

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: P1061753

Luminaire Tested: S125RDRP-S610D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061753  
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-S610D950-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, 90 CRI LEDS  
Ballast/Driver: -

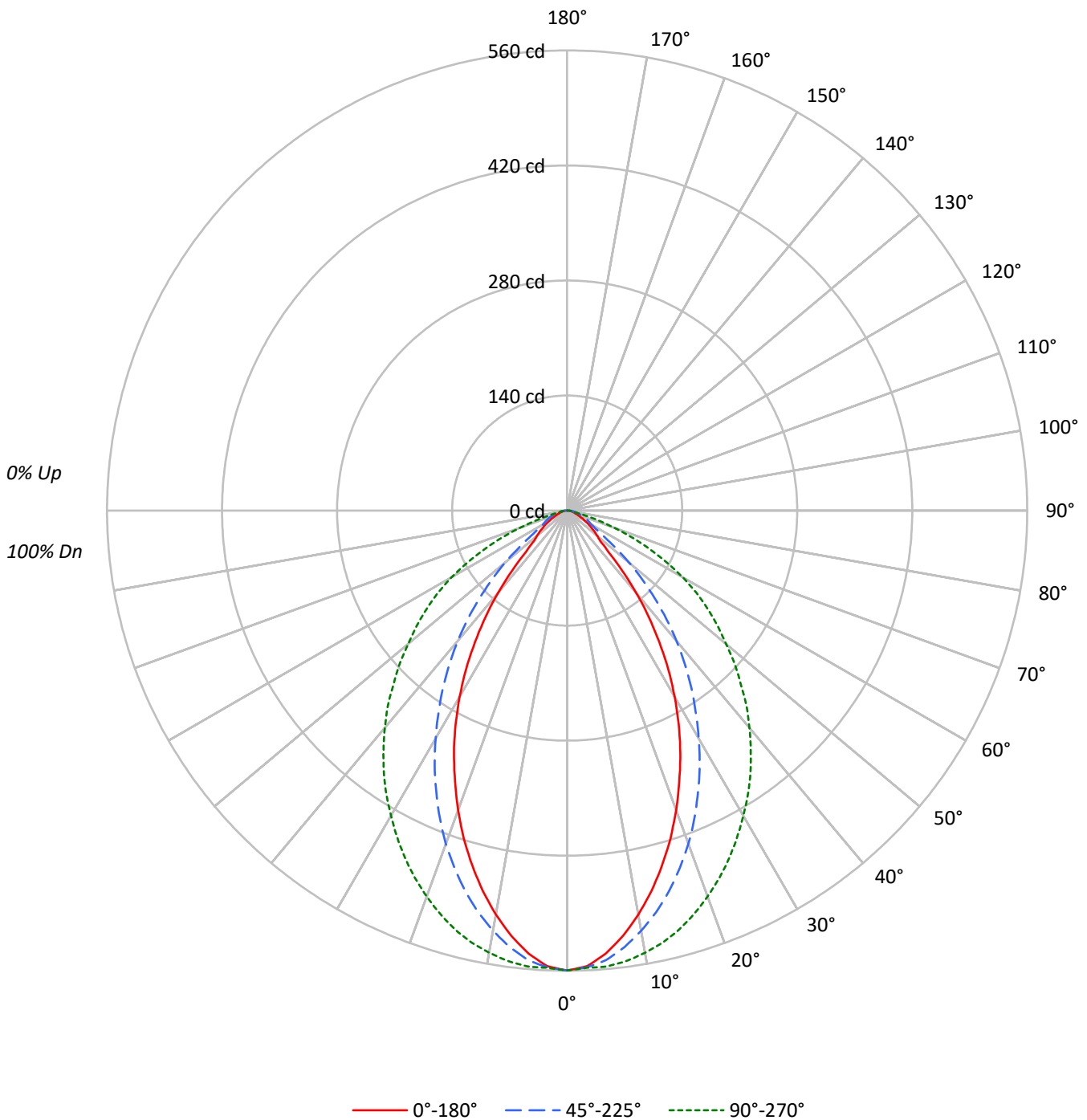
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 808.0 lumens  
Efficiency: N/A  
Efficacy: 41.2 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 (Ain): 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	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	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	87	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	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56					56			
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	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	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3853	3853	3853
5°	3739	3794	3849
10°	3490	3629	3819
15°	3185	3417	3762
20°	2841	3162	3663
25°	2476	2865	3546
30°	2079	2544	3409
35°	1641	2215	3270
40°	1176	1861	3103
45°	691	1461	2909
50°	512	1052	2703
55°	430	637	2510
60°	347	467	2239
65°	270	443	1795
70°	227	415	1216
75°	213	370	529
80°	210	369	341
85°	261	474	363

