

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: P1060500

Luminaire Tested: S124RDR-S575D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-75)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S575D927-X4F0-XX-UDD-BVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

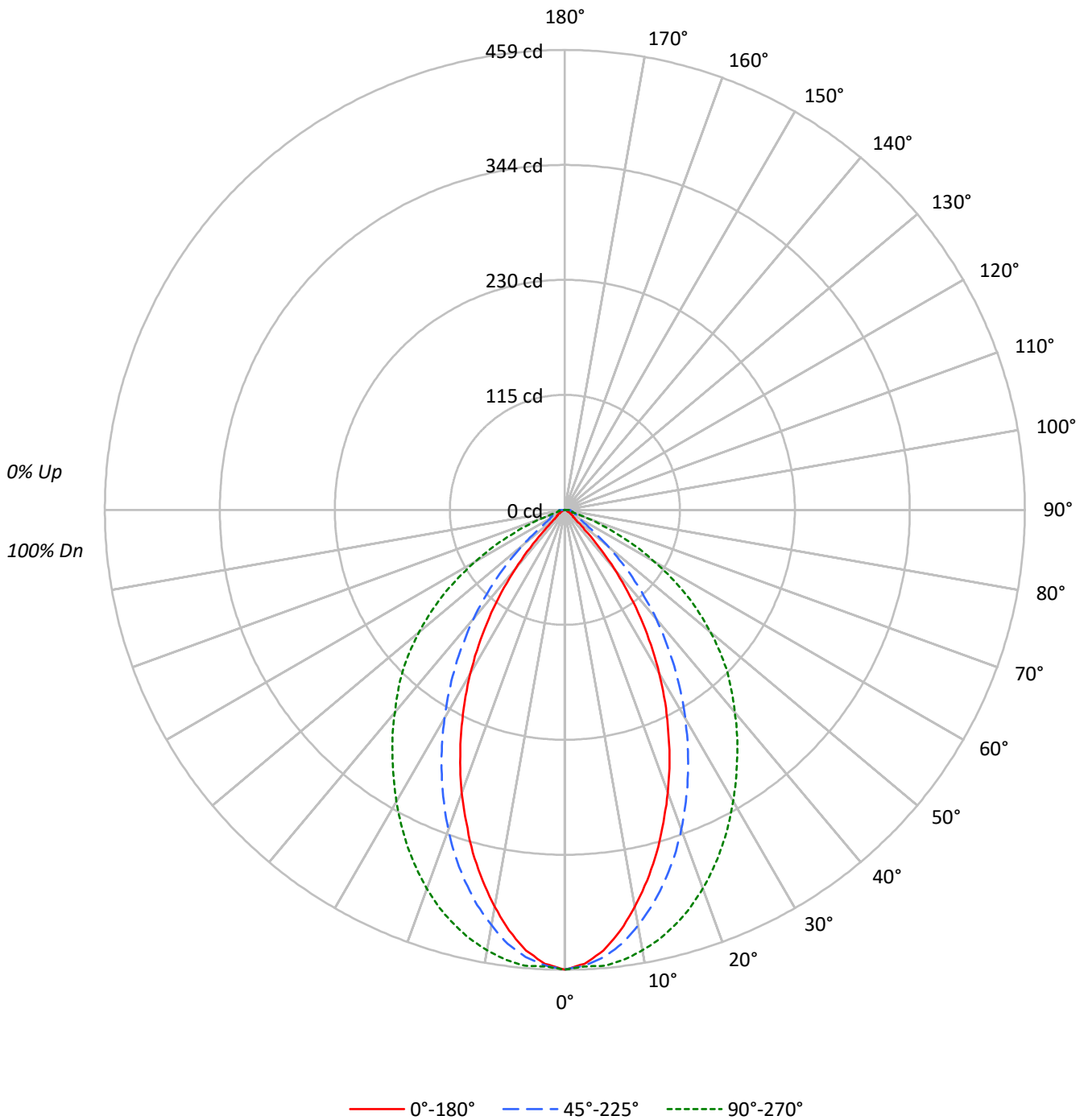
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 578.2 lumens  
Efficiency: N/A  
Efficacy: 29.5 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97  
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: P1060500

