

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: P1060502

Luminaire Tested: S124RDR-S575D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S575D927-X4F0-XX-UDD-SVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

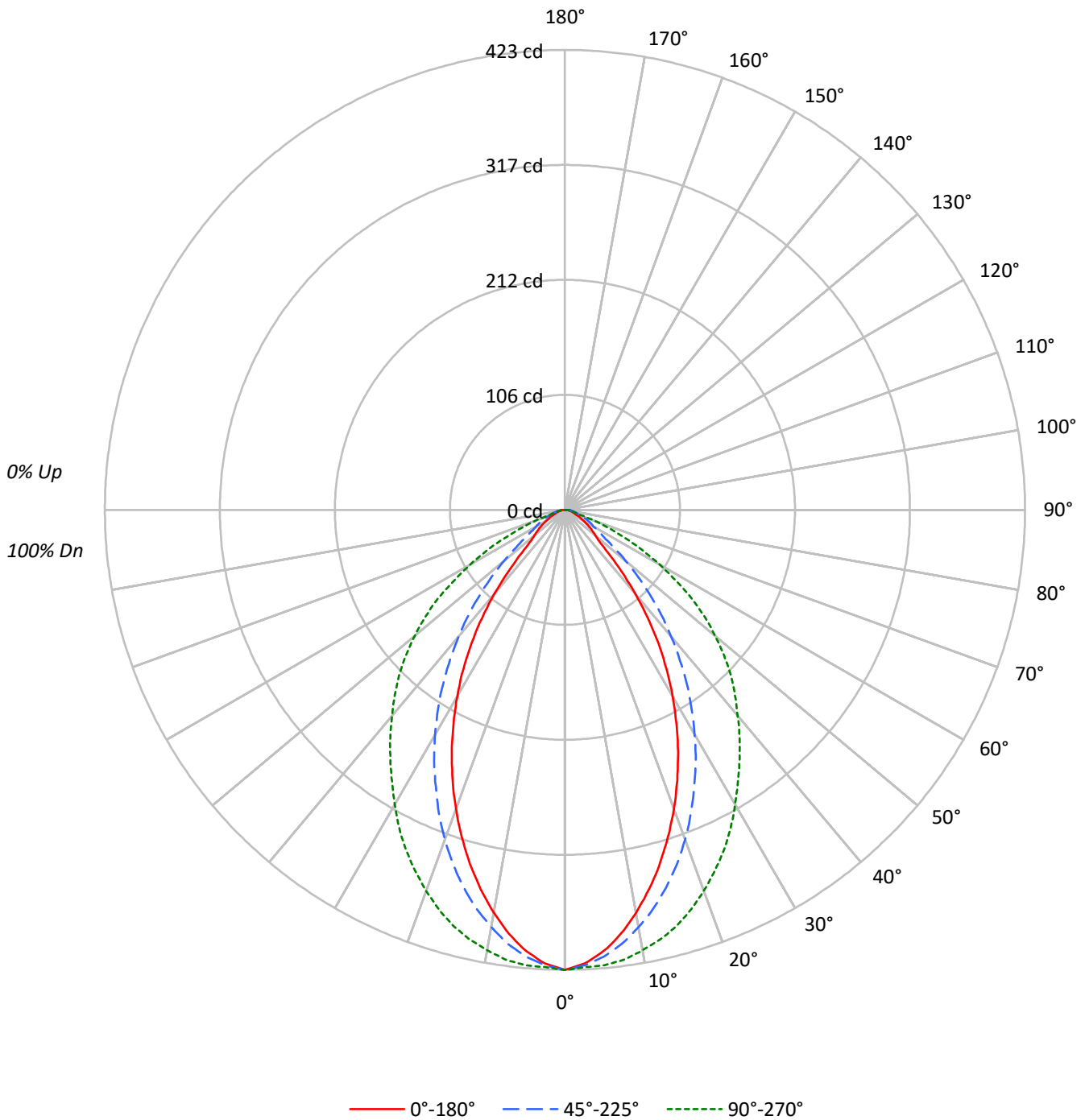
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 594.9 lumens  
Efficiency: N/A  
Efficacy: 30.4 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): 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

