

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: P1061732

Luminaire Tested: S125RDRP-S610D935-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061732  
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-S610D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

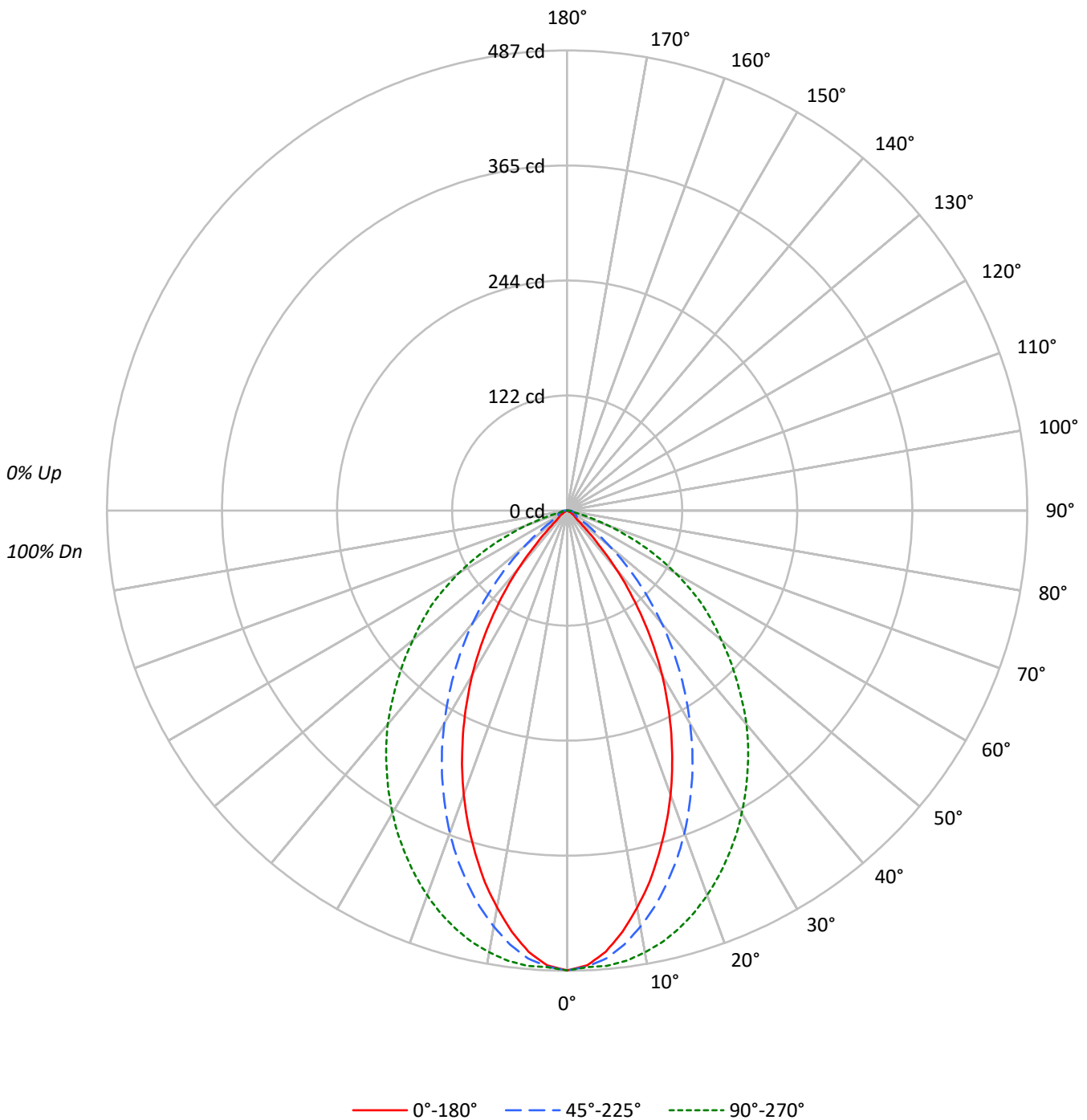
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 625.8 lumens  
Efficiency: N/A  
Efficacy: 31.9 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): 19.6  
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°	3350	3350	3350
5°	3239	3289	3342
10°	2983	3125	3318
15°	2678	2909	3263
20°	2345	2660	3174
25°	1981	2376	3064
30°	1596	2068	2939
35°	1173	1742	2801
40°	733	1406	2655
45°	275	1027	2468
50°	129	642	2278
55°	94	266	2108
60°	66	140	1823
65°	39	166	1445
70°	36	193	916
75°	48	192	287
80°	71	238	214
85°	142	379	284

