

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060592

Luminaire Tested: S124RDRP-S795D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1060592  
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: S124RDRP-S795D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

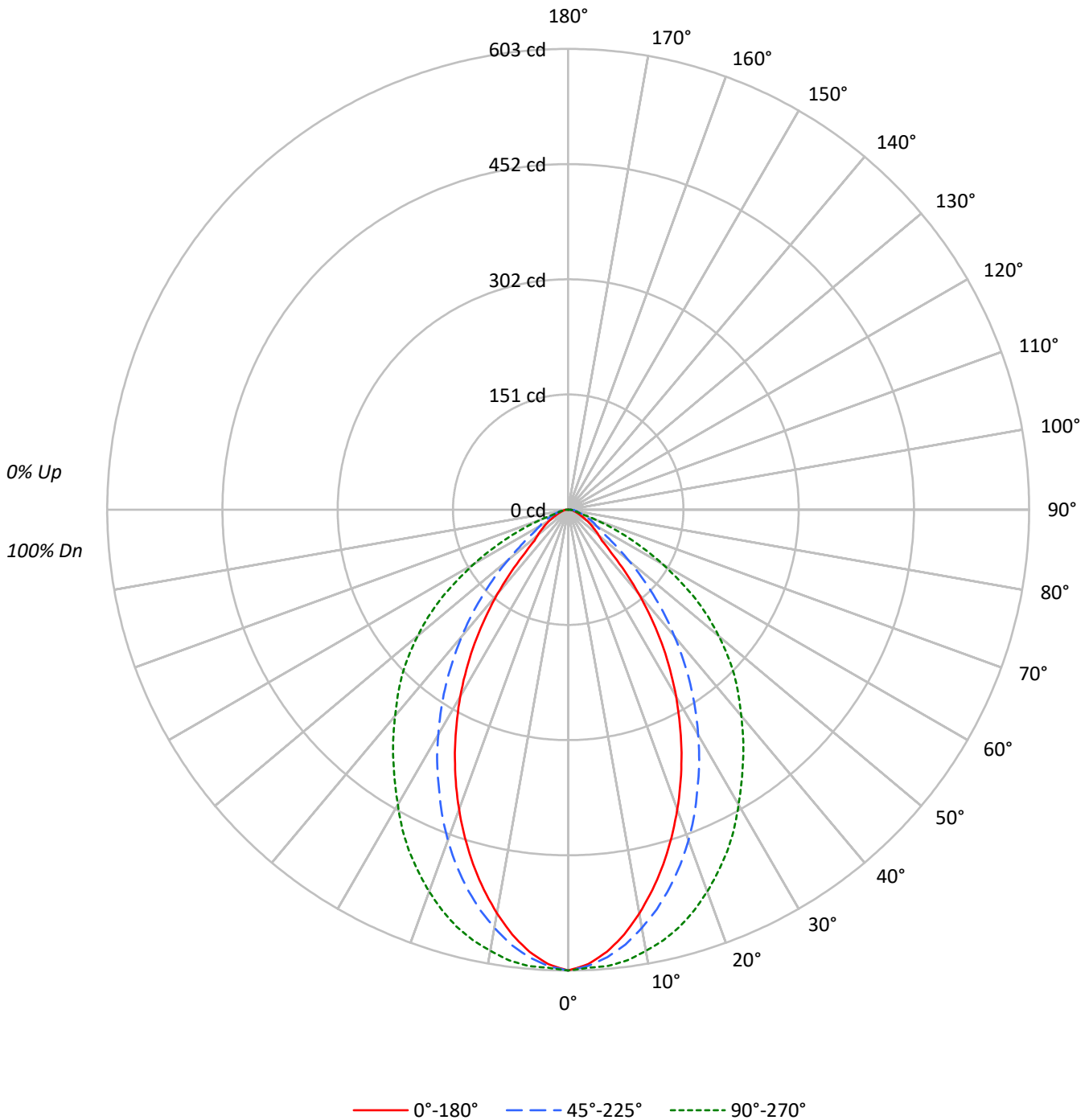
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 847.9 lumens  
Efficiency: N/A  
Efficacy: 32.9 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: P1060592

CATALOG NUMBER: S124RDRP-S795D930-X4F0-XX-UDD-SVL-S

### Luminous Intensity Polar Plot





TEST NUMBER: P1060592

CATALOG NUMBER: S124RDRP-S795D930-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	73	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	50	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°	5193	5193	5193
5°	5020	5080	5179
10°	4689	4856	5125
15°	4282	4569	5033
20°	3824	4218	4872
25°	3331	3805	4679
30°	2807	3380	4432
35°	2242	2928	4193
40°	1613	2431	3958
45°	972	1916	3746
50°	699	1388	3443
55°	587	932	3052
60°	475	741	2458
65°	375	672	1767
70°	327	559	947
75°	306	509	459
80°	302	531	417
85°	454	761	534

