

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: P1061507

Luminaire Tested: S125RDR-S1090D950-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061507  
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-S1090D950-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: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

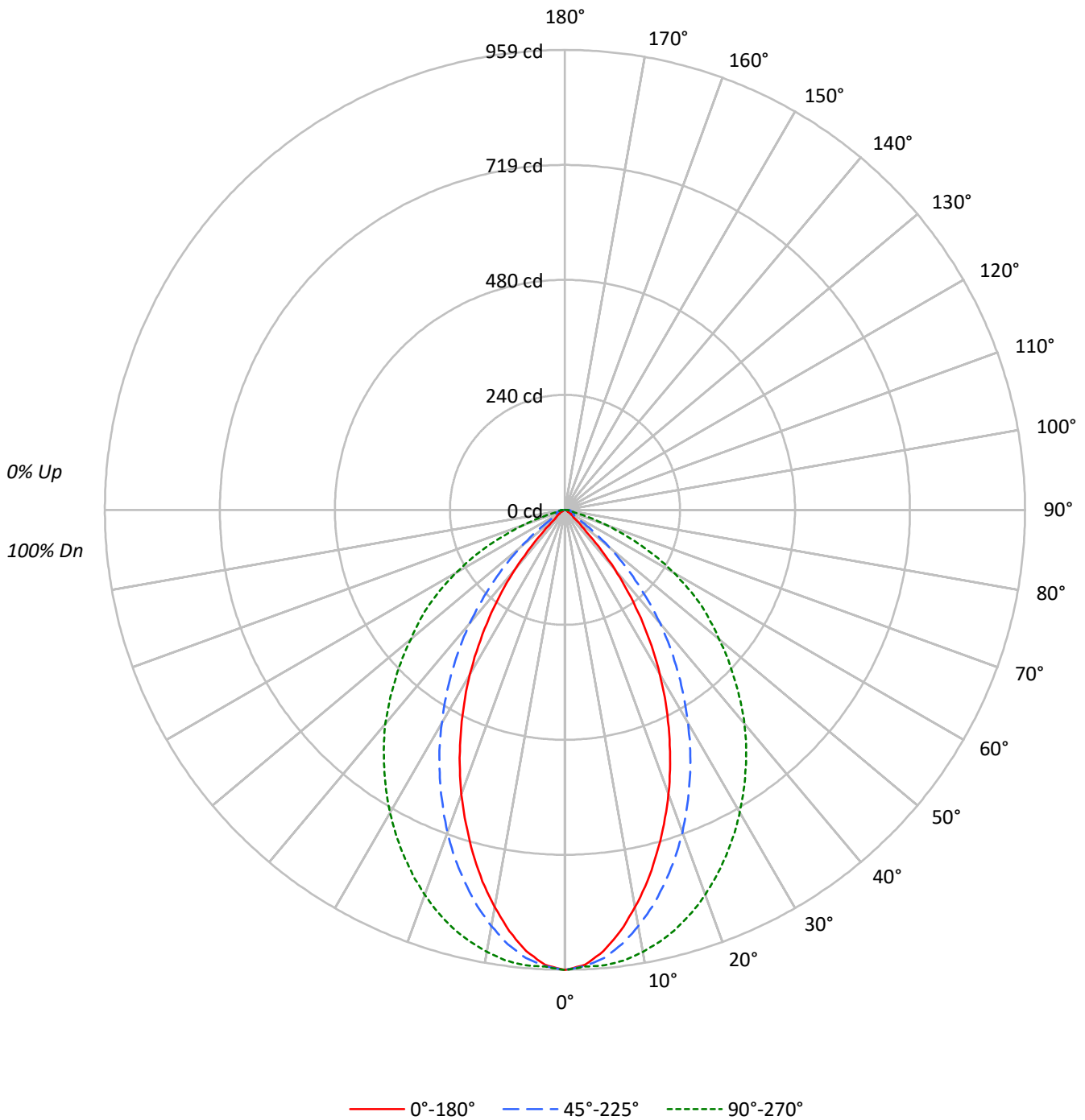
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1233.9 lumens  
Efficiency: N/A  
Efficacy: 35.3 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): 35  
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°	6606	6606	6606
5°	6386	6484	6589
10°	5881	6162	6542
15°	5281	5735	6434
20°	4623	5246	6259
25°	3904	4685	6040
30°	3147	4077	5796
35°	2314	3436	5521
40°	1444	2772	5236
45°	540	2024	4867
50°	253	1265	4492
55°	185	525	4156
60°	131	277	3595
65°	77	327	2849
70°	70	380	1808
75°	93	378	567
80°	139	468	420
85°	276	750	561

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4867 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	7.1
10°-20°	227.7	18.5
20°-30°	290.1	23.5
30°-40°	270.0	21.9
40°-50°	185.0	15.0
50°-60°	101.9	8.3
60°-70°	48.2	3.9
70°-80°	15.2	1.2
80°-90°	7.8	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°	605.8	49.1
0°-40°	875.9	71.0
0°-60°	1162.8	94.2
0°-90°	1233.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	924	936	938	945	953	86
15°	741	764	805	865	903	207
25°	514	546	617	716	795	235
35°	275	314	409	544	657	171
45°	56	93	208	369	500	53
55°	15	18	44	206	346	14
65°	5	6	20	76	175	5
75°	4	6	14	15	21	4
85°	4	8	10	8	7	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	959.4	959.4	959.4	959.4	959.4
2.5°	949.9	959.4	952.3	952.3	953.4
5°	923.9	935.7	938.1	945.2	953.4
7.5°	886.1	901.5	913.3	933.4	947.5
10°	841.2	860.1	881.4	914.5	935.7
12.5°	794.0	814.0	845.9	892.0	921.5
15°	740.8	764.4	804.6	864.8	902.6
17.5°	686.4	712.4	762.1	832.9	880.2
20°	630.9	658.1	716.0	795.1	854.2
22.5°	573.0	602.6	666.4	756.1	825.8
25°	513.9	545.8	616.7	716.0	795.1
27.5°	454.9	487.9	565.9	674.6	763.2
30°	395.8	430.1	512.8	632.1	729.0
32.5°	335.5	373.3	460.8	589.6	693.5
35°	275.3	314.3	408.8	543.5	656.9
37.5°	216.2	256.4	358.0	499.8	620.3
40°	160.7	200.9	308.4	456.0	582.5
42.5°	104.0	146.5	256.4	411.2	541.1
45°	55.5	93.3	207.9	368.6	499.8
47.5°	29.5	49.6	161.9	326.1	460.8
50°	23.6	27.2	118.1	283.6	419.4
52.5°	18.9	21.3	75.6	239.8	382.8
55°	15.4	17.7	43.7	205.6	346.2
57.5°	11.8	14.2	24.8	171.3	303.6
60°	9.5	10.6	20.1	137.1	261.1
62.5°	5.9	8.3	20.1	106.3	218.6
65°	4.7	5.9	20.1	75.6	174.9
67.5°	4.7	4.7	20.1	49.6	131.1
70°	3.5	3.5	18.9	31.9	89.8
72.5°	3.5	3.5	16.5	21.3	52.0
75°	3.5	5.9	14.2	15.4	21.3
77.5°	3.5	9.5	13.0	13.0	11.8
80°	3.5	9.5	11.8	10.6	10.6
82.5°	3.5	9.5	9.5	9.5	8.3
85°	3.5	8.3	9.5	8.3	7.1
87.5°	3.5	8.3	8.3	8.3	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)