

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: P1060601

Luminaire Tested: S124RDR-S795D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060601  
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-S795D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

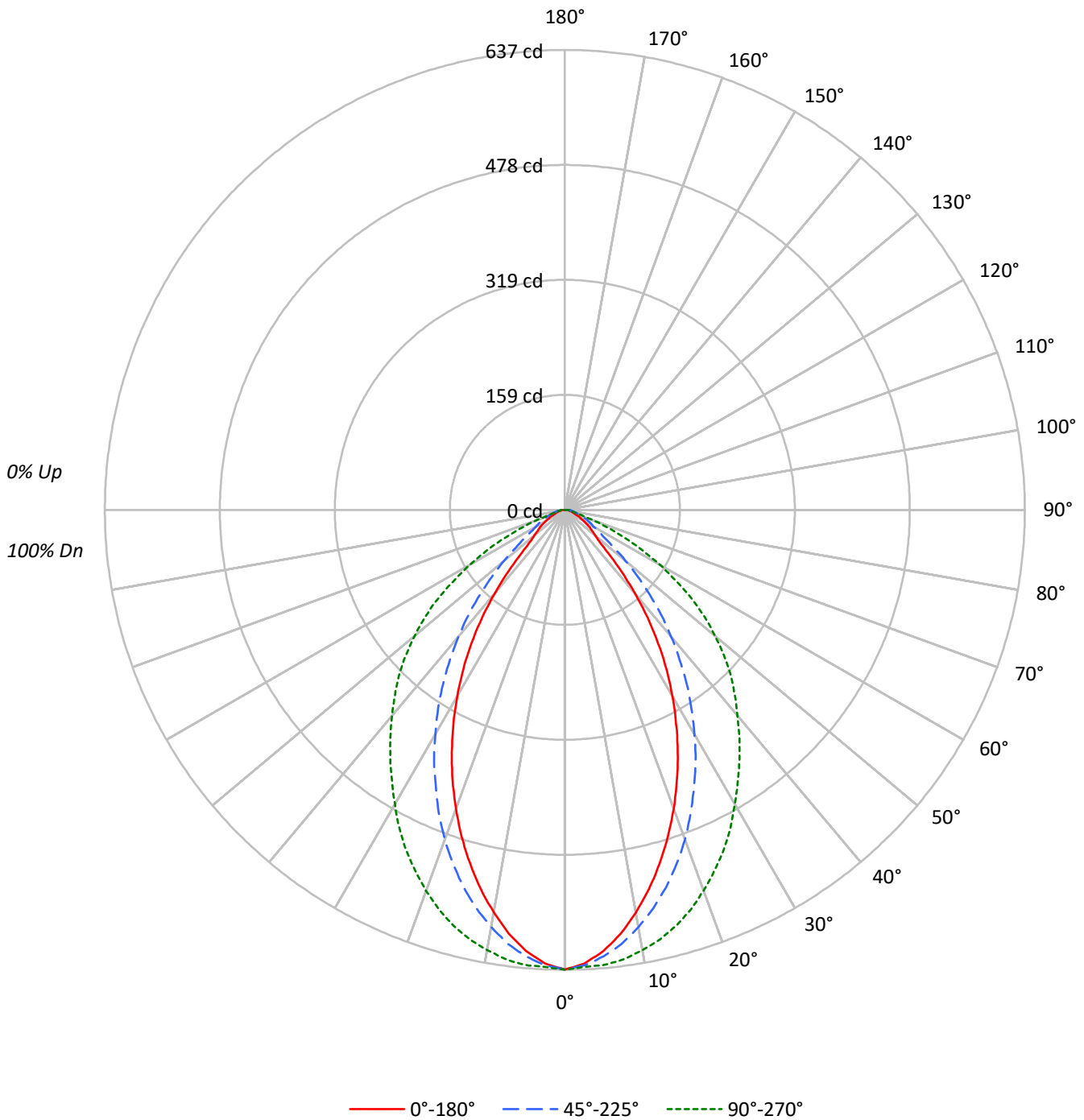
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 895.4 lumens  
Efficiency: N/A  
Efficacy: 34.7 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): 25.8  
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: P1060601

