

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: P1061733

Luminaire Tested: S125RDR-S610D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S610D935-X4F0-XX-UDD-BVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

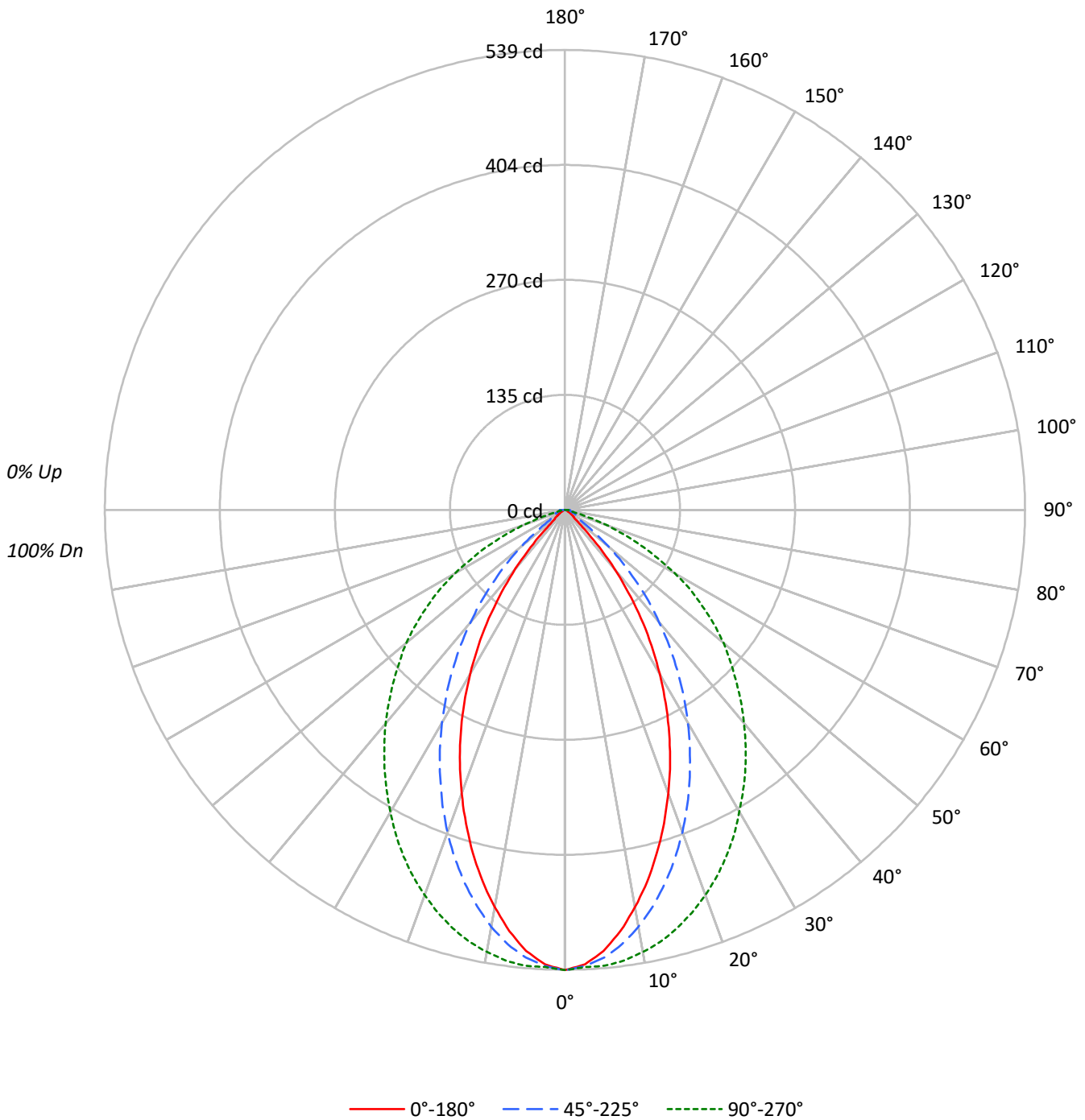
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 697.9 lumens  
Efficiency: N/A  
Efficacy: 35.6 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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				38

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

	0°	45°	90°
0°	3714	3714	3714
5°	3587	3641	3707
10°	3306	3469	3679
15°	2969	3230	3618
20°	2591	2946	3521
25°	2195	2627	3401
30°	1763	2287	3249
35°	1305	1929	3098
40°	808	1541	2935
45°	315	1127	2760
50°	148	706	2600
55°	108	303	2360
60°	74	215	2046
65°	49	225	1592
70°	48	205	1001
75°	64	207	319
80°	95	238	214
85°	142	474	332

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2760 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.5	7.1
10°-20°	128.2	18.4
20°-30°	163.2	23.4
30°-40°	151.9	21.8
40°-50°	104.6	15.0
50°-60°	59.2	8.5
60°-70°	28.0	4.0
70°-80°	8.8	1.3
80°-90°	4.6	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°	340.8	48.8
0°-40°	492.8	70.6
0°-60°	656.6	94.1
0°-90°	697.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	697.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	519	526	527	532	536	48
15°	416	430	453	487	508	116
25°	289	307	346	404	448	132
35°	155	177	230	308	369	96
45°	32	52	116	209	284	30
55°	9	10	25	120	197	8
65°	3	4	14	43	98	3
75°	2	5	8	8	12	3
85°	2	5	6	5	4	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	539.4	539.4	539.4	539.4	539.4
2.5°	533.4	538.8	535.2	535.8	536.4
5°	519.0	526.2	526.8	531.6	536.4
7.5°	498.0	507.0	513.6	525.0	532.8
10°	472.8	483.6	496.2	514.8	526.2
12.5°	445.9	458.5	475.8	502.2	518.4
15°	416.5	430.3	453.1	487.2	507.6
17.5°	385.3	400.9	428.5	469.2	495.0
20°	353.6	370.4	402.1	448.9	480.6
22.5°	321.8	339.2	374.6	426.7	465.1
25°	288.9	307.4	345.8	403.9	447.7
27.5°	255.3	274.5	317.0	380.6	429.1
30°	221.7	242.1	287.7	356.6	408.7
32.5°	188.8	209.2	258.9	332.6	388.9
35°	155.2	176.8	229.5	308.0	368.6
37.5°	121.7	145.0	200.8	282.9	347.6
40°	89.9	112.1	171.4	258.3	326.6
42.5°	59.9	81.5	145.0	233.7	305.0
45°	32.4	51.5	115.7	209.2	283.5
47.5°	17.4	27.6	90.5	185.2	262.5
50°	13.8	15.6	65.9	163.0	242.7
52.5°	11.4	12.6	43.1	142.0	219.9
55°	9.0	10.2	25.2	120.5	196.6
57.5°	7.2	8.4	16.2	100.1	173.8
60°	5.4	6.6	15.6	80.3	148.6
62.5°	4.2	4.8	14.4	61.7	122.3
65°	3.0	3.6	13.8	43.1	97.7
67.5°	2.4	3.0	12.6	27.6	73.1
70°	2.4	2.4	10.2	18.0	49.7
72.5°	2.4	4.2	9.0	12.0	30.0
75°	2.4	5.4	7.8	8.4	12.0
77.5°	2.4	6.0	6.6	6.6	6.6
80°	2.4	5.4	6.0	6.0	5.4
82.5°	2.4	4.8	5.4	6.0	4.8
85°	1.8	4.8	6.0	5.4	4.2
87.5°	1.8	4.8	5.4	4.8	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)