

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: P1061709

Luminaire Tested: S125RDRP-S610D850-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D850-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

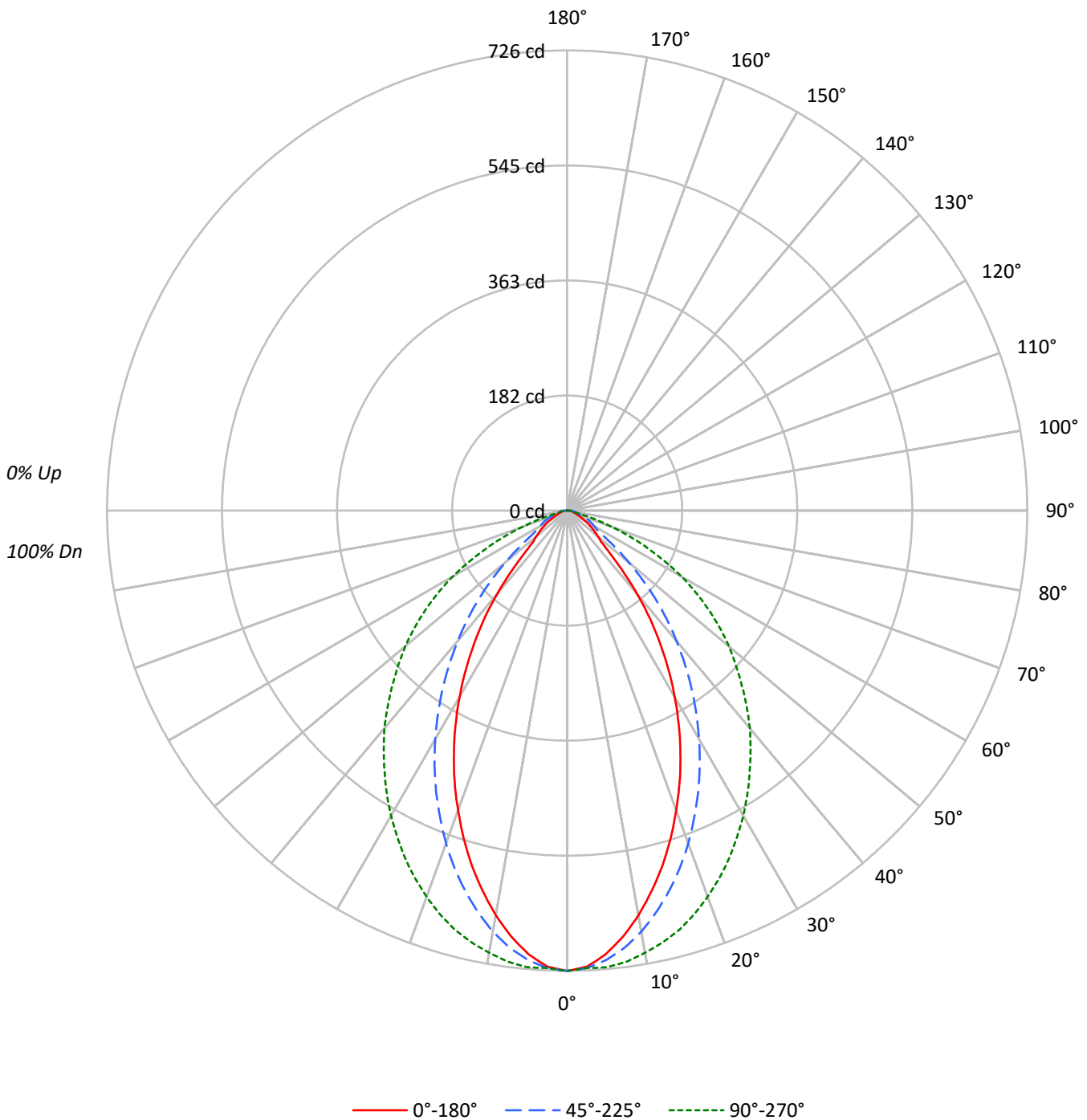
Lumens per Lamp: N/A
Luminaire Lumens: 1052.0 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061709

CATALOG NUMBER: S125RDRP-S610D850-X4F0-XX-UDD-SVL-W

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	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	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	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	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5001	5001	5001
5°	4854	4918	4998
10°	4533	4716	4953
15°	4137	4429	4880
20°	3687	4094	4750
25°	3213	3717	4597
30°	2700	3307	4418
35°	2148	2874	4223
40°	1547	2414	4030
45°	917	1916	3796
50°	678	1364	3571
55°	575	843	3270
60°	468	680	2881
65°	365	629	2276
70°	310	544	1522
75°	287	474	617
80°	305	488	428
85°	363	735	490

