

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: P1061734

Luminaire Tested: S125RDRP-S610D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061734  
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-S610D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

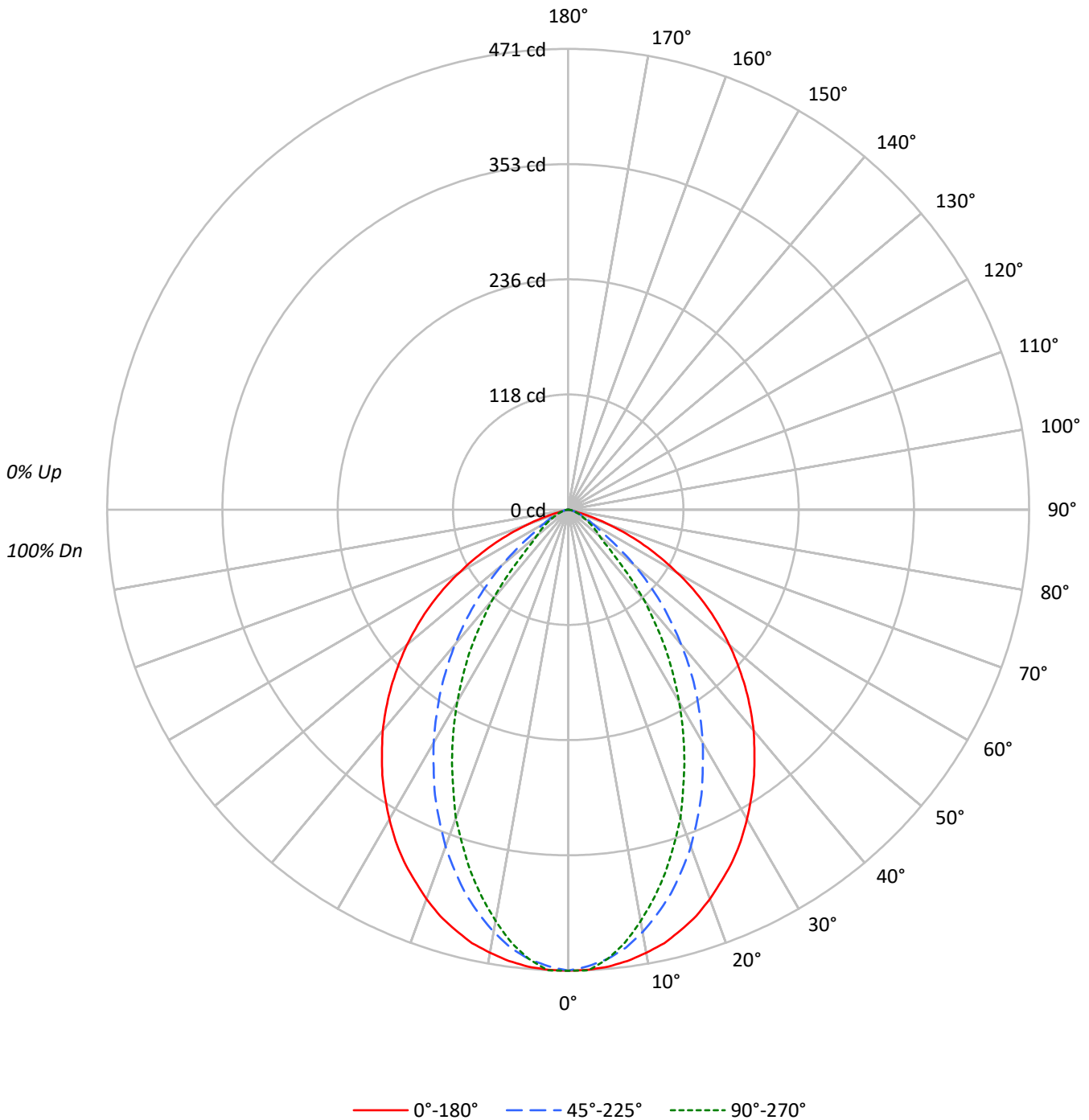
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 681.5 lumens  
Efficiency: N/A  
Efficacy: 34.8 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<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	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°	3244	3244	3244
5°	3240	3186	3186
10°	3215	3064	2985
15°	3171	2893	2736
20°	3102	2685	2457
25°	3015	2447	2133
30°	2903	2185	1799
35°	2783	1912	1459
40°	2648	1614	1081
45°	2489	1294	653
50°	2302	949	449
55°	2077	582	373
60°	1764	395	297
65°	1395	303	235
70°	880	217	193
75°	287	160	160
80°	95	119	143
85°	47	95	95

