

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: P1061738

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S610D935-X4F0-XX-UDD-WVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

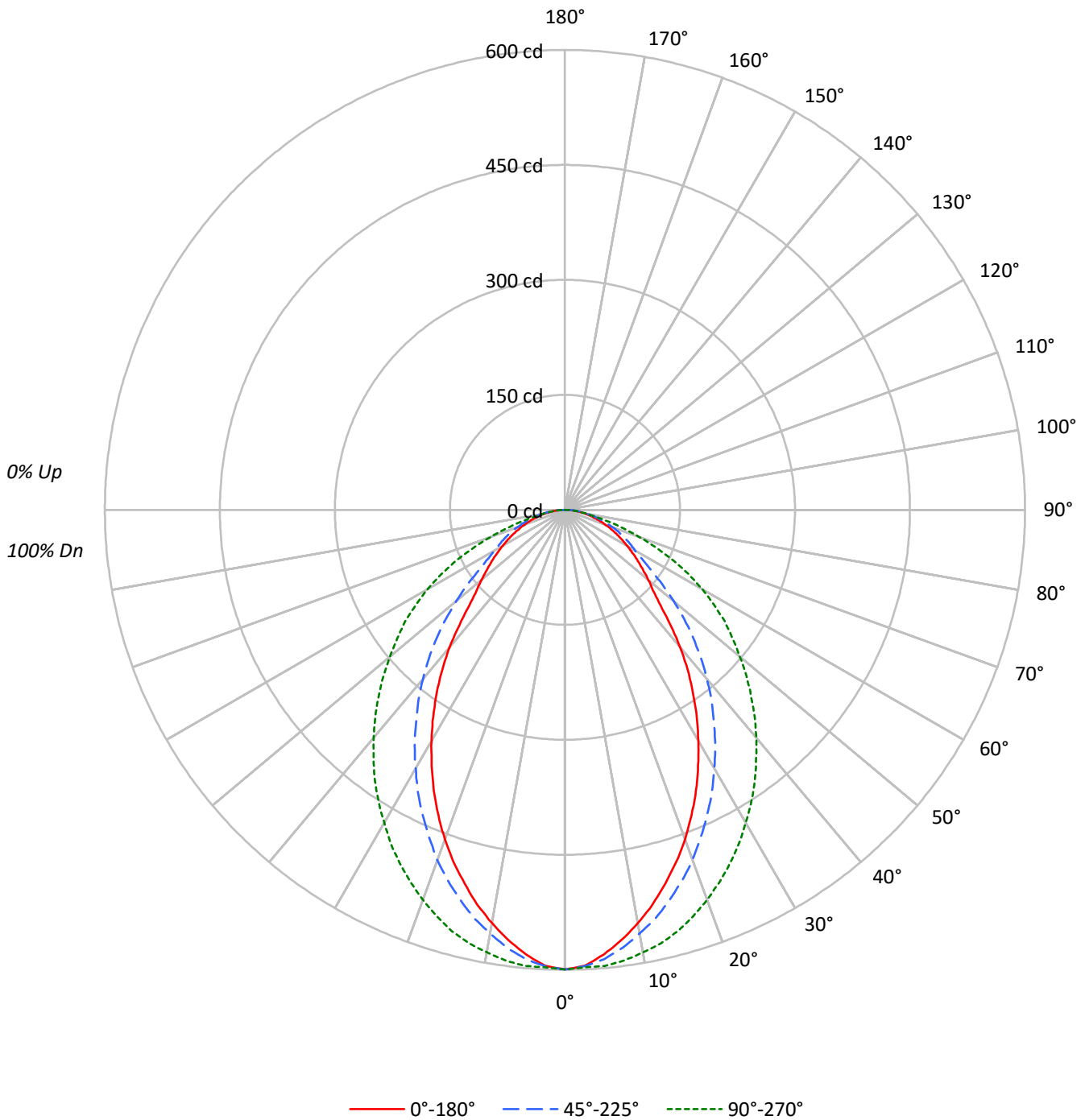
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1124.0 lumens  
Efficiency: N/A  
Efficacy: 57.3 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12  
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44				44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				30

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

	0°	45°	90°
0°	4128	4128	4128
5°	4024	4065	4128
10°	3828	3924	4100
15°	3599	3757	4056
20°	3353	3564	3968
25°	3071	3335	3868
30°	2767	3095	3748
35°	2447	2844	3630
40°	2100	2589	3488
45°	1715	2304	3342
50°	1521	1976	3189
55°	1395	1640	3056
60°	1286	1451	2845
65°	1201	1396	2537
70°	1121	1327	2074
75°	1035	1242	1530
80°	975	1162	1118
85°	901	1138	948

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3342 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.5	4.9
10°-20°	149.5	13.3
20°-30°	205.4	18.3
30°-40°	217.7	19.4
40°-50°	190.0	16.9
50°-60°	144.4	12.8
60°-70°	96.7	8.6
70°-80°	49.9	4.4
80°-90°	15.0	1.3
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°	410.3	36.5
0°-40°	628.0	55.9
0°-60°	962.4	85.6
0°-90°	1124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1124.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	582	588	588	592	597	54
15°	505	514	527	550	569	142
25°	404	417	439	476	509	185
35°	291	308	338	386	432	182
45°	176	194	237	293	343	139
55°	116	120	137	201	255	104
65°	74	76	86	114	156	73
75°	39	41	47	50	58	42
85°	11	14	14	13	12	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	599.6	599.6	599.6	599.6	599.6
2.5°	595.4	599.6	596.0	596.0	597.2
5°	582.2	588.2	588.2	592.4	597.2
7.5°	566.0	572.6	576.2	585.8	593.0
10°	547.5	554.6	561.2	575.6	586.4
12.5°	527.7	535.5	545.7	564.2	579.2
15°	504.9	514.5	527.1	550.4	569.0
17.5°	482.2	491.8	507.3	534.9	555.8
20°	457.6	467.8	486.4	516.3	541.5
22.5°	431.3	442.6	462.4	496.5	525.9
25°	404.3	416.9	439.0	475.6	509.1
27.5°	376.2	391.1	415.1	454.0	491.2
30°	348.0	363.0	389.3	431.9	471.4
32.5°	319.8	336.0	364.8	409.7	452.2
35°	291.1	307.9	338.4	386.3	431.9
37.5°	262.9	279.7	313.9	363.6	409.7
40°	233.6	251.0	288.1	340.2	388.1
42.5°	203.6	222.2	262.3	316.3	366.0
45°	176.1	193.5	236.6	292.9	343.2
47.5°	155.7	167.1	210.8	268.9	321.0
50°	142.0	147.9	184.5	245.6	297.7
52.5°	128.2	133.0	159.9	221.6	275.5
55°	116.2	119.8	136.6	200.7	254.6
57.5°	104.2	107.8	118.6	179.7	230.0
60°	93.4	96.4	105.4	157.5	206.6
62.5°	83.3	85.7	95.2	136.6	181.5
65°	73.7	75.5	85.7	114.4	155.7
67.5°	64.1	65.9	76.1	93.4	128.2
70°	55.7	56.3	65.9	76.1	103.0
72.5°	47.3	47.9	55.7	61.7	79.1
75°	38.9	41.3	46.7	49.7	57.5
77.5°	31.7	34.7	37.7	38.9	38.9
80°	24.6	28.2	29.3	29.3	28.2
82.5°	18.0	21.0	21.6	20.4	19.2
85°	11.4	14.4	14.4	13.2	12.0
87.5°	5.4	7.8	7.8	7.2	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)