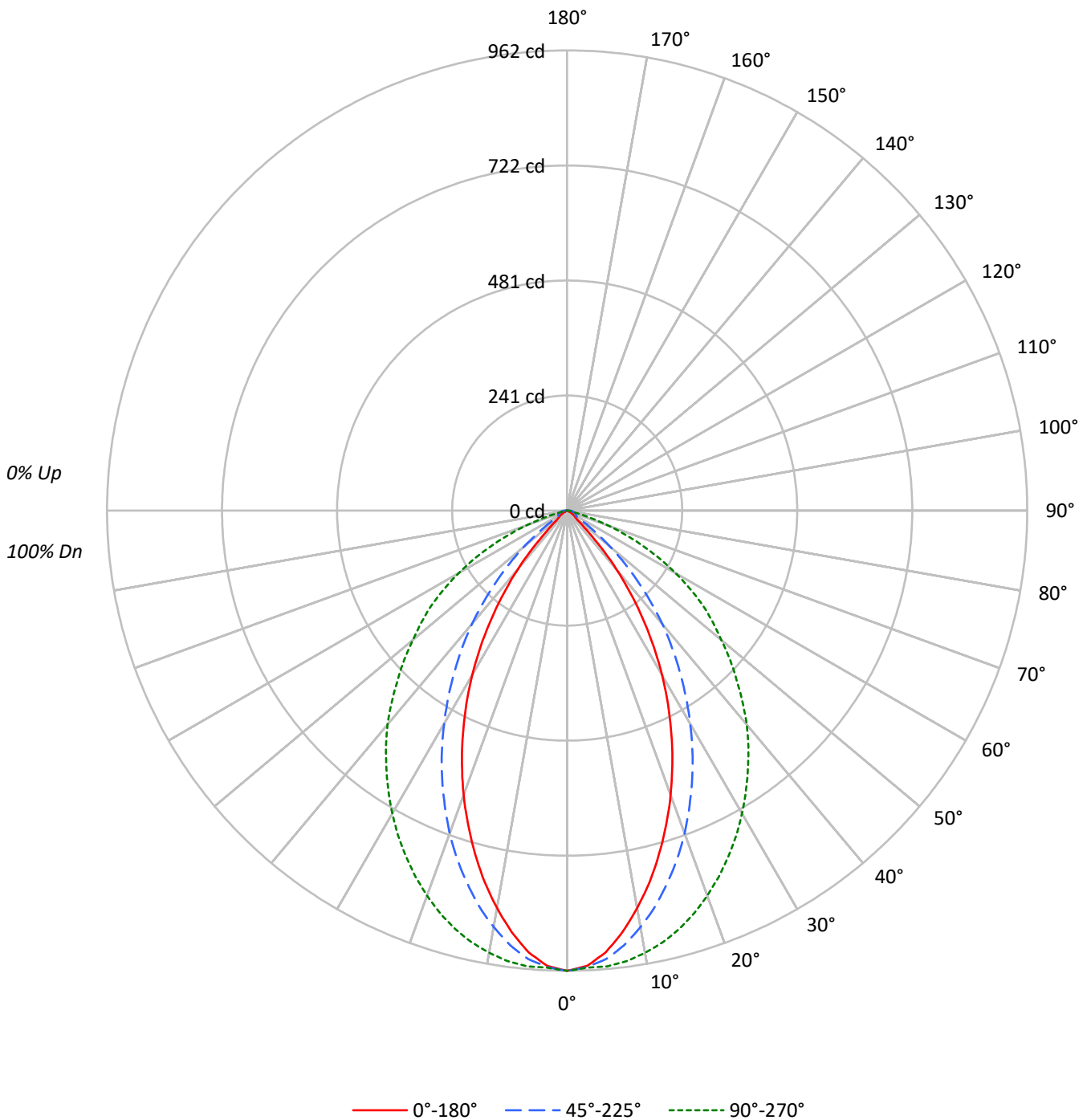
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1237.6 lumens  
Efficiency: N/A  
Efficacy: 29.6 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	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°	6625	6625	6625
5°	6405	6503	6610
10°	5899	6180	6561
15°	5296	5752	6453
20°	4637	5262	6277
25°	3916	4700	6059
30°	3156	4089	5813
35°	2321	3446	5538
40°	1449	2780	5251
45°	542	2031	4880
50°	254	1269	4506
55°	185	526	4168
60°	131	277	3606
65°	77	327	2858
70°	72	382	1814
75°	96	378	567
80°	143	468	424
85°	284	750	561

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4880 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	7.1
10°-20°	228.4	18.5
20°-30°	291.0	23.5
30°-40°	270.8	21.9
40°-50°	185.6	15.0
50°-60°	102.2	8.3
60°-70°	48.4	3.9
70°-80°	15.2	1.2
80°-90°	7.8	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°	607.6	49.1
0°-40°	878.5	71.0
0°-60°	1166.2	94.2
0°-90°	1237.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1237.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	927	938	941	948	956	86
15°	743	767	807	867	905	207
25°	516	548	619	718	798	235
35°	276	315	410	545	659	171
45°	56	94	209	370	501	53
55°	15	18	44	206	347	14
65°	5	6	20	76	175	5
75°	4	6	14	15	21	4
85°	4	8	10	8	7	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	962.2	962.2	962.2	962.2	962.2
2.5°	952.7	962.2	955.1	955.1	956.3
5°	926.7	938.5	940.9	948.0	956.3
7.5°	888.7	904.1	916.0	936.1	950.4
10°	843.7	862.7	884.0	917.2	938.5
12.5°	796.3	816.5	848.4	894.7	924.3
15°	743.0	766.7	807.0	867.4	905.3
17.5°	688.5	714.5	764.3	835.4	882.8
20°	632.8	660.0	718.1	797.5	856.7
22.5°	574.7	604.3	668.3	758.4	828.3
25°	515.5	547.5	618.6	718.1	797.5
27.5°	456.2	489.4	567.6	676.6	765.5
30°	397.0	431.3	514.3	634.0	731.1
32.5°	336.5	374.5	462.1	591.3	695.6
35°	276.1	315.2	410.0	545.1	658.9
