

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: P1061744

Luminaire Tested: S125RDRP-S610D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061744  
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-S610D940-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

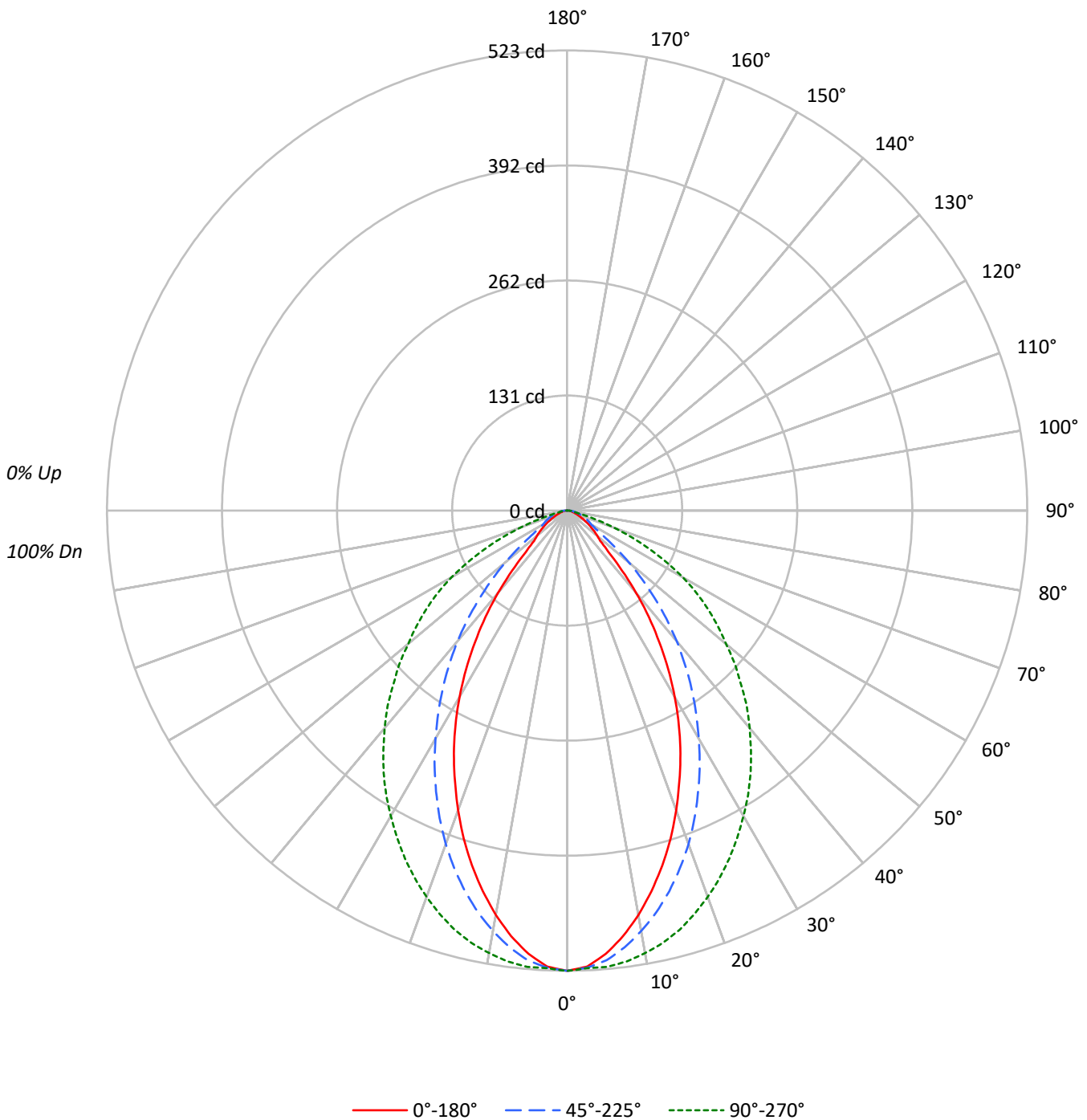
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 755.3 lumens  
Efficiency: N/A  
Efficacy: 38.5 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<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	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°	3602	3602	3602
5°	3495	3546	3598
10°	3262	3392	3571
15°	2977	3193	3516
20°	2655	2955	3423
25°	2315	2677	3314
30°	1944	2378	3187
35°	1533	2070	3056
40°	1098	1740	2900
45°	647	1365	2719
50°	479	983	2526
55°	402	595	2347
60°	325	435	2093
65°	253	414	1678
70°	211	387	1137
75°	197	346	495
80°	198	345	321
85°	245	442	340

