

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: P1061681

Luminaire Tested: S125RDRP-S610D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061681
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-S610D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

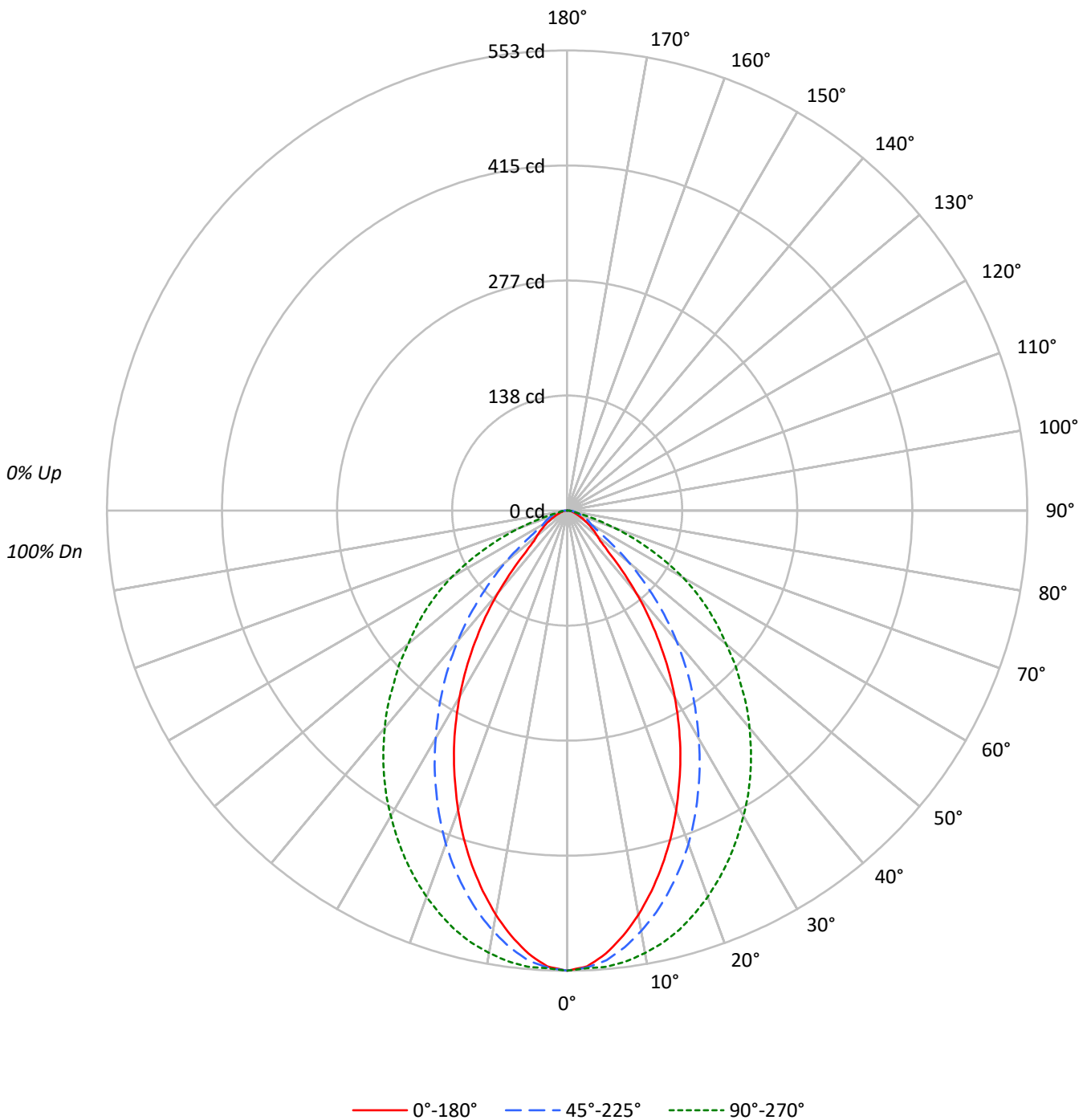
Lumens per Lamp: N/A
Luminaire Lumens: 798.3 lumens
Efficiency: N/A
Efficacy: 40.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): 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°	3807	3807	3807
5°	3694	3749	3803
10°	3448	3586	3774
15°	3146	3375	3717
20°	2806	3124	3619
25°	2446	2830	3503
30°	2054	2513	3369
35°	1621	2189	3230
40°	1161	1839	3065
45°	684	1443	2873
50°	506	1040	2669
55°	425	630	2480
60°	343	460	2213
65°	267	438	1774
70°	223	409	1202
75°	210	367	524
80°	206	365	337
85°	261	466	363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2873 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	6.4
10°-20°	133.8	16.8
20°-30°	174.9	21.9
30°-40°	170.3	21.3
40°-50°	127.2	15.9
50°-60°	78.9	9.9
60°-70°	41.4	5.2
70°-80°	15.1	1.9
80°-90°	5.7	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°	359.7	45.1
0°-40°	529.9	66.4
0°-60°	736.1	92.2
0°-90°	798.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	798.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	553	553	553	553	553	
5°	534	542	542	546	550	50
15°	441	454	474	502	521	123
25°	322	338	372	423	461	147
35°	193	214	260	330	384	120
45°	70	92	148	232	295	59
55°	35	37	52	136	207	32
65°	16	18	27	58	109	17
75°	8	9	14	15	20	9
85°	3	6	6	6	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	552.9	552.9	552.9	552.9	552.9
2.5°	548.3	552.9	549.6	549.6	550.3
5°	534.5	541.7	542.4	545.7	550.3
7.5°	515.5	524.0	529.3	539.1	546.3
10°	493.2	503.0	512.9	529.3	539.8
12.5°	468.3	480.1	494.5	516.8	531.9
15°	441.4	454.5	473.5	502.4	521.4
17.5°	413.2	427.0	450.6	485.3	508.3
20°	383.0	398.1	426.3	465.7	493.9
22.5°	352.2	369.2	400.1	444.7	478.1
25°	322.0	338.4	372.5	423.0	461.1
