

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: P1061708

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061708
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-S610D850-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: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

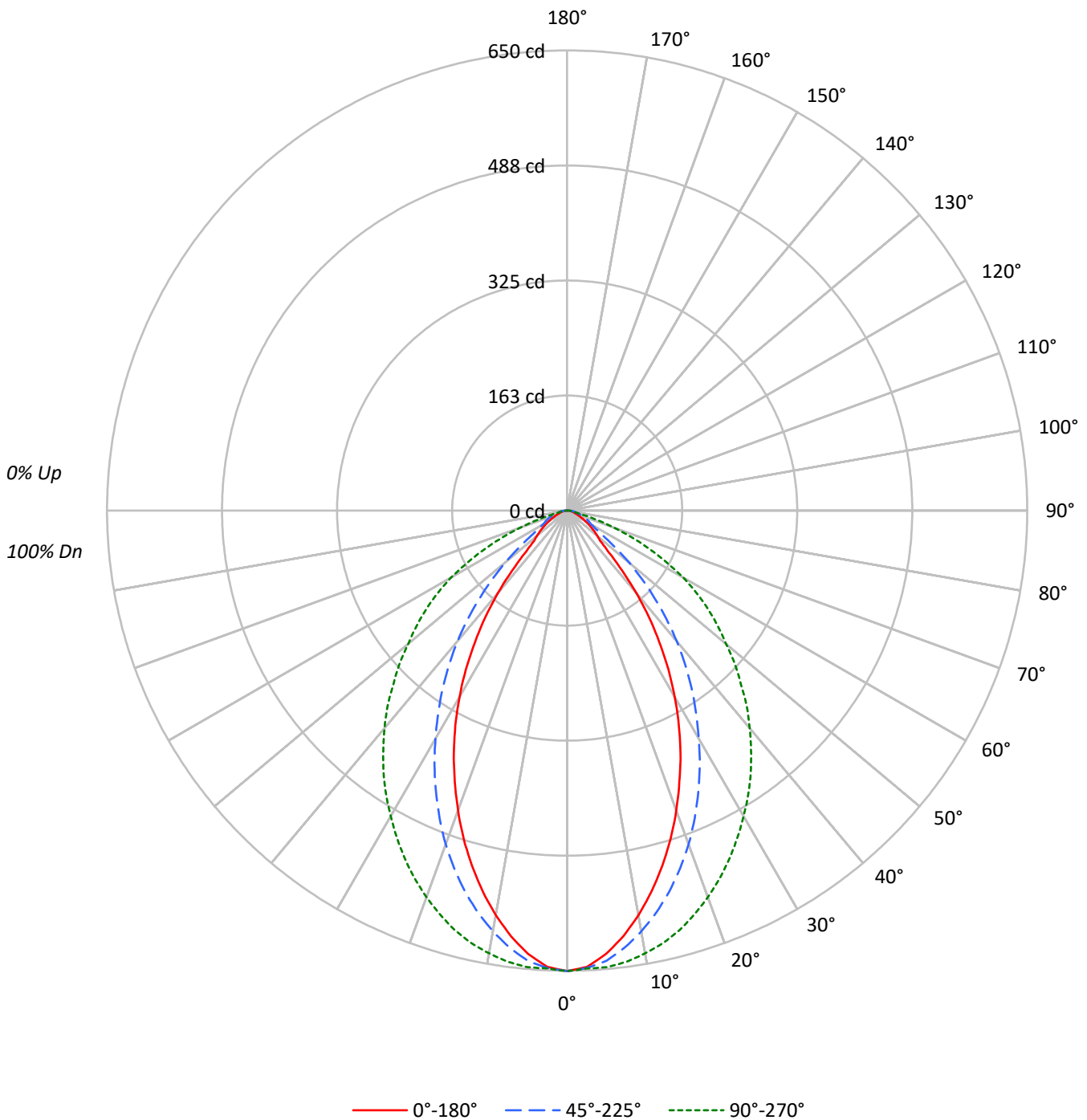
Lumens per Lamp: N/A
Luminaire Lumens: 939.3 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	4479	4479	4479
5°	4347	4411	4475
10°	4057	4219	4440
15°	3702	3972	4373
20°	3302	3675	4258
25°	2879	3330	4121
30°	2417	2957	3963
35°	1907	2575	3801
40°	1366	2164	3607
45°	804	1698	3382
50°	596	1223	3141
55°	501	741	2918
60°	403	543	2604
65°	314	515	2087
70°	264	481	1413
75°	247	431	617
80°	246	428	397
85°	308	545	427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3382 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	6.4
10°-20°	157.5	16.8
20°-30°	205.8	21.9
30°-40°	200.3	21.3
40°-50°	149.7	15.9
50°-60°	92.8	9.9
60°-70°	48.8	5.2
70°-80°	17.8	1.9
80°-90°	6.7	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°	423.2	45.1
0°-40°	623.5	66.4
0°-60°	866.1	92.2
0°-90°	939.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	939.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	629	637	638	642	647	58
15°	519	535	557	591	614	145
25°	379	398	438	498	542	173
35°	227	252	306	388	452	141
45°	83	108	174	272	347	70
55°	42	44	62	160	243	38
65°	19	21	32	68	128	20
75°	9	11	16	18	23	10
85°	4	7	7	7	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	650.5	650.5	650.5	650.5	650.5
2.5°	645.1	650.5	646.7	646.7	647.4
5°	628.9	637.4	638.2	642.0	647.4
7.5°	606.5	616.6	622.7	634.3	642.8
10°	580.3	591.9	603.5	622.7	635.1
12.5°	551.0	564.9	581.8	608.1	625.8
15°	519.3	534.8	557.2	591.1	613.5
17.5°	486.2	502.4	530.1	571.0	598.0
20°	450.7	468.4	501.6	547.9	581.1
22.5°	414.4	434.5	470.7	523.2	562.6
25°	378.9	398.2	438.3	497.7	542.5
27.5°	341.9	361.9	405.9	471.5	520.9