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2489 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.6	6.4
10°-20°	115.1	16.9
20°-30°	151.4	22.2
30°-40°	148.7	21.8
40°-50°	112.5	16.5
50°-60°	68.2	10.0
60°-70°	32.2	4.7
70°-80°	8.4	1.2
80°-90°	1.3	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°	310.0	45.5
0°-40°	458.8	67.3
0°-60°	639.5	93.8
0°-90°	681.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	681.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	469	468	461	462	461	44
15°	445	433	406	390	384	125
25°	397	367	322	292	281	182
35°	331	287	228	187	174	207
45°	256	201	133	84	67	197
55°	173	118	48	33	31	154
65°	86	44	19	16	14	84
75°	11	7	6	6	6	17
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	471.2	471.2	471.2	471.2	471.2
2.5°	470.6	470.6	467.0	471.2	471.2
5°	468.8	467.6	461.0	461.6	461.0
7.5°	465.2	462.8	451.4	448.4	446.0
10°	459.8	455.0	438.2	431.1	426.9
12.5°	453.8	445.4	422.7	412.5	405.9
15°	444.8	432.9	405.9	390.4	383.8
17.5°	435.3	417.9	386.2	367.6	359.2
20°	423.3	402.9	366.4	343.7	335.3
22.5°	410.1	386.2	343.7	318.5	307.1
25°	396.9	367.0	322.1	292.2	280.8
27.5°	382.0	347.8	297.6	266.4	253.8
30°	365.2	328.7	274.8	242.5	226.3
32.5°	348.4	308.9	250.9	215.5	199.4
35°	331.1	286.8	227.5	187.4	173.6
37.5°	312.5	265.8	203.6	161.6	145.5
40°	294.6	244.9	179.6	135.3	120.3
42.5°	275.4	223.9	155.7	109.6	92.8
45°	255.6	201.2	132.9	84.4	67.1
47.5°	235.3	180.8	110.2	62.3	50.3
50°	214.9	159.3	88.6	46.1	41.9
52.5°	194.0	138.3	67.1	38.3	36.5
55°	173.0	118.5	48.5	32.9	31.1
57.5°	151.5	97.0	36.5	28.1	26.3
60°	128.1	77.8	28.7	23.3	21.6
62.5°	106.6	61.1	23.3	19.2	18.0
65°	85.6	43.7	18.6	15.6	14.4
67.5°	64.1	29.3	14.4	12.0	12.0
70°	43.7	19.2	10.8	9.6	9.6
72.5°	26.3	11.4	7.8	7.8	7.8
75°	10.8	7.2	6.0	6.0	6.0
77.5°	3.6	4.2	4.2	4.8	4.8
80°	2.4	2.4	3.0	3.6	3.6
82.5°	1.2	1.8	1.8	2.4	2.4
85°	0.6	0.6	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.6	0.6
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	13.42	14.75	13.78	15.06	15.38	4.06	5.40	4.43	5.71	6.02
	3H	14.12	15.30	14.50	15.63	16.00	4.85	6.03	5.23	6.36	6.72
	4H	14.14	15.24	14.54	15.59	15.97	5.10	6.20	5.50	6.55	6.93
	6H	14.07	15.08	14.49	15.45	15.84	5.28	6.29	5.70	6.66	7.05
	8H	14.03	14.98	14.46	15.37	15.78	5.33	6.28	5.76	6.67	7.07
	12H	13.99	14.90	14.42	15.28	15.71	5.33	6.24	5.77	6.63	7.06
4H	2H	13.25	14.35	13.65	14.70	15.08	4.55	5.65	4.96	6.00	6.38
	3H	14.00	14.89	14.41	15.29	15.70	5.47	6.36	5.88	6.76	7.17
	4H	14.01	14.81	14.45	15.23	15.67	5.78	6.58	6.22	7.00	7.44
	6H	13.95	14.64	14.42	15.08	15.55	6.04	6.73	6.51	7.17	7.64
	8H	13.90	14.54	14.37	14.99	15.46	6.11	6.75	6.58	7.19	7.67
	12H	13.86	14.42	14.34	14.90	15.38	6.14	6.70	6.62	7.18	7.66
8H	4H	13.90	14.53	14.37	14.98	15.45	5.90	6.53	6.37	6.98	7.45
	6H	13.82	14.34	14.32	14.84	15.32	6.22	6.73	6.72	7.23	7.71
	8H	13.77	14.23	14.29	14.75	15.24	6.32	6.79	6.84	7.30	7.80
	12H	13.73	14.14	14.24	14.63	15.21	6.38	6.80	6.90	7.29	7.86
12H	4H	13.85	14.42	14.34	14.90	15.37	5.87	6.43	6.35	6.91	7.39
	6H	13.76	14.23	14.29	14.75	15.24	6.19	6.65	6.71	7.17	7.66
	8H	13.73	14.14	14.24	14.64	15.21	6.33	6.74	6.84	7.23	7.80