

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061723

Luminaire Tested: S125RDR-S610D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061723  
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: S125RDR-S610D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

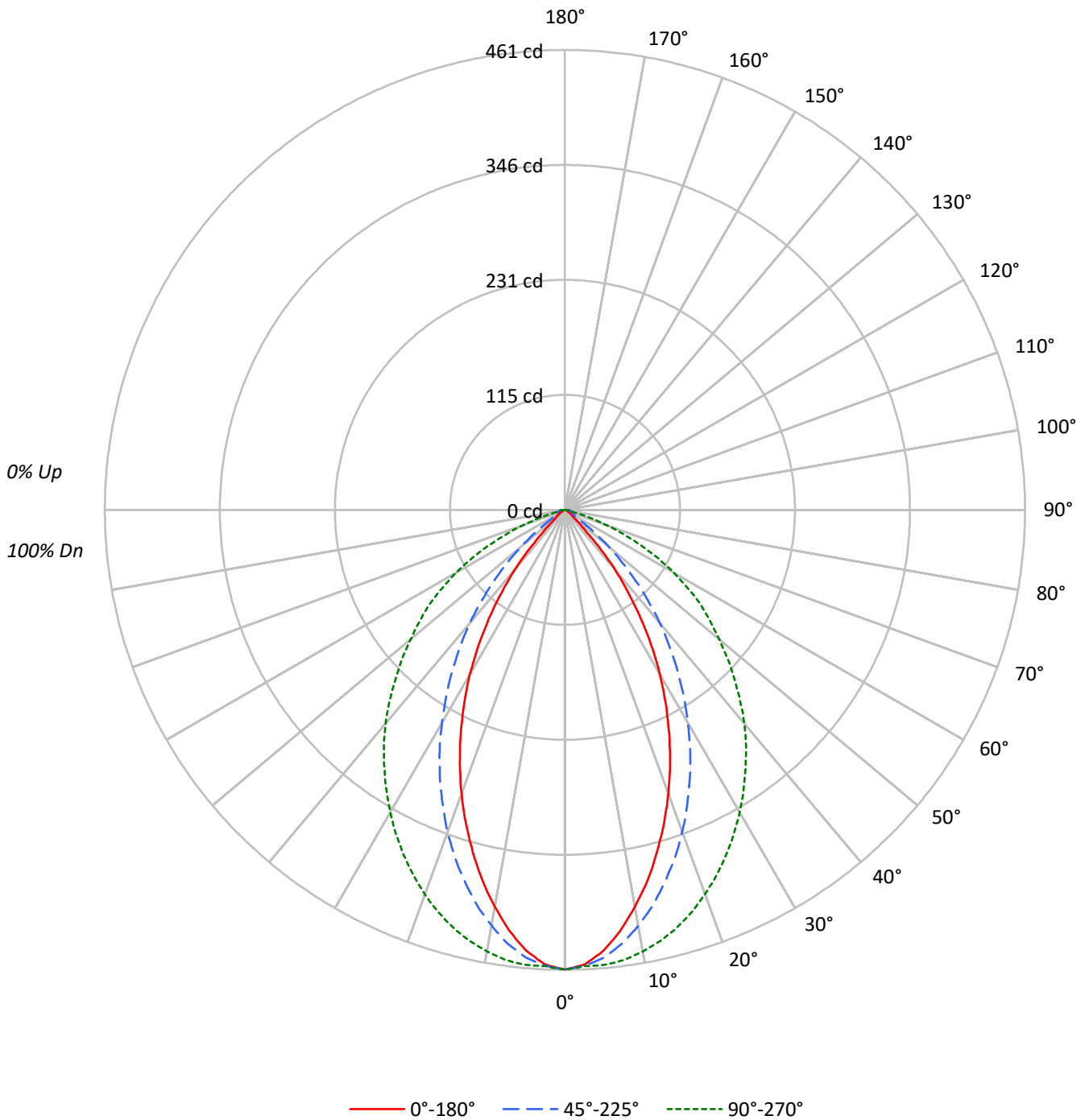
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 592.6 lumens  
Efficiency: N/A  
Efficacy: 30.2 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 (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	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°	3172	3172	3172
5°	3067	3114	3165
10°	2825	2959	3142
15°	2536	2754	3090
20°	2220	2519	3006
25°	1875	2250	2901
30°	1511	1958	2783
35°	1111	1650	2652
40°	694	1331	2514
45°	260	973	2337
50°	121	607	2157
55°	89	252	1995
60°	62	132	1727
65°	37	156	1369
70°	34	183	868
75°	45	181	271
80°	67	226	202
85°	134	355	269

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2337 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.2	7.1
10°-20°	109.4	18.5
20°-30°	139.3	23.5
30°-40°	129.7	21.9
40°-50°	88.9	15.0
50°-60°	48.9	8.3
60°-70°	23.2	3.9
70°-80°	7.3	1.2
80°-90°	3.7	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°	290.9	49.1
0°-40°	420.6	71.0
0°-60°	558.4	94.2
0°-90°	592.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	592.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	444	449	450	454	458	41
15°	356	367	386	415	434	99
25°	247	262	296	344	382	113
35°	132	151	196	261	316	82
45°	27	45	100	177	240	25
55°	7	8	21	99	166	7
65°	2	3	10	36	84	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°	460.7	460.7	460.7	460.7	460.7
2.5°	456.2	460.7	457.3	457.3	457.9
5°	443.7	449.4	450.5	453.9	457.9
7.5°	425.6	432.9	438.6	448.2	455.1
10°	404.0	413.1	423.3	439.2	449.4
12.5°	381.3	390.9	406.3	428.4	442.6
15°	355.8	367.1	386.4	415.3	433.5
17.5°	329.7	342.1	366.0	400.0	422.7
20°	303.0	316.0	343.8	381.9	410.2
22.5°	275.2	289.4	320.0	363.1	396.6
25°	246.8	262.1	296.2	343.8	381.9
27.5°	218.4	234.3	271.8	324.0	366.5
30°	190.1	206.5	246.3	303.6	350.1
32.5°	161.1	179.3	221.3	283.1	333.1
35°	132.2	150.9	196.3	261.0	315.5
37.5°	103.8	123.1	171.9	240.0	297.9
40°	77.2	96.5	148.1	219.0	279.7
42.5°	49.9	70.4	123.1	197.5	259.9
45°	26.7	44.8	99.9	177.0	240.0
47.5°	14.2	23.8	77.7	156.6	221.3
50°	11.3	13.1	56.7	136.2	201.4
52.5°	9.1	10.2	36.3	115.2	183.8
55°	7.4	8.5	21.0	98.7	166.2
57.5°	5.7	6.8	11.9	82.3	145.8
60°	4.5	5.1	9.6	65.8	125.4
62.5°	2.8	4.0	9.6	51.1	105.0
65°	2.3	2.8	9.6	36.3	84.0
67.5°	2.3	2.3	9.6	23.8	63.0
70°	1.7	1.7	9.1	15.3	43.1
72.5°	1.7	1.7	7.9	10.2	25.0
75°	1.7	2.8	6.8	7.4	10.2
77.5°	1.7	4.5	6.2	6.2	5.7
80°	1.7	4.5	5.7	5.1	5.1
82.5°	1.7	4.5	4.5	4.5	4.0
85°	1.7	4.0	4.5	4.0	3.4
87.5°	1.7	4.0	4.0	4.0	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)