

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: P1060595

Luminaire Tested: S124RDR-S795D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

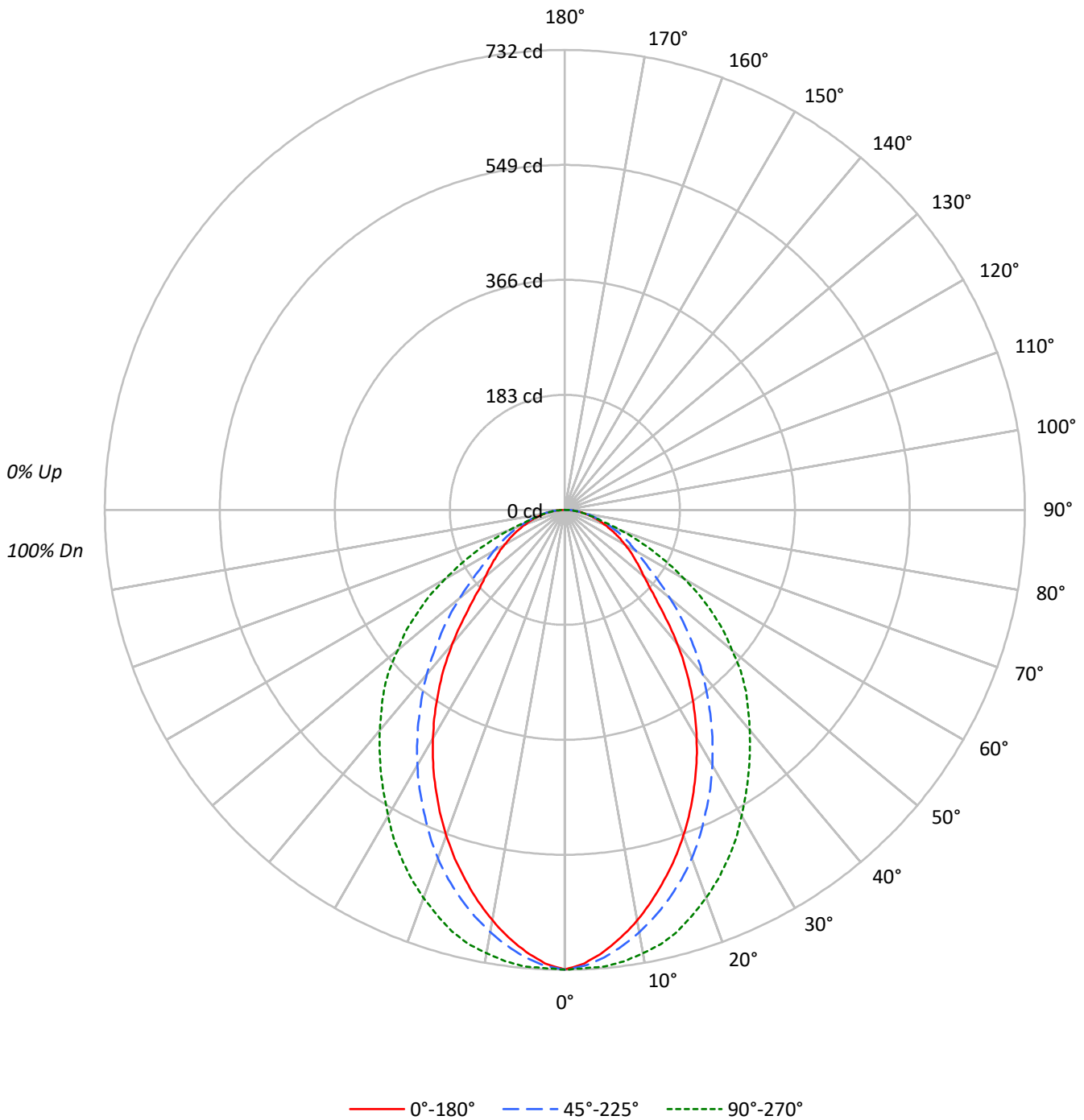
Test Method: LM-79-2019  
Report Number: P1060595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S795D930-X4F0-XX-UDD-WVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE 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: 1332.0 lumens  
Efficiency: N/A  
Efficacy: 51.6 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1  
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