37.5°	216.9	257.1	359.1	501.2	622.1
40°	161.2	201.4	309.3	457.4	584.2
42.5°	104.3	146.9	257.1	412.4	542.7
45°	55.7	93.6	208.6	369.7	501.2
47.5°	29.6	49.8	162.3	327.1	462.1
50°	23.7	27.3	118.5	284.4	420.7
52.5°	19.0	21.3	75.8	240.6	383.9
55°	15.4	17.8	43.8	206.2	347.2
57.5°	11.8	14.2	24.9	171.8	304.5
60°	9.5	10.7	20.1	137.5	261.9
62.5°	5.9	8.3	20.1	106.6	219.2
65°	4.7	5.9	20.1	75.8	175.4
67.5°	4.7	4.7	20.1	49.8	131.5
70°	3.6	3.6	19.0	32.0	90.1
72.5°	3.6	3.6	16.6	21.3	52.1
75°	3.6	5.9	14.2	15.4	21.3
77.5°	3.6	9.5	13.0	13.0	11.8
80°	3.6	9.5	11.8	10.7	10.7
82.5°	3.6	9.5	9.5	9.5	8.3
85°	3.6	8.3	9.5	8.3	7.1
87.5°	3.6	8.3	8.3	8.3	4.7
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	0.00	0.00	0.00	0.00	0.00	15.61	16.90	15.98	17.21	17.53
	3H	0.00	0.00	0.00	0.00	0.00	16.40	17.54	16.78	17.87	18.23
	4H	0.00	0.00	0.00	0.00	0.00	16.43	17.49	16.83	17.84	18.22
	6H	0.00	0.29	0.00	0.66	1.06	16.38	17.35	16.80	17.73	18.12
	8H	0.01	0.92	0.44	1.32	1.72	16.36	17.28	16.79	17.67	18.08
	12H	0.76	1.64	1.19	2.02	2.45	16.34	17.22	16.77	17.60	18.03
4H	2H	0.00	0.44	0.00	0.79	1.18	15.40	16.45	15.80	16.81	17.19
	3H	0.26	1.13	0.68	1.53	1.93	16.22	17.09	16.64	17.49	17.90
	4H	0.86	1.63	1.30	2.05	2.50	16.26	17.03	16.70	17.45	17.89
	6H	2.37	3.04	2.84	3.48	3.95	16.25	16.91	16.71	17.36	17.83
	8H	3.12	3.74	3.59	4.19	4.66	16.23	16.85	16.70	17.30	17.77
	12H	3.87	4.42	4.36	4.90	5.37	16.23	16.78	16.72	17.26	17.74
8H	4H	2.90	3.52	3.37	3.97	4.44	16.15	16.76	16.62	17.21	17.68
	6H	4.65	5.16	5.16	5.66	6.14	16.15	16.65	16.65	17.15	17.63
	8H	5.61	6.07	6.14	6.58	7.07	16.15	16.61	16.68	17.12	17.62
	12H	6.55	6.95	7.07	7.45	8.02	16.20	16.60	16.71	17.10	17.67
12H	4H	3.20	3.75	3.69	4.23	4.71	16.10	16.65	16.59	17.13	17.61
	6H	5.11	5.57	5.63	6.08	6.57	16.10	16.56	16.62	17.07	17.56
	8H	6.25	6.65	6.77	7.15	7.72	16.14	16.54	16.66	17.04	17.61