

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: P1060467

Luminaire Tested: S124RDR-S575D830-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060467  
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-S575D830-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

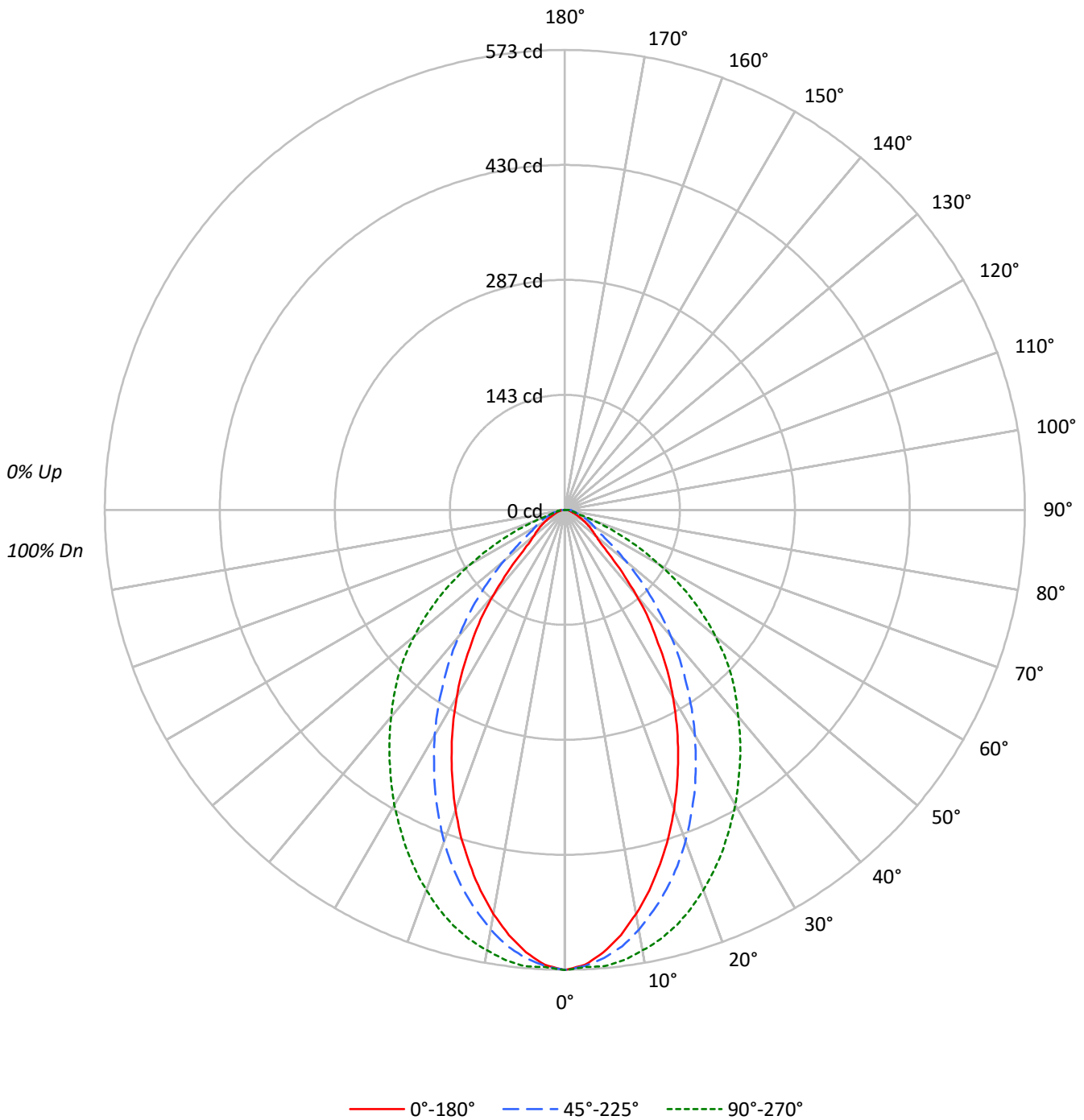
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 811.4 lumens  
Efficiency: N/A  
Efficacy: 41.4 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: P1060467