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2719 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	6.4
10°-20°	126.6	16.8
20°-30°	165.5	21.9
30°-40°	161.1	21.3
40°-50°	120.4	15.9
50°-60°	74.7	9.9
60°-70°	39.2	5.2
70°-80°	14.3	1.9
80°-90°	5.4	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°	340.3	45.1
0°-40°	501.3	66.4
0°-60°	696.4	92.2
0°-90°	755.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	506	512	513	516	521	47
15°	418	430	448	475	493	117
25°	305	320	352	400	436	139
35°	182	202	246	312	364	114
45°	66	87	140	219	279	56
55°	34	35	50	129	196	30
65°	16	17	25	55	103	16
75°	7	9	13	14	19	8
85°	3	6	6	6	4	3
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	523.1	523.1	523.1	523.1	523.1
2.5°	518.7	523.1	520.0	520.0	520.6
5°	505.7	512.5	513.1	516.2	520.6
7.5°	487.7	495.8	500.7	510.0	516.9
10°	466.6	475.9	485.2	500.7	510.7
12.5°	443.0	454.2	467.8	488.9	503.2
15°	417.6	430.0	448.0	475.3	493.3
17.5°	390.9	403.9	426.3	459.2	480.9
20°	362.4	376.6	403.3	440.5	467.2
22.5°	333.2	349.3	378.5	420.7	452.3
25°	304.7	320.2	352.4	400.2	436.2
27.5°	274.9	291.0	326.4	379.1	418.8
30°	244.5	261.8	299.1	357.4	400.8
32.5°	214.1	232.1	272.4	335.1	382.8
35°	182.4	202.3	246.3	312.1	363.6
37.5°	152.6	173.7	219.6	288.5	343.1
40°	122.2	144.0	193.6	265.6	322.6
42.5°	92.5	114.8	166.9	242.0	302.2
45°	66.4	86.9	140.2	219.0	279.2
47.5°	50.9	62.7	115.4	195.5	258.7
50°	44.7	48.4	91.8	172.5	235.8
52.5°	39.1	41.6	68.3	150.2	215.9
55°	33.5	35.4	49.6	129.1	195.5
57.5°	28.5	30.4	37.8	109.8	174.4
60°	23.6	25.4	31.6	90.6	152.0
62.5°	19.9	20.5	28.5	72.6	127.2
65°	15.5	16.8	25.4	54.6	103.0
67.5°	13.0	13.7	22.3	39.1	79.4
70°	10.5	11.2	19.2	27.3	56.5
72.5°	9.3	9.3	16.1	19.9	36.0
75°	7.4	8.7	13.0	14.3	18.6
77.5°	6.2	8.7	11.2	10.5	9.9
80°	5.0	8.1	8.7	8.7	8.1
82.5°	4.3	6.8	7.4	6.8	6.2
85°	3.1	5.6	5.6	5.6	4.3
87.5°	2.5	5.0	4.3	4.3	3.1
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	4.24	5.59	4.60	5.90	6.21	13.94	15.29	14.31	15.60	15.92
	3H	5.08	6.27	5.46	6.60	6.97	14.85	16.05	15.23	16.38	16.75
	4H	5.43	6.55	5.84	6.90	7.28	14.95	16.07	15.36	16.42	16.80
	6H	5.81	6.84	6.22	7.21	7.60	14.94	15.97	15.35	16.33	16.73
	8H	5.99	6.96	6.42	7.35	7.76	14.93	15.90	15.36	16.29	16.69
	12H	6.15	7.08	6.58	7.46	7.89	14.91	15.84	15.34	16.23	16.66
4H	2H	5.06	6.18	5.47	6.53	6.91	13.79	14.91	14.19	15.26	15.64
	3H	6.12	7.04	6.53	7.44	7.84	14.78	15.70	15.19	16.10	16.50
	4H	6.58	7.39	7.01	7.81	8.26	14.91	15.73	15.35	16.15	16.59
	6H	7.14	7.84	7.60	8.29	8.76	14.94	15.65	15.41	16.10	16.56
	8H	7.40	8.06	7.86	8.50	8.97	14.94	15.60	15.41	16.05	16.52
	12H	7.64	8.22	8.12	8.70	9.18	14.95	15.54	15.44	16.02	16.49
8H	4H	7.13	7.79	7.60	8.24	8.71	14.84	15.50	15.30	15.94	16.41
	6H	7.92	8.45	8.42	8.95	9.43	14.90	15.44	15.40	15.93	16.41
	8H	8.33	8.81	8.85	9.33	9.82	14.92	15.41	15.45	15.92	16.42
	12H	8.74	9.17	9.26	9.67	10.24	14.98	15.41	15.49	15.90	16.47
12H	4H	7.19	7.78	7.68	8.26	8.73	14.80	15.39	15.29	15.87	16.34
	6H	8.06	8.54	8.58	9.06	9.55	14.86	15.35	15.38	15.86	16.35
	8H	8.58	9.01	9.10	9.51	10.08	14.93	15.35	15.44	15.85	16.42