

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: P1060442

Luminaire Tested: S124RDR-S350D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S350D935-X4F0-XX-UDD-WVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

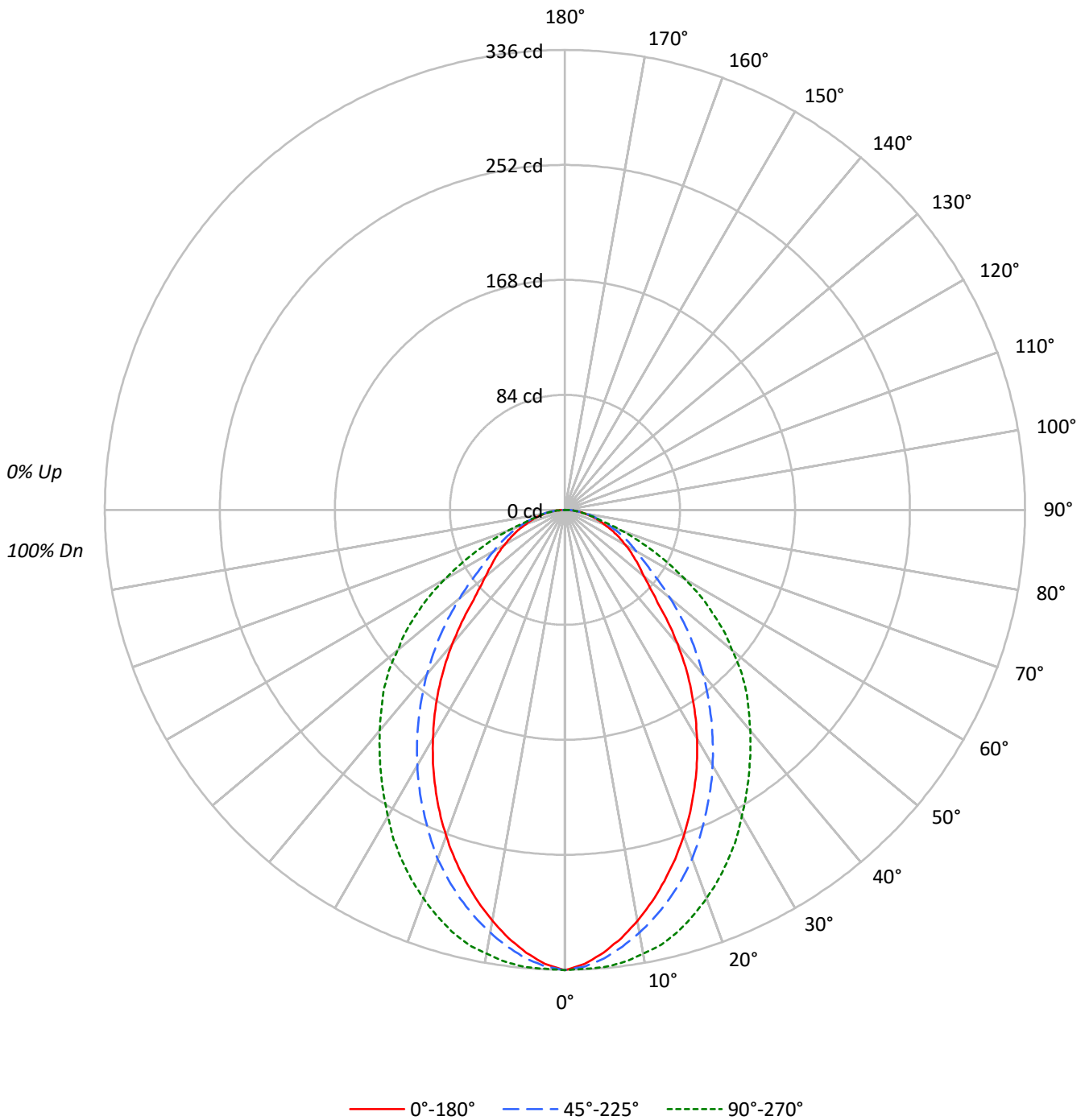
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 612.3 lumens  
Efficiency: N/A  
Efficacy: 49.0 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1  
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 12.5  
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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CATALOG NUMBER: S124RDR-S350D935-X4F0-XX-UDD-WVL-S