TEST NUMBER: P1060502

CATALOG NUMBER: S124RDR-S575D927-X4F0-XX-UDD-SVL-S

### Luminous Intensity Polar Plot





TEST NUMBER: P1060502

CATALOG NUMBER: S124RDR-S575D927-X4F0-XX-UDD-SVL-S

**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	105	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	67	75	70	66	73	68	65	63				63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57				57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51				51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43				43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°
0°	3643	3643	3643
5°	3522	3564	3634
10°	3290	3408	3596
15°	3004	3206	3532
20°	2683	2960	3418
25°	2337	2670	3284
30°	1970	2371	3110
35°	1573	2054	2942
40°	1132	1706	2778
45°	682	1344	2629
50°	490	974	2415
55°	413	655	2142
60°	334	518	1724
65°	263	471	1239
70°	232	393	665
75°	216	359	323
80°	213	372	293
85°	316	534	375

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2629 cd/sqm



TEST NUMBER: P1060502

CATALOG NUMBER: S124RDR-S575D927-X4F0-XX-UDD-SVL-S

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.8	6.5
10°-20°	101.8	17.1
20°-30°	132.1	22.2
30°-40°	126.9	21.3
40°-50°	94.2	15.8
50°-60°	57.7	9.7
60°-70°	28.0	4.7
70°-80°	10.7	1.8
80°-90°	4.8	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°	272.7	45.8
0°-40°	399.6	67.2
0°-60°	551.5	92.7
0°-90°	594.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	594.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	423	423	423	423	423	
5°	408	413	412	416	420	38
15°	337	347	360	381	396	94
25°	246	258	281	317	346	112
35°	150	163	195	242	280	93
45°	56	70	110	168	216	46
55°	28	28	44	98	143	25
65°	13	14	23	37	61	13
75°	6	10	11	10	10	7
85°	3	5	5	5	4	3
90°	0	0	0	0	0	



TEST NUMBER: P1060502

CATALOG NUMBER: S124RDR-S575D927-X4F0-XX-UDD-SVL-S

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	423.1	423.1	423.1	423.1	423.1
2.5°	417.7	422.6	419.3	420.4	421.0
5°	407.5	413.4	412.3	416.1	420.4
7.5°	393.5	400.5	402.7	410.2	417.2
10°	376.3	384.9	389.7	402.1	411.3
12.5°	357.4	366.6	375.7	392.4	404.8
15°	337.0	346.7	359.6	381.1	396.2
17.5°	315.4	326.2	341.8	367.7	385.4
20°	292.8	304.1	323.0	351.5	373.0
22.5°	269.7	281.5	302.5	334.3	359.6
25°	246.0	258.4	281.0	317.1	345.6
27.5°	221.8	234.7	260.5	298.8	330.0
30°	198.1	210.5	238.5	279.9	312.8
32.5°	173.9	186.8	216.9	260.5	296.1
35°	149.6	163.1	195.4	241.7	279.9
37.5°	124.9	139.4	173.3	223.4	263.8
40°	100.7	114.7	151.8	204.6	247.1
42.5°	77.0	92.1	131.3	185.7	231.5
45°	56.0	70.0	110.4	168.5	215.9
47.5°	42.0	50.6	91.0	152.3	198.6
50°	36.6	38.2	72.7	134.6	180.3
52.5°	31.8	32.8	56.5	115.2	162.0
55°	27.5	28.5	43.6	98.5	142.7
57.5°	23.1	24.2	35.0	82.4	120.6
60°	19.4	20.5	30.1	65.7	100.1
62.5°	16.1	16.7	26.9	50.1	80.2
65°	12.9	14.0	23.1	36.6	60.8
67.5°	10.8	11.8	18.8	25.3	42.5
70°	9.2	11.8	15.6	17.8	26.4
72.5°	7.5	10.8	12.9	12.4	12.4
75°	6.5	10.2	10.8	9.7	9.7
77.5°	5.4	9.2	8.6	8.1	7.5
80°	4.3	7.5	7.5	6.5	5.9
82.5°	3.8	5.9	5.9	5.9	4.8
85°	3.2	5.4	5.4	4.8	3.8
87.5°	2.2	4.3	4.8	4.3	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)