

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: P1060521

Luminaire Tested: S124RDR-S575D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060521  
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-S575D935-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: -

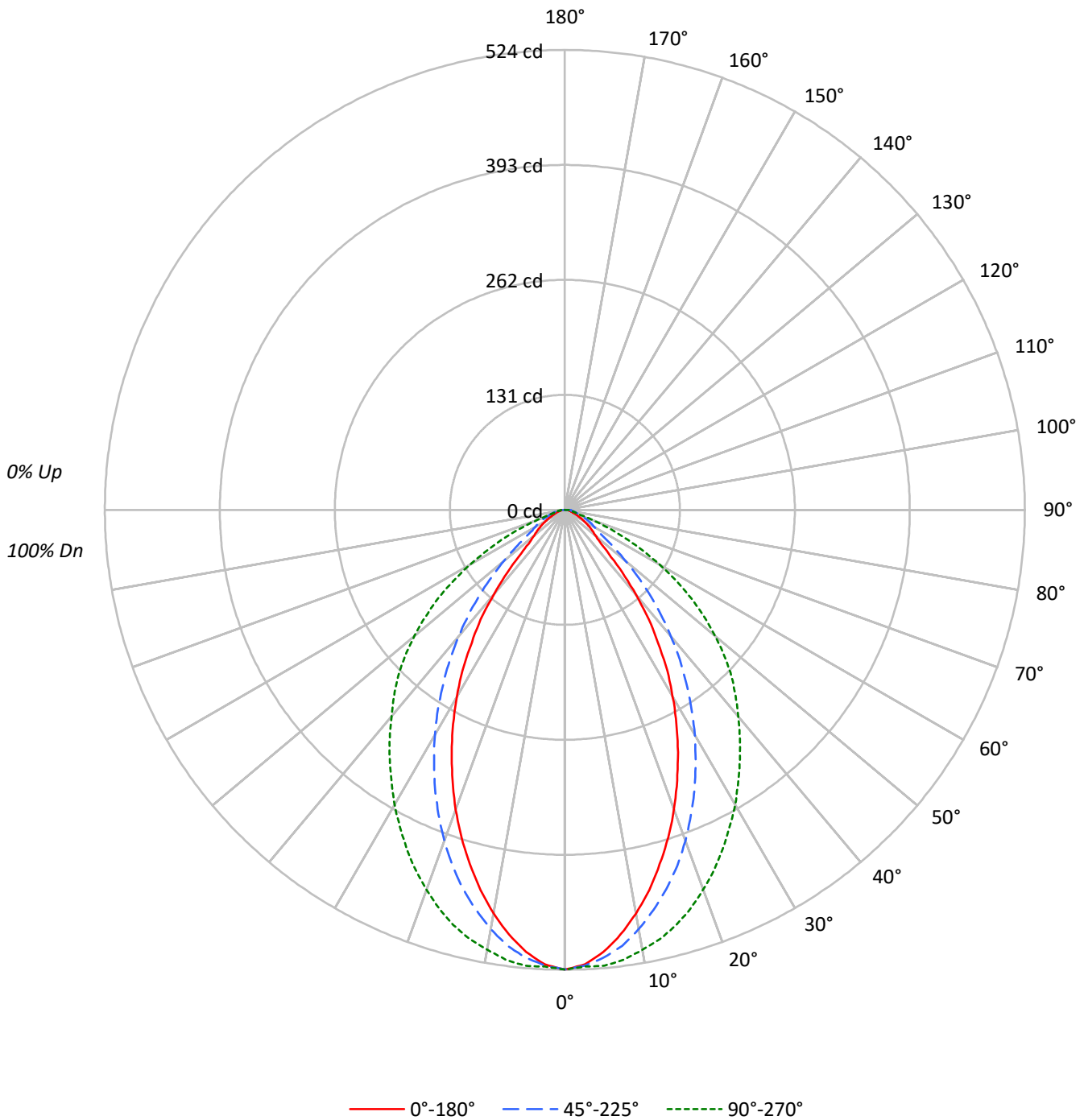
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 741.3 lumens  
Efficiency: N/A  
Efficacy: 37.8 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: P1060521