30°	304.0	325.6	371.9	444.5	498.5
32.5°	266.2	288.6	338.8	416.7	476.1
35°	226.9	251.6	306.4	388.2	452.2
37.5°	189.8	216.1	273.2	358.8	426.7
40°	152.0	179.0	240.8	330.3	401.3
42.5°	115.0	142.8	207.6	301.0	375.8
45°	82.6	108.0	174.4	272.4	347.3
47.5°	63.3	77.9	143.5	243.1	321.8
50°	55.6	60.2	114.2	214.5	293.2
52.5°	48.6	51.7	84.9	186.7	268.5
55°	41.7	44.0	61.7	160.5	243.1
57.5°	35.5	37.8	47.1	136.6	216.8
60°	29.3	31.6	39.4	112.7	189.1
62.5°	24.7	25.5	35.5	90.3	158.2
65°	19.3	20.8	31.6	67.9	128.1
67.5°	16.2	17.0	27.8	48.6	98.8
70°	13.1	13.9	23.9	34.0	70.2
72.5°	11.6	11.6	20.1	24.7	44.8
75°	9.3	10.8	16.2	17.7	23.2
77.5°	7.7	10.8	13.9	13.1	12.3
80°	6.2	10.0	10.8	10.8	10.0
82.5°	5.4	8.5	9.3	8.5	7.7
85°	3.9	6.9	6.9	6.9	5.4
87.5°	3.1	6.2	5.4	5.4	3.9
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	4.99	6.34	5.36	6.66	6.97	14.70	16.05	15.07	16.36	16.68
	3H	5.83	7.03	6.21	7.36	7.73	15.61	16.81	15.99	17.14	17.50
	4H	6.20	7.31	6.60	7.66	8.05	15.71	16.83	16.11	17.18	17.56
	6H	6.57	7.60	6.98	7.97	8.36	15.70	16.72	16.11	17.09	17.49
	8H	6.75	7.72	7.18	8.11	8.52	15.68	16.66	16.11	17.05	17.45
	12H	6.91	7.84	7.35	8.23	8.66	15.67	16.60	16.10	16.98	17.41
4H	2H	5.82	6.94	6.22	7.29	7.67	14.55	15.67	14.95	16.02	16.40
	3H	6.88	7.80	7.29	8.20	8.60	15.54	16.46	15.95	16.86	17.26
	4H	7.34	8.16	7.77	8.57	9.02	15.67	16.49	16.10	16.91	17.35
	6H	7.89	8.60	8.36	9.05	9.51	15.70	16.41	16.16	16.85	17.32
	8H	8.16	8.81	8.62	9.26	9.73	15.70	16.36	16.17	16.81	17.28
	12H	8.40	8.98	8.88	9.46	9.94	15.71	16.29	16.20	16.78	17.25
8H	4H	7.89	8.55	8.36	9.00	9.47	15.59	16.25	16.06	16.70	17.17
	6H	8.67	9.21	9.17	9.71	10.19	15.65	16.19	16.16	16.69	17.17
	8H	9.09	9.57	9.61	10.09	10.58	15.68	16.17	16.20	16.68	17.17
	12H	9.50	9.93	10.02	10.43	11.00	15.74	16.16	16.25	16.66	17.23
12H	4H	7.95	8.54	8.44	9.02	9.49	15.56	16.14	16.05	16.63	17.10
	6H	8.81	9.30	9.34	9.81	10.31	15.62	16.10	16.14	16.62	17.11
	8H	9.34	9.77	9.86	10.27	10.84	15.68	16.11	16.20	16.61	17.18