27.5°	290.5	307.6	345.0	400.7	442.7
30°	258.4	276.8	316.1	377.8	423.7
32.5°	226.3	245.3	287.9	354.2	404.7
35°	192.8	213.8	260.4	329.9	384.3
37.5°	161.3	183.6	232.2	305.0	362.7
40°	129.2	152.2	204.6	280.7	341.0
42.5°	97.7	121.3	176.4	255.8	319.4
45°	70.2	91.8	148.2	231.5	295.1
47.5°	53.8	66.2	122.0	206.6	273.5
50°	47.2	51.2	97.1	182.3	249.2
52.5°	41.3	43.9	72.1	158.7	228.2
55°	35.4	37.4	52.5	136.4	206.6
57.5°	30.2	32.1	40.0	116.1	184.3
60°	24.9	26.9	33.4	95.8	160.7
62.5°	21.0	21.6	30.2	76.7	134.4
65°	16.4	17.7	26.9	57.7	108.9
67.5°	13.8	14.4	23.6	41.3	83.9
70°	11.1	11.8	20.3	28.9	59.7
72.5°	9.8	9.8	17.1	21.0	38.0
75°	7.9	9.2	13.8	15.1	19.7
77.5°	6.6	9.2	11.8	11.1	10.5
80°	5.2	8.5	9.2	9.2	8.5
82.5°	4.6	7.2	7.9	7.2	6.6
85°	3.3	5.9	5.9	5.9	4.6
87.5°	2.6	5.2	4.6	4.6	3.3
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	4.43	5.78	4.79	6.09	6.40	14.14	15.49	14.50	15.80	16.11
	3H	5.26	6.46	5.64	6.79	7.16	15.05	16.25	15.43	16.58	16.94
	4H	5.63	6.74	6.03	7.09	7.48	15.15	16.26	15.55	16.61	17.00
	6H	6.00	7.03	6.41	7.40	7.79	15.13	16.16	15.55	16.53	16.92
	8H	6.18	7.15	6.61	7.54	7.95	15.12	16.09	15.55	16.48	16.89
	12H	6.34	7.27	6.78	7.66	8.09	15.11	16.04	15.54	16.42	16.85
4H	2H	5.26	6.37	5.66	6.73	7.11	13.99	15.10	14.39	15.45	15.84
	3H	6.31	7.23	6.73	7.63	8.04	14.98	15.89	15.39	16.29	16.70
	4H	6.77	7.59	7.21	8.01	8.45	15.10	15.92	15.54	16.34	16.78
	6H	7.33	8.03	7.79	8.48	8.95	15.14	15.84	15.60	16.29	16.75
	8H	7.59	8.25	8.06	8.69	9.16	15.14	15.80	15.61	16.24	16.71
	12H	7.83	8.41	8.32	8.90	9.37	15.15	15.73	15.63	16.21	16.69
8H	4H	7.33	7.99	7.80	8.43	8.90	15.03	15.69	15.50	16.14	16.61
	6H	8.11	8.64	8.61	9.14	9.62	15.09	15.63	15.59	16.12	16.61
	8H	8.52	9.01	9.04	9.52	10.01	15.12	15.60	15.64	16.12	16.61
	12H	8.94	9.37	9.45	9.86	10.43	15.17	15.60	15.69	16.09	16.67
12H	4H	7.39	7.97	7.87	8.45	8.93	15.00	15.58	15.48	16.06	16.54
	6H	8.25	8.73	8.77	9.25	9.74	15.06	15.54	15.58	16.05	16.55
	8H	8.78	9.20	9.29	9.70	10.27	15.12	15.55	15.64	16.04	16.61