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2468 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.6	7.1
10°-20°	115.5	18.5
20°-30°	147.1	23.5
30°-40°	137.0	21.9
40°-50°	93.8	15.0
50°-60°	51.7	8.3
60°-70°	24.5	3.9
70°-80°	7.7	1.2
80°-90°	3.9	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°	307.3	49.1
0°-40°	444.2	71.0
0°-60°	589.7	94.2
0°-90°	625.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	625.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	487	487	487	487	487	
5°	469	475	476	479	484	43
15°	376	388	408	439	458	105
25°	261	277	313	363	403	119
35°	140	159	207	276	333	87
45°	28	47	106	187	254	27
55°	8	9	22	104	176	7
65°	2	3	10	38	89	3
75°	2	3	7	8	11	2
85°	2	4	5	4	4	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	486.6	486.6	486.6	486.6	486.6
2.5°	481.8	486.6	483.0	483.0	483.6
5°	468.6	474.6	475.8	479.4	483.6
7.5°	449.4	457.2	463.2	473.4	480.6
10°	426.6	436.2	447.0	463.8	474.6
12.5°	402.7	412.9	429.0	452.4	467.4
15°	375.7	387.7	408.1	438.6	457.8
17.5°	348.1	361.3	386.5	422.4	446.4
20°	320.0	333.8	363.1	403.3	433.2
22.5°	290.6	305.6	338.0	383.5	418.8
25°	260.7	276.8	312.8	363.1	403.3
27.5°	230.7	247.5	287.0	342.1	387.1
30°	200.7	218.1	260.1	320.6	369.7
32.5°	170.2	189.3	233.7	299.0	351.7
35°	139.6	159.4	207.3	275.6	333.2
37.5°	109.7	130.0	181.6	253.5	314.6
40°	81.5	101.9	156.4	231.3	295.4
42.5°	52.7	74.3	130.0	208.5	274.4
45°	28.2	47.3	105.5	187.0	253.5
47.5°	15.0	25.2	82.1	165.4	233.7
50°	12.0	13.8	59.9	143.8	212.7
52.5°	9.6	10.8	38.3	121.6	194.1
55°	7.8	9.0	22.2	104.3	175.6
57.5°	6.0	7.2	12.6	86.9	154.0
60°	4.8	5.4	10.2	69.5	132.4
62.5°	3.0	4.2	10.2	53.9	110.9
65°	2.4	3.0	10.2	38.3	88.7
67.5°	2.4	2.4	10.2	25.2	66.5
70°	1.8	1.8	9.6	16.2	45.5
72.5°	1.8	1.8	8.4	10.8	26.4
75°	1.8	3.0	7.2	7.8	10.8
77.5°	1.8	4.8	6.6	6.6	6.0
80°	1.8	4.8	6.0	5.4	5.4
82.5°	1.8	4.8	4.8	4.8	4.2
85°	1.8	4.2	4.8	4.2	3.6
87.5°	1.8	4.2	4.2	4.2	2.4
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	13.25	14.53	13.61	14.84	15.16
	3H	0.00	0.00	0.00	0.00	0.00	14.03	15.17	14.41	15.50	15.87
	4H	0.00	0.00	0.00	0.00	0.00	14.06	15.12	14.46	15.47	15.85
	6H	0.00	0.00	0.00	0.00	0.00	14.02	14.99	14.43	15.36	15.75
	8H	0.00	0.00	0.00	0.00	0.00	13.99	14.91	14.42	15.30	15.71
	12H	0.00	0.00	0.00	0.00	0.06	13.97	14.85	14.41	15.23	15.67
4H	2H	0.00	0.00	0.00	0.00	0.00	13.03	14.09	13.43	14.44	14.82
	3H	0.00	0.00	0.00	0.00	0.00	13.86	14.72	14.27	15.12	15.53
	4H	0.00	0.00	0.00	0.00	0.14	13.89	14.66	14.33	15.08	15.53
	6H	0.00	0.67	0.47	1.11	1.58	13.88	14.54	14.34	14.99	15.46
	8H	0.74	1.36	1.21	1.81	2.28	13.86	14.48	14.33	14.93	15.40
	12H	1.49	2.03	1.97	2.52	2.99	13.87	14.41	14.35	14.90	15.37
8H	4H	0.55	1.17	1.02	1.61	2.08	13.78	14.40	14.25	14.85	15.32
	6H	2.29	2.80	2.79	3.29	3.78	13.78	14.28	14.28	14.78	15.26
	8H	3.24	3.70	3.77	4.21	4.71	13.79	14.24	14.31	14.76	15.25
	12H	4.18	4.58	4.69	5.07	5.65	13.83	14.23	14.35	14.73	15.30
12H	4H	0.85	1.39	1.33	1.88	2.35	13.74	14.28	14.22	14.77	15.24
	6H	2.75	3.20	3.27	3.72	4.21	13.73	14.19	14.26	14.70	15.20
	8H	3.88	4.28	4.40	4.78	5.35	13.77	14.18	14.29	14.67	15.24