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3746 cd/sqm



TEST NUMBER: P1060592

CATALOG NUMBER: S124RDRP-S795D930-X4F0-XX-UDD-SVL-S

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.4	6.5
10°-20°	145.0	17.1
20°-30°	188.2	22.2
30°-40°	180.9	21.3
40°-50°	134.2	15.8
50°-60°	82.2	9.7
60°-70°	39.9	4.7
70°-80°	15.2	1.8
80°-90°	6.8	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°	388.6	45.8
0°-40°	569.5	67.2
0°-60°	785.9	92.7
0°-90°	847.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	581	589	588	593	599	54
15°	480	494	512	543	565	134
25°	351	368	400	452	492	160
35°	213	232	278	344	399	132
45°	80	100	157	240	308	66
55°	39	41	62	140	203	35
65°	18	20	33	52	87	19
75°	9	15	15	14	14	10
85°	5	8	8	7	5	4
90°	0	0	0	0	0	



TEST NUMBER: P1060592

CATALOG NUMBER: S124RDRP-S795D930-X4F0-XX-UDD-SVL-S

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	603.0	603.0	603.0	603.0	603.0
2.5°	595.3	602.2	597.6	599.2	599.9
5°	580.8	589.2	587.7	593.0	599.2
7.5°	560.8	570.8	573.9	584.6	594.6
10°	536.3	548.5	555.4	573.1	586.1
12.5°	509.4	522.5	535.5	559.3	576.9
15°	480.3	494.1	512.5	543.2	564.6
17.5°	449.6	464.9	487.2	524.0	549.3
20°	417.3	433.5	460.3	501.0	531.7
22.5°	384.4	401.2	431.2	476.4	512.5
25°	350.6	368.2	400.5	451.9	492.5
27.5°	316.1	334.5	371.3	425.8	470.3
30°	282.3	300.0	339.9	398.9	445.7
32.5°	247.8	266.2	309.2	371.3	422.0
35°	213.3	232.5	278.5	344.5	398.9
37.5°	178.0	198.7	247.0	318.4	375.9
40°	143.5	163.4	216.3	291.5	352.1
42.5°	109.7	131.2	187.2	264.7	329.9
45°	79.8	99.7	157.3	240.1	307.6
47.5°	59.8	72.1	129.7	217.1	283.1
50°	52.2	54.5	103.6	191.8	257.0
52.5°	45.3	46.8	80.6	164.2	230.9
55°	39.1	40.7	62.1	140.4	203.3
57.5°	33.0	34.5	49.9	117.4	171.8
60°	27.6	29.2	43.0	93.6	142.7
62.5°	23.0	23.8	38.4	71.3	114.3
65°	18.4	19.9	33.0	52.2	86.7
67.5°	15.3	16.9	26.9	36.1	60.6
70°	13.0	16.9	22.2	25.3	37.6
72.5°	10.7	15.3	18.4	17.6	17.6
75°	9.2	14.6	15.3	13.8	13.8
77.5°	7.7	13.0	12.3	11.5	10.7
80°	6.1	10.7	10.7	9.2	8.4
82.5°	5.4	8.4	8.4	8.4	6.9
85°	4.6	7.7	7.7	6.9	5.4
87.5°	3.1	6.1	6.9	6.1	3.8
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1060592  
 CATALOG NUMBER: S124RDRP-S795D930-X4F0-XX-UDD-SVL-S

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	5.53	6.87	5.90	7.18	7.50	14.64	15.97	15.00	16.29	16.60
	3H	6.58	7.77	6.96	8.10	8.46	15.14	16.33	15.52	16.66	17.02
	4H	7.09	8.20	7.49	8.55	8.93	15.15	16.26	15.55	16.61	16.99
	6H	7.54	8.56	7.96	8.93	9.32	15.15	16.17	15.56	16.54	16.93
	8H	7.73	8.70	8.16	9.09	9.49	15.15	16.11	15.58	16.50	16.91
	12H	7.95	8.87	8.38	9.25	9.68	15.15	16.07	15.58	16.45	16.88
4H	2H	6.63	7.74	7.03	8.09	8.47	14.53	15.63	14.93	15.98	16.37
	3H	7.90	8.80	8.31	9.21	9.61	15.10	16.01	15.52	16.41	16.82
	4H	8.60	9.41	9.04	9.83	10.28	15.15	15.96	15.58	16.38	16.82
	6H	9.23	9.93	9.70	10.38	10.84	15.20	15.90	15.66	16.35	16.81
	8H	9.48	10.13	9.95	10.58	11.05	15.22	15.87	15.69	16.32	16.79
	12H	9.76	10.33	10.24	10.82	11.29	15.25	15.83	15.74	16.31	16.79
8H	4H	9.03	9.68	9.50	10.13	10.60	15.10	15.75	15.57	16.20	16.67
	6H	9.90	10.44	10.41	10.93	11.42	15.19	15.73	15.69	16.22	16.70
	8H	10.31	10.79	10.83	11.30	11.80	15.25	15.73	15.77	16.25	16.74
	12H	10.79	11.21	11.30	11.71	12.28	15.35	15.78	15.87	16.27	16.84
12H	4H	9.07	9.65	9.56	10.13	10.61	15.07	15.65	15.56	16.13	16.61
	6H	10.01	10.50	10.54	11.01	11.50	15.17	15.65	15.69	16.17	16.66
	8H	10.53	10.96	11.05	11.45	12.02	15.28	15.70	15.79	16.20	16.77