CATALOG NUMBER: S124RDR-S795D935-X4F0-XX-UDD-SVL-S

### Luminous Intensity Polar Plot





TEST NUMBER: P1060601

CATALOG NUMBER: S124RDR-S795D935-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	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	67	75	70	66	73	68	65	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	5484	5484	5484
5°	5301	5364	5470
10°	4952	5129	5413
15°	4522	4825	5316
20°	4038	4455	5145
25°	3518	4018	4942
30°	2964	3569	4680
35°	2367	3092	4429
40°	1703	2569	4181
45°	1027	2023	3957
50°	738	1466	3636
55°	620	985	3223
60°	503	782	2595
65°	395	709	1866
70°	347	592	1000
75°	323	539	486
80°	322	560	441
85°	484	800	563

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3957 cd/sqm



TEST NUMBER: P1060601

CATALOG NUMBER: S124RDR-S795D935-X4F0-XX-UDD-SVL-S

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.5	6.5
10°-20°	153.2	17.1
20°-30°	198.7	22.2
30°-40°	191.0	21.3
40°-50°	141.7	15.8
50°-60°	86.8	9.7
60°-70°	42.2	4.7
70°-80°	16.1	1.8
80°-90°	7.2	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°	410.4	45.8
0°-40°	601.4	67.2
0°-60°	830.0	92.7
0°-90°	895.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	895.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	613	622	621	626	633	57
15°	507	522	541	574	596	142
25°	370	389	423	477	520	169
35°	225	246	294	364	421	139
45°	84	105	166	254	325	70
55°	41	43	66	148	215	37
65°	19	21	35	55	92	20
75°	10	15	16	15	15	10
85°	5	8	8	7	6	5
90°	0	0	0	0	0	



TEST NUMBER: P1060601

CATALOG NUMBER: S124RDR-S795D935-X4F0-XX-UDD-SVL-S

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	636.8	636.8	636.8	636.8	636.8
2.5°	628.7	636.0	631.1	632.8	633.6
5°	613.3	622.2	620.6	626.3	632.8
7.5°	592.2	602.8	606.0	617.4	627.9
10°	566.3	579.3	586.6	605.2	619.0
12.5°	538.0	551.7	565.5	590.6	609.3
15°	507.2	521.8	541.2	573.6	596.3
17.5°	474.8	491.0	514.5	553.4	580.1
20°	440.7	457.8	486.1	529.1	561.5
22.5°	405.9	423.7	455.3	503.1	541.2
25°	370.3	388.9	422.9	477.2	520.1
27.5°	333.8	353.2	392.1	449.7	496.6
30°	298.1	316.8	358.9	421.3	470.7
32.5°	261.7	281.1	326.5	392.1	445.6
35°	225.2	245.5	294.1	363.8	421.3
37.5°	188.0	209.8	260.9	336.2	397.0
40°	151.5	172.6	228.5	307.9	371.9
42.5°	115.9	138.5	197.7	279.5	348.4
45°	84.3	105.3	166.1	253.6	324.9
47.5°	63.2	76.2	136.9	229.3	299.0
50°	55.1	57.5	109.4	202.5	271.4
52.5°	47.8	49.4	85.1	173.4	243.9
55°	41.3	42.9	65.6	148.3	214.7
57.5°	34.8	36.5	52.7	124.0	181.5
60°	29.2	30.8	45.4	98.8	150.7
62.5°	24.3	25.1	40.5	75.3	120.7
65°	19.4	21.1	34.8	55.1	91.6
67.5°	16.2	17.8	28.4	38.1	64.0
70°	13.8	17.8	23.5	26.7	39.7
72.5°	11.3	16.2	19.4	18.6	18.6
75°	9.7	15.4	16.2	14.6	14.6
77.5°	8.1	13.8	13.0	12.2	11.3
80°	6.5	11.3	11.3	9.7	8.9
82.5°	5.7	8.9	8.9	8.9	7.3
85°	4.9	8.1	8.1	7.3	5.7
87.5°	3.2	6.5	7.3	6.5	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)