

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: P1060440

Luminaire Tested: S124RDR-S350D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S350D935-X4F0-XX-UDD-SVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

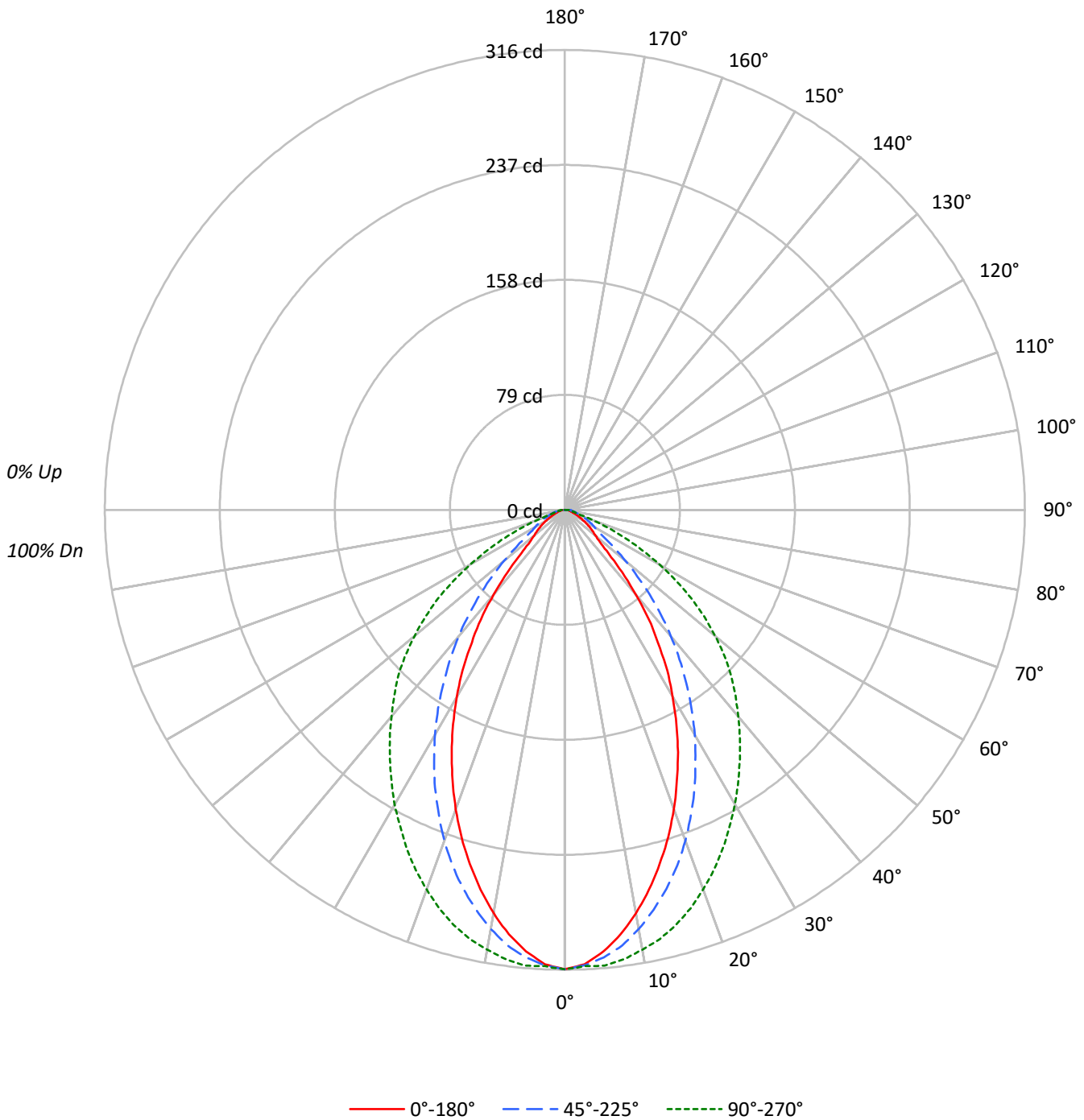
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 446.8 lumens  
Efficiency: N/A  
Efficacy: 35.7 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01  
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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### 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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63				63
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57				57
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51				51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43				43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°
0°	2719	2719	2719
5°	2634	2668	2717
10°	2461	2557	2684
15°	2245	2403	2632
20°	2007	2218	2544
25°	1746	2004	2440
30°	1473	1775	2325
35°	1172	1527	2202
40°	852	1272	2082
45°	515	1005	1972
50°	368	727	1805
55°	312	492	1594
60°	255	401	1288
65°	202	359	927
70°	169	302	488
75°	153	283	246
80°	159	278	243
85°	207	415	277

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1972 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.1	6.5
10°-20°	76.2	17.0
20°-30°	98.8	22.1
30°-40°	95.1	21.3
40°-50°	70.7	15.8
50°-60°	43.5	9.7
60°-70°	21.4	4.8
70°-80°	8.3	1.9
80°-90°	3.8	0.8
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°	204.0	45.7
0°-40°	299.1	66.9
0°-60°	413.3	92.5
0°-90°	446.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	446.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	316	316	316	316	316	
5°	305	309	309	311	314	28
15°	252	260	270	286	295	70
25°	184	194	211	237	257	84
35°	112	122	145	182	210	70
45°	42	53	82	127	162	35
55°	21	22	33	75	106	19
65°	10	11	18	28	46	10
75°	5	8	8	8	7	5
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	315.7	315.7	315.7	315.7	315.7
2.5°	312.5	316.0	313.2	313.6	313.9
5°	304.7	309.3	308.6	311.4	314.3
7.5°	294.2	299.4	301.9	307.6	311.4
10°	281.5	287.5	292.4	301.6	306.9
12.5°	267.4	274.4	281.5	293.8	301.9
15°	251.8	259.9	269.5	285.7	295.2
17.5°	236.0	244.1	256.4	275.1	287.1
20°	219.0	227.8	242.0	262.8	277.6
22.5°	201.4	210.9	226.4	250.1	267.7
25°	183.8	193.6	210.9	237.4	256.8
27.5°	166.1	175.6	194.3	224.0	245.1
30°	148.1	158.0	178.5	209.5	233.8
32.5°	130.9	140.0	161.9	195.8	221.5
35°	111.5	122.0	145.3	181.6	209.5
37.5°	94.9	104.4	129.4	167.5	197.5
40°	75.8	86.4	113.2	153.8	185.2
42.5°	58.2	68.8	97.7	140.0	173.5
45°	42.3	52.6	82.5	127.3	161.9
47.5°	32.1	38.1	67.7	115.0	148.8
50°	27.5	29.3	54.3	101.6	134.7
52.5°	24.3	25.0	42.3	88.2	120.6
55°	20.8	21.5	32.8	74.8	106.2
57.5°	17.6	18.0	26.5	62.1	90.6
60°	14.8	15.2	23.3	49.7	74.8
62.5°	12.3	12.7	20.8	38.4	59.6
65°	9.9	10.6	17.6	28.2	45.5
67.5°	8.1	9.5	14.8	19.8	31.7
70°	6.7	9.2	12.0	13.8	19.4
72.5°	5.6	8.5	10.2	9.9	9.5
75°	4.6	8.1	8.5	7.8	7.4
77.5°	3.9	7.1	7.1	6.3	6.0
80°	3.2	5.6	5.6	5.6	4.9
82.5°	2.8	4.6	4.9	4.9	3.9
85°	2.1	3.9	4.2	4.2	2.8
87.5°	1.4	3.5	3.9	3.5	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)