

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: P1061714

Luminaire Tested: S125RDRP-S610D927-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061714  
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-S610D927-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

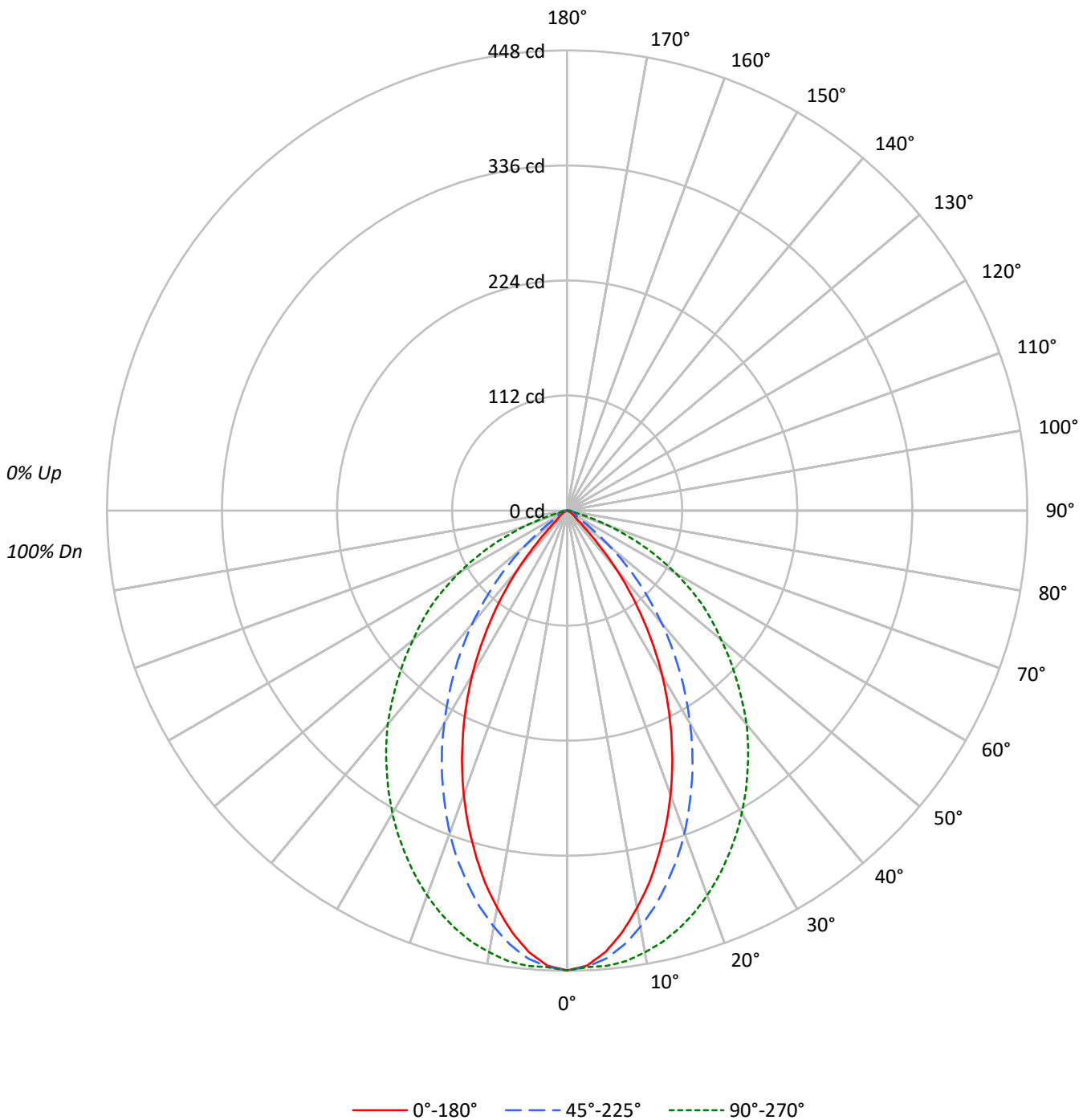
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 575.8 lumens  
Efficiency: N/A  
Efficacy: 29.4 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°	3083	3083	3083
5°	2980	3025	3075
10°	2744	2876	3052
15°	2464	2676	3002
20°	2157	2448	2921
25°	1822	2186	2818
30°	1468	1903	2705
35°	1080	1604	2576
40°	674	1293	2443
45°	252	945	2271
50°	118	590	2096
55°	86	245	1939
60°	61	129	1677
65°	36	153	1329
70°	34	177	843
75°	45	176	263
80°	67	218	198
85°	134	348	261

