

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: P1061707

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
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-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

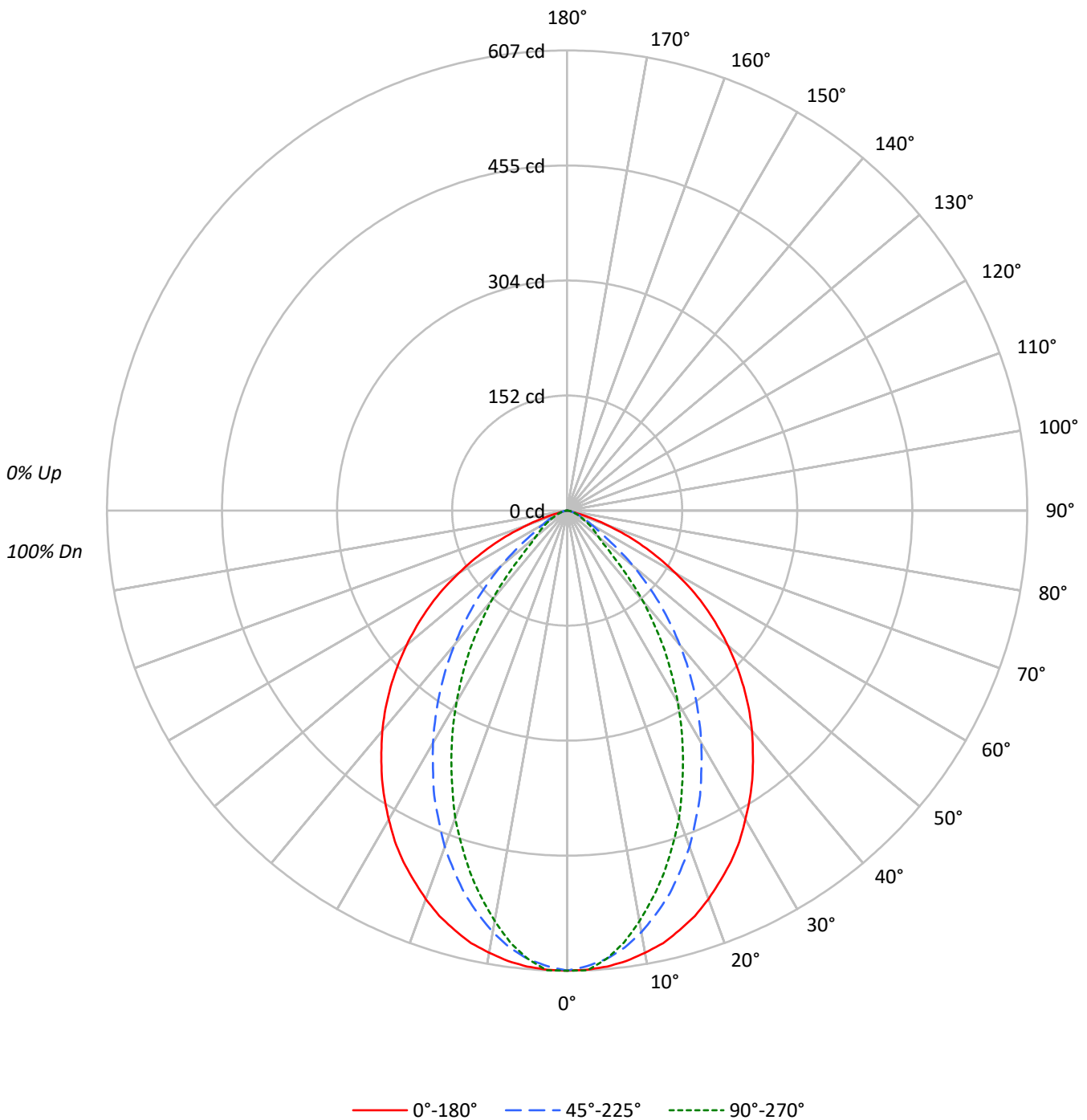
Lumens per Lamp: N/A
Luminaire Lumens: 877.7 lumens
Efficiency: N/A
Efficacy: 44.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4179	4179	4179
5°	4173	4104	4104
10°	4140	3947	3844
15°	4084	3727	3523
20°	3995	3458	3164
25°	3884	3152	2748
30°	3740	2814	2318
35°	3584	2463	1879
40°	3410	2079	1393
45°	3206	1667	841
50°	2965	1222	578
55°	2676	750	481
60°	2272	510	383
65°	1797	389	301
70°	1133	280	248
75°	370	205	205
80°	123	155	182
85°	63	118	118

