

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: P1060546

Luminaire Tested: S124RDR-S795D830-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060546  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S795D830-X4F0-XX-UDD-SVL-B  
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

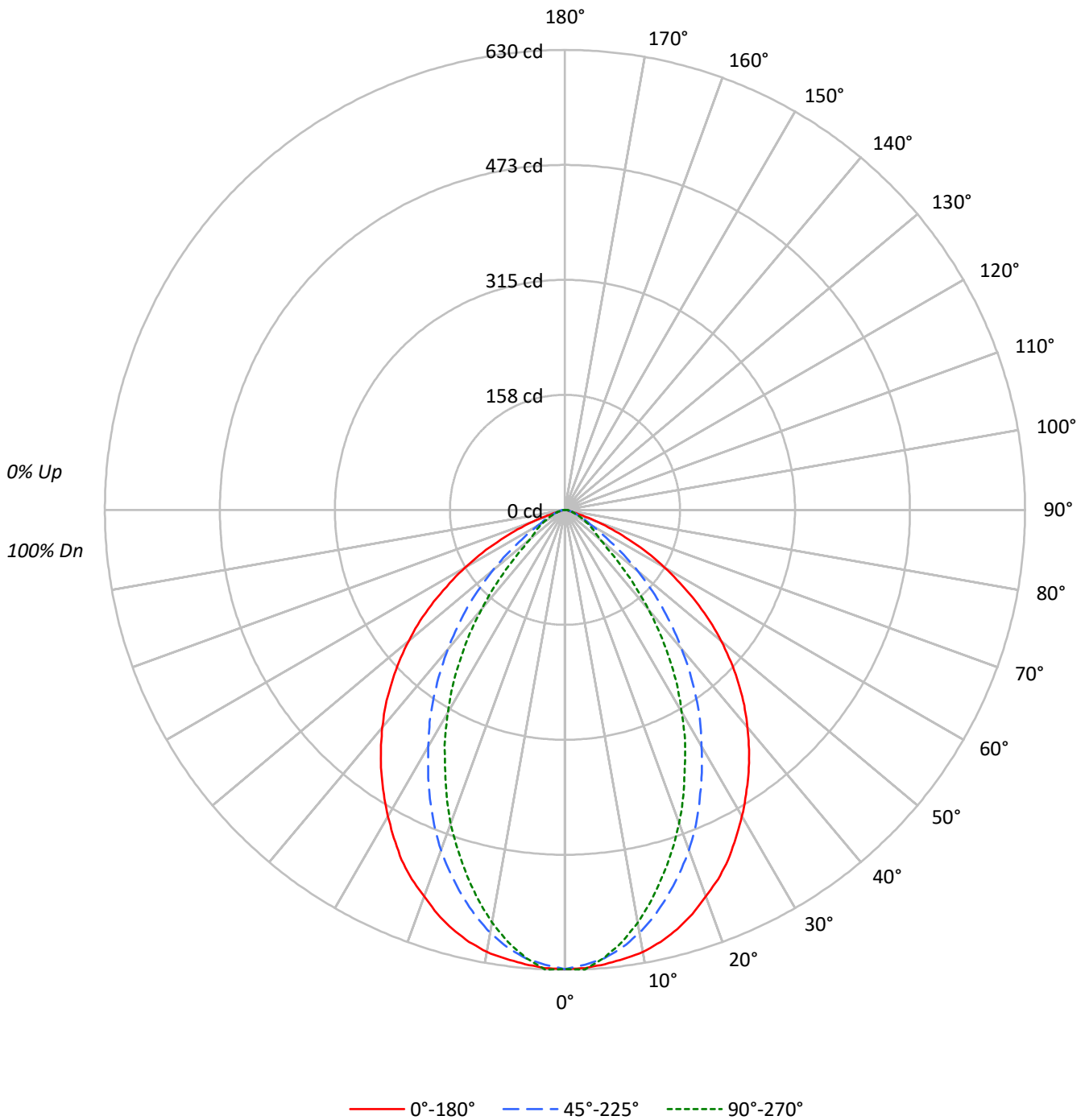
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 927.6 lumens  
Efficiency: N/A  
Efficacy: 36.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02  
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: P1060546