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2271 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.0	7.1
10°-20°	106.3	18.5
20°-30°	135.4	23.5
30°-40°	126.0	21.9
40°-50°	86.3	15.0
50°-60°	47.5	8.3
60°-70°	22.5	3.9
70°-80°	7.1	1.2
80°-90°	3.6	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°	282.7	49.1
0°-40°	408.7	71.0
0°-60°	542.6	94.2
0°-90°	575.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	575.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	431	437	438	441	445	40
15°	346	357	375	404	421	96
25°	240	255	288	334	371	109
35°	128	147	191	254	306	80
45°	26	44	97	172	233	25
55°	7	8	20	96	162	6
65°	2	3	9	35	82	3
75°	2	3	7	7	10	2
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	447.7	447.7	447.7	447.7	447.7
2.5°	443.3	447.7	444.4	444.4	444.9
5°	431.1	436.6	437.7	441.1	444.9
7.5°	413.5	420.7	426.2	435.5	442.2
10°	392.5	401.4	411.3	426.7	436.6
12.5°	370.5	379.9	394.7	416.2	430.0
15°	345.7	356.7	375.4	403.6	421.2
17.5°	320.3	332.4	355.6	388.7	410.7
20°	294.4	307.1	334.1	371.0	398.6
22.5°	267.4	281.2	310.9	352.8	385.4
25°	239.8	254.7	287.8	334.1	371.0
27.5°	212.3	227.7	264.1	314.8	356.1
30°	184.7	200.7	239.3	295.0	340.2
32.5°	156.6	174.2	215.0	275.1	323.6
35°	128.5	146.6	190.8	253.6	306.5
37.5°	100.9	119.6	167.0	233.2	289.4
40°	75.0	93.7	143.9	212.8	271.8
42.5°	48.5	68.4	119.6	191.9	252.5
45°	25.9	43.6	97.0	172.0	233.2
47.5°	13.8	23.2	75.5	152.2	215.0
50°	11.0	12.7	55.1	132.3	195.7
52.5°	8.8	9.9	35.3	111.9	178.6
55°	7.2	8.3	20.4	95.9	161.5
57.5°	5.5	6.6	11.6	79.9	141.7
60°	4.4	5.0	9.4	64.0	121.8
62.5°	2.8	3.9	9.4	49.6	102.0
65°	2.2	2.8	9.4	35.3	81.6
67.5°	2.2	2.2	9.4	23.2	61.2
70°	1.7	1.7	8.8	14.9	41.9
72.5°	1.7	1.7	7.7	9.9	24.3
75°	1.7	2.8	6.6	7.2	9.9
77.5°	1.7	4.4	6.1	6.1	5.5
80°	1.7	4.4	5.5	5.0	5.0
82.5°	1.7	4.4	4.4	4.4	3.9
85°	1.7	3.9	4.4	3.9	3.3
87.5°	1.7	3.9	3.9	3.9	2.2
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	12.95	14.24	13.32	14.55	14.87
	3H	0.00	0.00	0.00	0.00	0.00	13.74	14.88	14.12	15.21	15.57
	4H	0.00	0.00	0.00	0.00	0.00	13.77	14.83	14.17	15.18	15.56
	6H	0.00	0.00	0.00	0.00	0.00	13.72	14.70	14.14	15.07	15.46
	8H	0.00	0.00	0.00	0.00	0.00	13.70	14.62	14.13	15.01	15.42
	12H	0.00	0.00	0.00	0.00	0.00	13.68	14.56	14.12	14.94	15.37
4H	2H	0.00	0.00	0.00	0.00	0.00	12.74	13.79	13.14	14.15	14.53
	3H	0.00	0.00	0.00	0.00	0.00	13.57	14.43	13.98	14.83	15.24
	4H	0.00	0.00	0.00	0.00	0.00	13.60	14.37	14.04	14.79	15.24
	6H	0.00	0.40	0.20	0.85	1.31	13.59	14.25	14.05	14.70	15.17
	8H	0.48	1.10	0.95	1.55	2.02	13.57	14.19	14.04	14.64	15.11
	12H	1.24	1.79	1.73	2.27	2.75	13.58	14.12	14.06	14.61	15.08
8H	4H	0.27	0.89	0.74	1.33	1.81	13.49	14.11	13.96	14.55	15.03
	6H	2.01	2.51	2.51	3.01	3.49	13.49	13.99	13.99	14.49	14.97
	8H	2.96	3.41	3.48	3.93	4.42	13.50	13.95	14.02	14.47	14.96
	12H	3.91	4.31	4.43	4.81	5.38	13.54	13.94	14.06	14.44	15.01
12H	4H	0.57	1.11	1.06	1.60	2.07	13.44	13.99	13.93	14.47	14.95
	6H	2.46	2.92	2.99	3.43	3.93	13.44	13.90	13.97	14.41	14.91
	8H	3.60	4.00	4.11	4.49	5.06	13.48	13.88	14.00	14.38	14.95