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3796 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	6.4
10°-20°	175.8	16.7
20°-30°	229.8	21.8
30°-40°	223.8	21.3
40°-50°	167.9	16.0
50°-60°	105.3	10.0
60°-70°	54.8	5.2
70°-80°	19.8	1.9
80°-90°	7.8	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°	472.5	44.9
0°-40°	696.4	66.2
0°-60°	969.5	92.2
0°-90°	1052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	702	712	712	717	723	65
15°	580	597	621	660	685	162
25°	423	446	489	556	605	193
35°	256	282	342	433	502	159
45°	94	122	197	304	390	79
55°	48	50	70	184	272	43
65°	22	24	39	74	140	23
75°	11	15	18	18	23	12
85°	5	8	9	8	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	726.3	726.3	726.3	726.3	726.3
2.5°	720.1	727.0	722.4	722.4	722.4
5°	702.3	711.6	711.6	717.0	723.2
7.5°	677.6	688.4	695.4	708.5	717.8
10°	648.3	661.4	674.6	696.2	708.5
12.5°	615.1	630.6	649.1	679.2	697.7
15°	580.4	597.4	621.3	659.9	684.6
17.5°	542.6	562.6	591.2	637.5	667.6
20°	503.2	523.3	558.8	611.3	648.3
22.5°	463.9	485.5	524.1	583.5	627.5
25°	422.9	446.1	489.3	555.7	605.1
27.5°	381.3	405.2	453.0	527.1	580.4
30°	339.6	364.3	416.0	496.3	555.7
32.5°	297.9	324.2	379.0	464.6	529.5
35°	255.5	282.5	341.9	433.0	502.4
37.5°	214.6	241.6	304.9	400.6	475.4
40°	172.1	201.4	268.6	368.1	448.4
42.5°	130.4	160.5	232.3	335.7	419.1
45°	94.2	121.9	196.8	304.1	389.8
47.5°	72.5	88.0	160.5	271.7	361.2
50°	63.3	67.9	127.3	241.6	333.4
52.5°	54.8	57.9	95.7	213.8	303.3
55°	47.9	50.2	70.2	183.7	272.4
57.5°	40.1	43.2	55.6	154.4	240.8
60°	34.0	35.5	49.4	127.3	209.2
62.5°	27.8	29.3	44.0	100.3	173.7
65°	22.4	23.9	38.6	74.1	139.7
67.5°	18.5	19.3	32.4	52.5	107.3
70°	15.4	16.2	27.0	36.3	75.6
72.5°	13.1	15.4	21.6	26.2	47.9
75°	10.8	14.7	17.8	18.5	23.2
77.5°	9.3	13.9	14.7	14.7	13.1
80°	7.7	11.6	12.3	11.6	10.8
82.5°	6.2	9.3	10.0	10.0	8.5
85°	4.6	7.7	9.3	8.5	6.2
87.5°	3.1	6.9	7.7	6.9	4.6
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	5.51	6.86	5.87	7.17	7.49	15.12	16.48	15.49	16.79	17.10
	3H	6.36	7.56	6.74	7.89	8.26	15.96	17.16	16.34	17.49	17.86
	4H	6.79	7.91	7.19	8.26	8.64	16.04	17.16	16.44	17.51	17.89
	6H	7.22	8.25	7.63	8.62	9.01	16.02	17.05	16.44	17.42	17.81
	8H	7.40	8.37	7.83	8.76	9.17	16.01	16.98	16.44	17.38	17.78
	12H	7.56	8.49	7.99	8.87	9.30	16.00	16.93	16.43	17.31	17.74
4H	2H	6.47	7.59	6.87	7.94	8.32	14.99	16.11	15.39	16.46	16.84
	3H	7.52	8.44	7.93	8.84	9.25	15.90	16.81	16.31	17.22	17.62
	4H	8.09	8.91	8.52	9.32	9.77	16.00	16.82	16.43	17.24	17.68
	6H	8.69	9.40	9.15	9.84	10.31	16.03	16.73	16.49	17.18	17.65
	8H	8.93	9.59	9.40	10.04	10.51	16.03	16.69	16.50	17.14	17.61
	12H	9.15	9.74	9.64	10.22	10.69	16.04	16.63	16.53	17.11	17.58
8H	4H	8.56	9.22	9.03	9.67	10.14	15.92	16.58	16.39	17.03	17.50
	6H	9.37	9.91	9.87	10.41	10.89	15.98	16.52	16.48	17.02	17.50
	8H	9.76	10.24	10.28	10.76	11.25	16.01	16.50	16.53	17.01	17.50
	12H	10.15	10.58	10.66	11.07	11.64	16.08	16.51	16.59	17.00	17.57
12H	4H	8.61	9.20	9.10	9.68	10.15	15.89	16.48	16.38	16.96	17.43
	6H	9.50	9.98	10.02	10.50	10.99	15.95	16.43	16.47	16.95	17.44
	8H	9.99	10.42	10.50	10.91	11.48	16.02	16.45	16.53	16.94	17.51