

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: P1061735

Luminaire Tested: S125RDR-S610D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061735  
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: S125RDR-S610D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

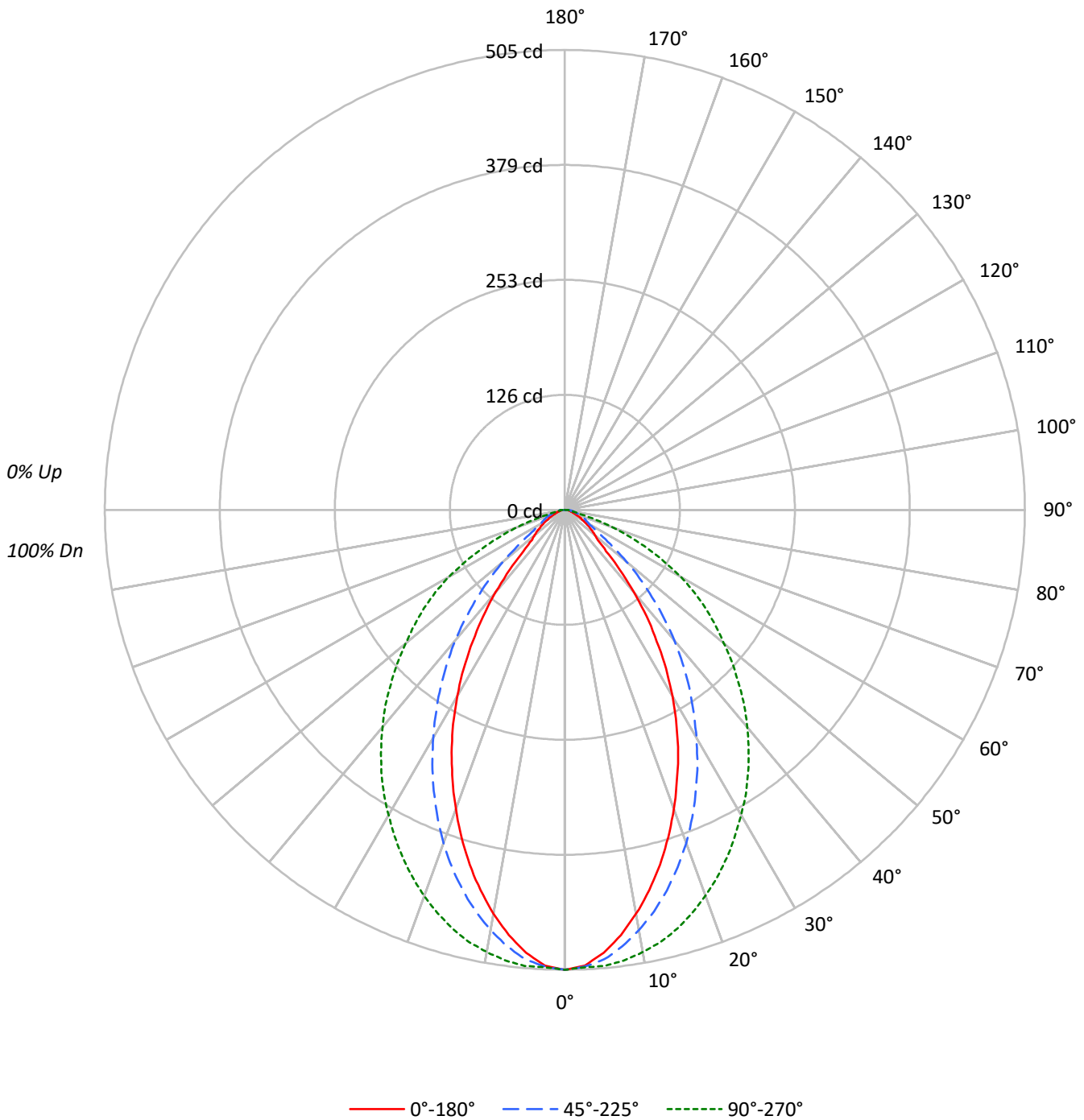
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 729.3 lumens  
Efficiency: N/A  
Efficacy: 37.2 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									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	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°	3477	3477	3477
5°	3375	3425	3474
10°	3150	3275	3447
15°	2874	3084	3395
20°	2564	2853	3305
25°	2235	2585	3200
30°	1876	2296	3077
35°	1480	1999	2951
40°	1061	1680	2800
45°	624	1318	2625
50°	462	950	2439
55°	389	575	2265
60°	314	421	2022
65°	244	401	1621
70°	205	374	1097
75°	192	335	479
80°	190	333	309
85°	237	427	332

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2625 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.5	6.4
10°-20°	122.3	16.8
20°-30°	159.8	21.9
30°-40°	155.5	21.3
40°-50°	116.2	15.9
50°-60°	72.1	9.9
60°-70°	37.9	5.2
70°-80°	13.8	1.9
80°-90°	5.2	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°	328.6	45.1
0°-40°	484.1	66.4
0°-60°	672.4	92.2
0°-90°	729.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	729.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	505	505	505	505	505	
5°	488	495	496	498	503	45
15°	403	415	433	459	476	113
25°	294	309	340	386	421	134
35°	176	195	238	301	351	110
45°	64	84	135	212	270	54
55°	32	34	48	125	189	29
65°	15	16	25	53	100	16
75°	7	8	13	14	18	8
85°	3	5	5	5	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	505.0	505.0	505.0	505.0	505.0
2.5°	500.9	505.0	502.1	502.1	502.7
5°	488.3	494.9	495.5	498.5	502.7
7.5°	470.9	478.7	483.5	492.5	499.1
10°	450.5	459.5	468.5	483.5	493.1
12.5°	427.8	438.5	451.7	472.1	485.9
15°	403.2	415.2	432.6	458.9	476.3
17.5°	377.4	390.0	411.6	443.3	464.3
20°	349.9	363.7	389.4	425.4	451.1
22.5°	321.7	337.3	365.5	406.2	436.8
25°	294.2	309.1	340.3	386.4	421.2
27.5°	265.4	281.0	315.1	366.1	404.4
30°	236.0	252.8	288.8	345.1	387.0
32.5°	206.7	224.1	263.0	323.5	369.7
35°	176.1	195.3	237.8	301.4	351.1
37.5°	147.4	167.8	212.1	278.6	331.3
40°	118.0	139.0	186.9	256.4	311.5
42.5°	89.3	110.8	161.2	233.7	291.8
45°	64.1	83.9	135.4	211.5	269.6
47.5°	49.1	60.5	111.4	188.7	249.8
50°	43.1	46.7	88.7	166.6	227.7
52.5°	37.7	40.1	65.9	145.0	208.5
55°	32.4	34.1	47.9	124.6	188.7
57.5°	27.6	29.4	36.5	106.0	168.3
60°	22.8	24.6	30.6	87.5	146.8
62.5°	19.2	19.8	27.6	70.1	122.8
65°	15.0	16.2	24.6	52.7	99.5
67.5°	12.6	13.2	21.6	37.7	76.7
70°	10.2	10.8	18.6	26.4	54.5
72.5°	9.0	9.0	15.6	19.2	34.7
75°	7.2	8.4	12.6	13.8	18.0
77.5°	6.0	8.4	10.8	10.2	9.6
80°	4.8	7.8	8.4	8.4	7.8
82.5°	4.2	6.6	7.2	6.6	6.0
85°	3.0	5.4	5.4	5.4	4.2
87.5°	2.4	4.8	4.2	4.2	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)