CATALOG NUMBER: S124RDR-S575D927-X4F0-XX-UDD-BVL-W

### Luminous Intensity Polar Plot





TEST NUMBER: P1060500

CATALOG NUMBER: S124RDR-S575D927-X4F0-XX-UDD-BVL-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				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72				
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65				
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59				
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54				
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49				
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45				
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39				

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

	0°	45°	90°
0°	3951	3951	3951
5°	3817	3873	3948
10°	3518	3682	3903
15°	3159	3423	3816
20°	2754	3114	3687
25°	2323	2763	3525
30°	1874	2388	3341
35°	1387	1998	3154
40°	860	1592	2967
45°	341	1161	2794
50°	151	729	2540
55°	122	380	2223
60°	83	288	1772
65°	55	285	1218
70°	55	257	569
75°	73	250	250
80°	109	293	293
85°	217	583	425

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2794 cd/sqm



TEST NUMBER: P1060500

CATALOG NUMBER: S124RDR-S575D927-X4F0-XX-UDD-BVL-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.1	7.3
10°-20°	108.6	18.8
20°-30°	137.1	23.7
30°-40°	125.8	21.8
40°-50°	85.7	14.8
50°-60°	46.7	8.1
60°-70°	20.2	3.5
70°-80°	7.4	1.3
80°-90°	4.7	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°	287.8	49.8
0°-40°	413.6	71.5
0°-60°	546.0	94.4
0°-90°	578.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	578.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	442	448	448	453	457	41
15°	354	367	384	411	428	99
25°	244	262	291	337	371	112
35°	132	151	190	250	300	81
45°	28	47	95	169	229	26
55°	8	9	25	93	148	7
65°	3	4	14	29	60	3
75°	2	7	8	8	8	2
85°	2	5	6	6	4	2
90°	0	0	0	0	0	



TEST NUMBER: P1060500

CATALOG NUMBER: S124RDR-S575D927-X4F0-XX-UDD-BVL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	458.8	458.8	458.8	458.8	458.8
2.5°	453.4	458.8	455.1	456.1	456.1
5°	441.6	447.5	448.1	452.9	456.7
7.5°	423.8	432.4	436.8	446.4	452.9
10°	402.3	412.5	421.1	437.8	446.4
12.5°	379.1	391.0	403.9	426.0	438.4
15°	354.4	366.7	384.0	411.4	428.1
17.5°	326.9	342.0	363.0	395.8	416.3
20°	300.5	315.6	339.8	377.0	402.3
22.5°	273.0	288.7	315.6	357.0	387.2
25°	244.5	261.7	290.8	337.1	371.0
27.5°	216.5	234.8	265.5	316.1	353.8
30°	188.5	206.8	240.2	294.6	336.0
32.5°	159.9	178.8	214.9	272.0	317.7
35°	131.9	151.3	190.1	250.4	300.0
37.5°	103.4	123.9	165.3	229.4	282.2
40°	76.5	96.9	141.6	208.4	263.9
42.5°	51.2	71.6	117.4	187.9	246.6
45°	28.0	46.9	95.3	169.1	229.4
47.5°	15.1	25.8	73.8	150.8	210.0
50°	11.3	14.0	54.4	131.4	189.6
52.5°	9.7	10.8	37.7	110.9	169.1
55°	8.1	8.6	25.3	93.2	148.1
57.5°	6.5	7.0	18.8	75.4	125.5
60°	4.8	5.9	16.7	58.2	102.9
62.5°	3.8	4.8	15.6	42.5	81.3
65°	2.7	3.8	14.0	29.1	59.8
67.5°	2.7	4.3	11.8	18.8	40.4
70°	2.2	5.9	10.2	12.4	22.6
72.5°	2.2	6.5	8.6	8.6	8.6
75°	2.2	7.0	7.5	7.5	7.5
77.5°	2.2	6.5	7.0	6.5	6.5
80°	2.2	5.9	5.9	5.9	5.9
82.5°	2.2	5.4	5.9	5.9	4.8
85°	2.2	4.8	5.9	5.9	4.3
87.5°	1.6	4.8	5.4	5.4	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)