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2909 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.6	6.4
10°-20°	135.5	16.8
20°-30°	177.0	21.9
30°-40°	172.3	21.3
40°-50°	128.8	15.9
50°-60°	79.9	9.9
60°-70°	41.9	5.2
70°-80°	15.3	1.9
80°-90°	5.8	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°	364.0	45.1
0°-40°	536.4	66.4
0°-60°	745.0	92.2
0°-90°	808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	541	548	549	552	557	50
15°	447	460	479	508	528	125
25°	326	342	377	428	467	149
35°	195	216	264	334	389	121
45°	71	93	150	234	299	60
55°	36	38	53	138	209	32
65°	17	18	27	58	110	17
75°	8	9	14	15	20	9
85°	3	6	6	6	5	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	559.6	559.6	559.6	559.6	559.6
2.5°	555.0	559.6	556.3	556.3	556.9
5°	541.0	548.3	549.0	552.3	556.9
7.5°	521.8	530.4	535.7	545.7	553.0
10°	499.2	509.2	519.1	535.7	546.3
12.5°	474.0	485.9	500.5	523.1	538.4
15°	446.8	460.0	479.3	508.5	527.7
17.5°	418.2	432.1	456.0	491.2	514.5
20°	387.7	402.9	431.5	471.3	499.9
22.5°	356.5	373.7	404.9	450.1	483.9
25°	325.9	342.5	377.1	428.2	466.7
27.5°	294.1	311.3	349.2	405.6	448.1
30°	261.5	280.1	320.0	382.4	428.8
32.5°	229.0	248.3	291.4	358.5	409.6
35°	195.2	216.4	263.5	333.9	389.0
37.5°	163.3	185.9	235.0	308.7	367.1
40°	130.8	154.0	207.1	284.1	345.2
42.5°	98.9	122.8	178.6	258.9	323.3
45°	71.0	92.9	150.0	234.3	298.7
47.5°	54.4	67.0	123.5	209.1	276.8
50°	47.8	51.8	98.2	184.5	252.3
52.5°	41.8	44.5	73.0	160.6	231.0
55°	35.8	37.8	53.1	138.1	209.1
57.5°	30.5	32.5	40.5	117.5	186.5
60°	25.2	27.2	33.9	96.9	162.6
62.5°	21.2	21.9	30.5	77.7	136.1
65°	16.6	17.9	27.2	58.4	110.2
67.5°	13.9	14.6	23.9	41.8	85.0
70°	11.3	11.9	20.6	29.2	60.4
72.5°	10.0	10.0	17.3	21.2	38.5
75°	8.0	9.3	13.9	15.3	19.9
77.5°	6.6	9.3	11.9	11.3	10.6
80°	5.3	8.6	9.3	9.3	8.6
82.5°	4.6	7.3	8.0	7.3	6.6
85°	3.3	6.0	6.0	6.0	4.6
87.5°	2.7	5.3	4.6	4.6	3.3
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	4.47	5.82	4.83	6.13	6.44	14.18	15.53	14.54	15.84	16.15
	3H	5.31	6.50	5.68	6.83	7.20	15.09	16.29	15.47	16.62	16.98
	4H	5.67	6.79	6.07	7.14	7.52	15.19	16.30	15.59	16.65	17.04
	6H	6.04	7.07	6.45	7.44	7.83	15.17	16.20	15.59	16.57	16.96
	8H	6.22	7.19	6.65	7.58	7.99	15.16	16.13	15.59	16.52	16.93
	12H	6.38	7.31	6.81	7.69	8.12	15.15	16.08	15.58	16.46	16.89
4H	2H	5.30	6.41	5.70	6.76	7.15	14.03	15.14	14.43	15.50	15.88
	3H	6.35	7.27	6.77	7.67	8.08	15.02	15.93	15.43	16.33	16.74
	4H	6.81	7.63	7.25	8.05	8.49	15.15	15.96	15.58	16.38	16.83
	6H	7.37	8.07	7.83	8.52	8.99	15.18	15.88	15.64	16.33	16.80
	8H	7.63	8.28	8.09	8.73	9.20	15.18	15.84	15.65	16.28	16.75
	12H	7.87	8.45	8.35	8.93	9.41	15.19	15.77	15.67	16.25	16.73
8H	4H	7.37	8.03	7.84	8.47	8.94	15.07	15.73	15.54	16.18	16.65
	6H	8.14	8.68	8.64	9.18	9.66	15.13	15.67	15.63	16.17	16.65
	8H	8.56	9.04	9.08	9.56	10.05	15.16	15.64	15.68	16.16	16.65
	12H	8.97	9.40	9.49	9.90	10.47	15.21	15.64	15.73	16.13	16.71
12H	4H	7.43	8.01	7.91	8.49	8.97	15.04	15.62	15.52	16.10	16.58
	6H	8.29	8.77	8.81	9.29	9.78	15.10	15.58	15.62	16.10	16.59
	8H	8.81	9.24	9.33	9.74	10.31	15.16	15.59	15.68	16.08	16.65