CATALOG NUMBER: S124RDR-S795D830-X4F0-XX-UDD-SVL-B

### Luminous Intensity Polar Plot





TEST NUMBER: P1060546

CATALOG NUMBER: S124RDR-S795D830-X4F0-XX-UDD-SVL-B

**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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90				90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				80
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71				71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				63
5	84	74	66	61	82	73	66	60	71	65	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	48	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43				43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°
0°	5418	5418	5418
5°	5400	5331	5324
10°	5378	5145	5021
15°	5301	4867	4621
20°	5165	4547	4190
25°	5026	4151	3687
30°	4820	3718	3181
35°	4611	3288	2627
40°	4373	2799	1992
45°	4089	2288	1338
50°	3739	1734	831
55°	3286	1144	706
60°	2716	703	580
65°	1968	542	469
70°	1070	403	358
75°	236	296	323
80°	174	218	263
85°	178	178	267

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4089 cd/sqm



TEST NUMBER: P1060546

CATALOG NUMBER: S124RDR-S795D830-X4F0-XX-UDD-SVL-B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.3	6.3
10°-20°	154.8	16.7
20°-30°	205.1	22.1
30°-40°	203.6	21.9
40°-50°	156.6	16.9
50°-60°	93.4	10.1
60°-70°	42.4	4.6
70°-80°	11.0	1.2
80°-90°	2.4	0.3
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°	418.2	45.1
0°-40°	621.7	67.0
0°-60°	871.7	94.0
0°-90°	927.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	927.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	625	626	617	617	616	59
15°	595	580	546	527	518	167
25°	529	491	437	400	388	243
35°	439	384	313	265	250	274
45°	336	270	188	131	110	259
55°	219	156	76	48	47	195
65°	97	58	27	23	23	97
75°	7	9	9	10	10	15
85°	2	2	2	3	3	2
90°	0	0	0	0	0	



TEST NUMBER: P1060546

CATALOG NUMBER: S124RDR-S795D830-X4F0-XX-UDD-SVL-B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	629.2	629.2	629.2	629.2	629.2
2.5°	628.3	629.2	623.8	628.3	630.0
5°	624.7	625.6	616.7	616.7	615.9
7.5°	620.3	618.5	604.3	599.0	597.3
10°	615.0	608.8	588.4	577.8	574.2
12.5°	606.1	596.4	568.9	553.8	547.6
15°	594.6	579.5	545.9	527.2	518.4
17.5°	580.4	561.8	521.9	498.0	488.3
20°	563.6	538.8	496.2	466.1	457.2
22.5°	547.6	516.6	467.9	433.3	423.6
25°	529.0	490.9	436.9	400.5	388.1
27.5°	506.9	466.1	405.8	368.6	356.2
30°	484.7	439.5	373.9	335.0	319.9
32.5°	461.7	412.0	344.7	300.4	286.2
35°	438.6	383.7	312.8	265.0	249.9
37.5°	413.8	355.3	280.9	231.3	214.4
40°	389.0	327.9	249.0	198.5	177.2
42.5°	363.3	299.5	218.0	164.8	143.6
45°	335.8	270.3	187.9	131.1	109.9
47.5°	308.4	242.8	157.7	98.4	78.9
50°	279.1	213.6	129.4	71.8	62.0
52.5°	249.9	185.2	101.0	55.8	53.2
55°	218.9	156.0	76.2	47.9	47.0
57.5°	187.0	129.4	54.9	41.6	39.9
60°	157.7	104.6	40.8	35.4	33.7
62.5°	127.6	78.9	33.7	29.2	27.5
65°	96.6	57.6	26.6	23.0	23.0
67.5°	70.0	39.0	21.3	18.6	17.7
70°	42.5	23.9	16.0	15.1	14.2
72.5°	21.3	14.2	12.4	11.5	11.5
75°	7.1	8.9	8.9	9.7	9.7
77.5°	5.3	6.2	6.2	7.1	7.1
80°	3.5	4.4	4.4	5.3	5.3
82.5°	2.7	2.7	3.5	3.5	4.4
85°	1.8	1.8	1.8	2.7	2.7
87.5°	0.9	0.9	0.9	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)