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3206 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	6.4
10°-20°	148.2	16.9
20°-30°	195.0	22.2
30°-40°	191.6	21.8
40°-50°	144.9	16.5
50°-60°	87.9	10.0
60°-70°	41.5	4.7
70°-80°	10.8	1.2
80°-90°	1.6	0.2
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°	399.3	45.5
0°-40°	590.9	67.3
0°-60°	823.7	93.9
0°-90°	877.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	604	602	594	595	594	57
15°	573	558	523	503	494	161
25°	511	473	415	376	362	235
35°	426	369	293	241	224	266
45°	329	259	171	109	86	254
55°	223	153	62	42	40	198
65°	110	56	24	20	18	109
75°	14	9	8	8	8	21
85°	1	1	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	606.9	606.9	606.9	606.9	606.9
2.5°	606.1	606.1	601.5	606.9	606.9
5°	603.8	602.3	593.8	594.6	593.8
7.5°	599.2	596.1	581.4	577.6	574.5
10°	592.2	586.1	564.5	555.2	549.8
12.5°	584.5	573.7	544.4	531.3	522.8
15°	573.0	557.5	522.8	502.8	494.3
17.5°	560.6	538.3	497.4	473.5	462.7
20°	545.2	519.0	471.9	442.6	431.8
22.5°	528.2	497.4	442.6	410.3	395.6
25°	511.3	472.7	414.9	376.3	361.7
27.5°	492.0	448.0	383.3	343.2	327.0
30°	470.4	423.4	354.0	312.3	291.5
32.5°	448.8	397.9	323.1	277.6	256.8
35°	426.4	369.4	293.0	241.4	223.6
37.5°	402.5	342.4	262.2	208.2	187.4
40°	379.4	315.4	231.3	174.3	155.0
42.5°	354.7	288.4	200.5	141.1	119.5
45°	329.3	259.1	171.2	108.7	86.4
47.5°	303.1	232.9	141.9	80.2	64.8
50°	276.8	205.1	114.1	59.4	54.0
52.5°	249.9	178.1	86.4	49.4	47.0
55°	222.9	152.7	62.5	42.4	40.1
57.5°	195.1	124.9	47.0	36.2	33.9
60°	165.0	100.2	37.0	30.1	27.8
62.5°	137.3	78.7	30.1	24.7	23.1
65°	110.3	56.3	23.9	20.0	18.5
67.5°	82.5	37.8	18.5	15.4	15.4
70°	56.3	24.7	13.9	12.3	12.3
72.5°	33.9	14.7	10.0	10.0	10.0
75°	13.9	9.3	7.7	7.7	7.7
77.5°	4.6	5.4	5.4	6.2	6.2
80°	3.1	3.1	3.9	4.6	4.6
82.5°	1.5	2.3	2.3	3.1	3.1
85°	0.8	0.8	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.8	0.8
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	14.30	15.63	14.66	15.94	16.26	4.95	6.28	5.31	6.59	6.91
	3H	15.00	16.18	15.38	16.51	16.87	5.72	6.90	6.10	7.23	7.60
	4H	15.02	16.12	15.42	16.47	16.85	5.97	7.07	6.38	7.42	7.80
	6H	14.95	15.96	15.36	16.33	16.72	6.15	7.16	6.57	7.53	7.92
	8H	14.91	15.86	15.34	16.25	16.66	6.20	7.15	6.63	7.54	7.95
	12H	14.87	15.78	15.30	16.16	16.59	6.21	7.12	6.64	7.50	7.93
4H	2H	14.13	15.22	14.53	15.57	15.96	5.43	6.53	5.84	6.88	7.26
	3H	14.87	15.77	15.29	16.17	16.57	6.34	7.23	6.75	7.64	8.04
	4H	14.89	15.69	15.33	16.11	16.55	6.65	7.45	7.09	7.87	8.31
	6H	14.83	15.52	15.29	15.96	16.43	6.91	7.60	7.38	8.04	8.51
	8H	14.78	15.42	15.25	15.86	16.34	6.98	7.62	7.45	8.06	8.54
	12H	14.74	15.30	15.22	15.78	16.26	7.00	7.57	7.49	8.05	8.52
8H	4H	14.77	15.41	15.24	15.86	16.33	6.77	7.40	7.24	7.85	8.32
	6H	14.70	15.22	15.20	15.72	16.20	7.09	7.60	7.59	8.10	8.58
	8H	14.65	15.11	15.17	15.63	16.12	7.19	7.66	7.71	8.17	8.67
	12H	14.61	15.02	15.12	15.51	16.08	7.25	7.66	7.77	8.16	8.73
12H	4H	14.73	15.29	15.22	15.78	16.25	6.74	7.30	7.22	7.78	8.26
	6H	14.64	15.11	15.16	15.62	16.12	7.06	7.52	7.58	8.04	8.53
	8H	14.61	15.02	15.12	15.51	16.09	7.20	7.61	7.71	8.10	8.67