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### Luminous Intensity Polar Plot





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**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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75				75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65				65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57				57
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50				50
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45				45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41				41
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37				37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34				34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31				31

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

	0°	45°	90°
0°	6301	6301	6301
5°	6105	6185	6305
10°	5801	5969	6263
15°	5443	5709	6188
20°	5053	5411	6023
25°	4627	5042	5829
30°	4171	4667	5590
35°	3676	4256	5361
40°	3130	3837	5147
45°	2540	3390	4959
50°	2198	2918	4645
55°	2037	2476	4306
60°	1901	2232	3777
65°	1781	2095	3142
70°	1662	1931	2374
75°	1580	1787	1710
80°	1483	1636	1443
85°	1363	1512	1136

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4959 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.6	5.1
10°-20°	181.6	13.6
20°-30°	247.9	18.6
30°-40°	259.8	19.5
40°-50°	224.8	16.9
50°-60°	168.9	12.7
60°-70°	108.9	8.2
70°-80°	55.9	4.2
80°-90°	16.7	1.3
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°	497.0	37.3
0°-40°	756.8	56.8
0°-60°	1150.5	86.4
0°-90°	1332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1332.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	706	717	716	721	729	66
15°	610	626	640	670	694	171
25°	487	505	531	572	614	223
35°	350	370	405	459	510	218
45°	209	230	278	347	407	164
55°	136	140	165	235	287	122
65°	87	89	103	124	154	87
75°	48	53	54	53	51	50
85°	14	16	15	15	12	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	731.7	731.7	731.7	731.7	731.7
2.5°	722.5	731.7	726.3	727.8	730.1
5°	706.3	717.1	715.5	720.9	729.4
7.5°	686.4	697.9	700.2	712.5	724.8
10°	663.4	676.4	682.6	701.0	716.3
12.5°	638.1	651.9	662.6	685.6	707.9
15°	610.5	625.8	640.4	669.5	694.1
17.5°	582.1	597.4	616.6	648.8	676.4
20°	551.4	568.3	590.5	624.3	657.3
22.5°	520.0	537.6	561.4	598.2	636.6
25°	487.0	505.4	530.7	572.1	613.5
27.5°	454.0	472.4	500.8	544.5	589.8
30°	419.5	438.7	469.4	516.9	562.2
32.5°	385.0	405.7	437.2	487.8	536.1
35°	349.7	369.7	404.9	458.6	510.0
37.5°	314.4	335.2	372.7	430.3	483.9
40°	278.4	299.9	341.3	401.9	457.9
42.5°	242.4	265.4	309.1	372.7	431.8
45°	208.6	230.1	278.4	346.7	407.2
47.5°	183.3	197.9	247.7	321.3	379.6
50°	164.1	171.8	217.8	293.7	346.7
52.5°	149.6	154.9	190.2	263.8	319.8
55°	135.7	140.3	164.9	235.4	286.8
57.5°	123.5	125.8	145.7	207.8	255.4
60°	110.4	112.7	129.6	177.9	219.3
62.5°	98.9	100.5	116.6	149.6	186.4
65°	87.4	89.0	102.8	124.2	154.2
67.5°	76.7	79.0	89.7	101.2	122.7
70°	66.0	70.6	76.7	82.1	94.3
72.5°	56.8	61.4	64.4	66.0	66.7
75°	47.5	52.9	53.7	52.9	51.4
77.5°	38.3	42.9	42.9	41.4	39.9
80°	29.9	33.7	33.0	31.4	29.1
82.5°	22.2	24.5	23.8	22.2	19.9
85°	13.8	16.1	15.3	14.6	11.5
87.5°	6.9	9.2	8.4	7.7	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)