CATALOG NUMBER: S124RDR-S575D830-X4F0-XX-UDD-SVL-W

### Luminous Intensity Polar Plot





TEST NUMBER: P1060467

CATALOG NUMBER: S124RDR-S575D830-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	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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63				63
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57				57
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51				51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43				43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°
0°	4937	4937	4937
5°	4784	4845	4934
10°	4470	4644	4873
15°	4078	4363	4780
20°	3645	4027	4620
25°	3172	3640	4431
30°	2676	3223	4223
35°	2128	2774	4000
40°	1548	2311	3780
45°	936	1825	3580
50°	670	1322	3278
55°	567	895	2895
60°	463	729	2339
65°	365	652	1683
70°	307	549	886
75°	276	512	449
80°	288	506	446
85°	375	761	504

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3580 cd/sqm



TEST NUMBER: P1060467

CATALOG NUMBER: S124RDR-S575D830-X4F0-XX-UDD-SVL-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.8	6.5
10°-20°	138.3	17.0
20°-30°	179.4	22.1
30°-40°	172.7	21.3
40°-50°	128.5	15.8
50°-60°	79.0	9.7
60°-70°	38.8	4.8
70°-80°	15.1	1.9
80°-90°	6.9	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°	370.5	45.7
0°-40°	543.2	66.9
0°-60°	750.6	92.5
0°-90°	811.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	811.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	554	562	560	566	571	51
15°	457	472	489	519	536	128
25°	334	352	383	431	466	153
35°	202	222	264	330	380	127
45°	77	95	150	231	294	64
55°	38	39	60	136	193	34
65°	18	19	32	51	83	18
75°	8	15	15	14	14	9
85°	4	7	8	8	5	4
90°	0	0	0	0	0	



TEST NUMBER: P1060467

CATALOG NUMBER: S124RDR-S575D830-X4F0-XX-UDD-SVL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	573.3	573.3	573.3	573.3	573.3
2.5°	567.6	574.0	568.9	569.5	570.1
5°	553.5	561.8	560.5	565.7	570.8
7.5°	534.3	543.9	548.4	558.6	565.7
10°	511.2	522.1	531.1	547.7	557.3
12.5°	485.6	498.4	511.2	533.6	548.4
15°	457.4	472.1	489.4	518.9	536.2
17.5°	428.6	443.3	465.7	499.7	521.5
20°	397.8	413.8	439.5	477.2	504.2
22.5°	365.8	383.1	411.3	454.2	486.2
25°	333.8	351.7	383.1	431.1	466.4
27.5°	301.7	319.0	353.0	406.8	445.2
30°	269.1	287.0	324.1	380.5	424.7
32.5°	237.7	254.3	294.0	355.5	402.3
35°	202.4	221.6	263.9	329.9	380.5
37.5°	172.3	189.6	235.1	304.3	358.7
40°	137.7	156.9	205.6	279.3	336.3
42.5°	105.7	124.9	177.4	254.3	315.2
45°	76.9	95.4	149.9	231.3	294.0
47.5°	58.3	69.2	123.0	208.8	270.3
50°	50.0	53.2	98.7	184.5	244.7
52.5°	44.2	45.5	76.9	160.2	219.1
55°	37.8	39.1	59.6	135.8	192.8
57.5°	32.0	32.7	48.0	112.7	164.6
60°	26.9	27.5	42.3	90.3	135.8
62.5°	22.4	23.1	37.8	69.8	108.3
65°	17.9	19.2	32.0	51.2	82.6
67.5°	14.7	17.3	26.9	35.9	57.7
70°	12.2	16.7	21.8	25.0	35.2
72.5°	10.2	15.4	18.6	17.9	17.3
75°	8.3	14.7	15.4	14.1	13.5
77.5°	7.0	12.8	12.8	11.5	10.9
80°	5.8	10.2	10.2	10.2	9.0
82.5°	5.1	8.3	9.0	9.0	7.0
85°	3.8	7.0	7.7	7.7	5.1
87.5°	2.6	6.4	7.0	6.4	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)