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100														
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87	87	87	87														
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	75	75	75	75	75														
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	65	65	65	65	65														
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	57	57	57	57	57														
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50	50	50	50	50	50	50														
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45	45	45	45	45														
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41	41	41	41	41	41	41														
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37	37	37	37	37	37	37														
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34	34	34	34	34	34	34														
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31	31	31	31	31	31	31														

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

	0°	45°	90°
0°	2896	2896	2896
5°	2807	2843	2898
10°	2666	2743	2879
15°	2502	2625	2844
20°	2323	2487	2768
25°	2127	2317	2679
30°	1917	2145	2569
35°	1690	1956	2464
40°	1439	1764	2366
45°	1168	1559	2280
50°	1010	1341	2134
55°	937	1138	1979
60°	875	1026	1736
65°	819	962	1445
70°	763	889	1093
75°	729	822	785
80°	679	754	664
85°	622	701	524

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2280 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.1	5.1
10°-20°	83.5	13.6
20°-30°	114.0	18.6
30°-40°	119.4	19.5
40°-50°	103.3	16.9
50°-60°	77.6	12.7
60°-70°	50.1	8.2
70°-80°	25.7	4.2
80°-90°	7.7	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°	228.5	37.3
0°-40°	347.9	56.8
0°-60°	528.9	86.4
0°-90°	612.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	612.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	336	336	336	336	336	
5°	325	330	329	331	335	30
15°	281	288	294	308	319	79
25°	224	232	244	263	282	103
35°	161	170	186	211	234	100
45°	96	106	128	159	187	76
55°	62	64	76	108	132	56
65°	40	41	47	57	71	40
75°	22	24	25	24	24	23
85°	6	7	7	7	5	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	336.3	336.3	336.3	336.3	336.3
2.5°	332.1	336.3	333.8	334.5	335.6
5°	324.7	329.6	328.9	331.4	335.3
7.5°	315.5	320.8	321.9	327.5	333.1
10°	304.9	310.9	313.7	322.2	329.3
12.5°	293.3	299.6	304.6	315.2	325.4
15°	280.6	287.7	294.4	307.8	319.0
17.5°	267.6	274.6	283.4	298.2	310.9
20°	253.5	261.2	271.4	287.0	302.1
22.5°	239.0	247.1	258.0	275.0	292.6
25°	223.9	232.3	243.9	263.0	282.0
27.5°	208.7	217.2	230.2	250.3	271.1
30°	192.8	201.6	215.7	237.6	258.4
32.5°	177.0	186.5	200.9	224.2	246.4
35°	160.8	169.9	186.1	210.8	234.4
37.5°	144.5	154.1	171.3	197.8	222.4
40°	128.0	137.8	156.9	184.7	210.5
42.5°	111.4	122.0	142.1	171.3	198.5
45°	95.9	105.8	128.0	159.3	187.2
47.5°	84.3	91.0	113.9	147.7	174.5
50°	75.4	79.0	100.1	135.0	159.3
52.5°	68.7	71.2	87.4	121.3	147.0
55°	62.4	64.5	75.8	108.2	131.8
57.5°	56.8	57.8	67.0	95.5	117.4
60°	50.8	51.8	59.6	81.8	100.8
62.5°	45.5	46.2	53.6	68.7	85.7
65°	40.2	40.9	47.2	57.1	70.9
67.5°	35.3	36.3	41.2	46.5	56.4
70°	30.3	32.4	35.3	37.7	43.4
72.5°	26.1	28.2	29.6	30.3	30.7
75°	21.9	24.3	24.7	24.3	23.6
77.5°	17.6	19.7	19.7	19.0	18.3
80°	13.7	15.5	15.2	14.5	13.4
82.5°	10.2	11.3	10.9	10.2	9.2
85°	6.3	7.4	7.1	6.7	5.3
87.5°	3.2	4.2	3.9	3.5	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)