CATALOG NUMBER: S124RDR-S575D935-X4F0-XX-UDD-SVL-W

### Luminous Intensity Polar Plot





TEST NUMBER: P1060521

CATALOG NUMBER: S124RDR-S575D935-X4F0-XX-UDD-SVL-W

**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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	4510	4510	4510
5°	4370	4426	4507
10°	4083	4242	4452
15°	3725	3986	4367
20°	3330	3678	4220
25°	2897	3325	4048
30°	2444	2944	3858
35°	1944	2535	3654
40°	1414	2111	3453
45°	855	1667	3271
50°	611	1207	2994
55°	518	817	2644
60°	424	665	2137
65°	334	597	1538
70°	279	501	811
75°	253	466	409
80°	263	466	407
85°	346	692	464

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3271 cd/sqm



TEST NUMBER: P1060521

CATALOG NUMBER: S124RDR-S575D935-X4F0-XX-UDD-SVL-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	6.5
10°-20°	126.4	17.0
20°-30°	163.9	22.1
30°-40°	157.8	21.3
40°-50°	117.3	15.8
50°-60°	72.2	9.7
60°-70°	35.5	4.8
70°-80°	13.8	1.9
80°-90°	6.3	0.9
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°	338.4	45.7
0°-40°	496.2	66.9
0°-60°	685.7	92.5
0°-90°	741.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	741.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	506	513	512	517	521	47
15°	418	431	447	474	490	117
25°	305	321	350	394	426	139
35°	185	202	241	301	348	116
45°	70	87	137	211	269	58
55°	34	36	54	124	176	31
65°	16	18	29	47	76	17
75°	8	14	14	13	12	8
85°	4	6	7	7	5	4
90°	0	0	0	0	0	



TEST NUMBER: P1060521

CATALOG NUMBER: S124RDR-S575D935-X4F0-XX-UDD-SVL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	523.7	523.7	523.7	523.7	523.7
2.5°	518.5	524.3	519.6	520.2	520.8
5°	505.6	513.2	512.0	516.7	521.4
7.5°	488.0	496.8	500.9	510.3	516.7
10°	467.0	476.9	485.1	500.3	509.1
12.5°	443.6	455.3	467.0	487.5	500.9
15°	417.8	431.3	447.1	474.0	489.8
17.5°	391.5	404.9	425.4	456.4	476.3
20°	363.4	378.0	401.4	436.0	460.5
22.5°	334.1	349.9	375.7	414.9	444.2
25°	304.9	321.3	349.9	393.8	426.0
27.5°	275.6	291.4	322.4	371.6	406.7
30°	245.8	262.2	296.1	347.6	388.0
32.5°	217.1	232.3	268.6	324.8	367.5
35°	184.9	202.5	241.1	301.4	347.6
37.5°	157.4	173.2	214.8	278.0	327.7
40°	125.8	143.4	187.8	255.1	307.2
42.5°	96.6	114.1	162.1	232.3	287.9
45°	70.2	87.2	136.9	211.3	268.6
47.5°	53.3	63.2	112.4	190.8	246.9
50°	45.6	48.6	90.1	168.5	223.5
52.5°	40.4	41.5	70.2	146.3	200.1
55°	34.5	35.7	54.4	124.1	176.1
57.5°	29.3	29.8	43.9	103.0	150.4
60°	24.6	25.2	38.6	82.5	124.1
62.5°	20.5	21.1	34.5	63.8	98.9
65°	16.4	17.6	29.3	46.8	75.5
67.5°	13.5	15.8	24.6	32.8	52.7
70°	11.1	15.2	19.9	22.8	32.2
72.5°	9.4	14.0	17.0	16.4	15.8
75°	7.6	13.5	14.0	12.9	12.3
77.5°	6.4	11.7	11.7	10.5	9.9
80°	5.3	9.4	9.4	9.4	8.2
82.5°	4.7	7.6	8.2	8.2	6.4
85°	3.5	6.4	7.0	7.0	4.7
87.5°	2.3	5.9	6.4	5.9	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)