

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: P1060515

Luminaire Tested: S124RDR-S575D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060515  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S575D930-X4F0-XX-UDD-WVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

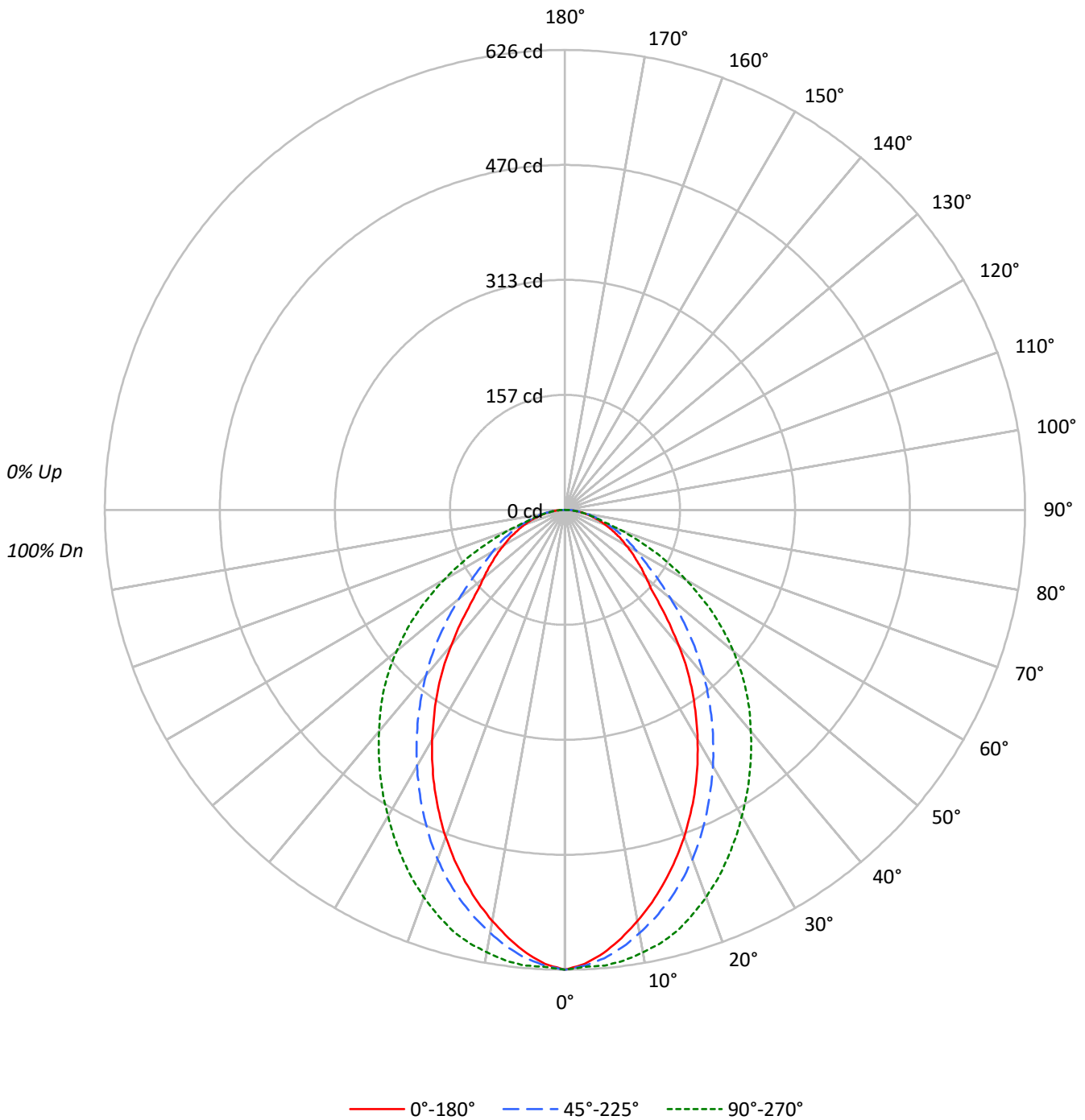
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1148.5 lumens  
Efficiency: N/A  
Efficacy: 58.6 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11  
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: P1060515

CATALOG NUMBER: S124RDR-S575D930-X4F0-XX-UDD-WVL-W

### Luminous Intensity Polar Plot





TEST NUMBER: P1060515

CATALOG NUMBER: S124RDR-S575D930-X4F0-XX-UDD-WVL-W

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75																				
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65																				
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57																				
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50																				
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45																				
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40																				
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37																				
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33																				
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31																				

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

	0°	45°	90°
0°	5390	5390	5390
5°	5233	5295	5382
10°	4969	5114	5347
15°	4671	4899	5284
20°	4345	4640	5142
25°	3984	4332	4973
30°	3591	4004	4786
35°	3179	3662	4605
40°	2702	3306	4421
45°	2213	2920	4250
50°	1937	2508	4000
55°	1779	2162	3701
60°	1650	1946	3262
65°	1547	1828	2730
70°	1450	1674	2049
75°	1364	1530	1494
80°	1265	1398	1265
85°	1146	1363	1097

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4250 cd/sqm



TEST NUMBER: P1060515

CATALOG NUMBER: S124RDR-S575D930-X4F0-XX-UDD-WVL-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.8	5.0
10°-20°	155.6	13.6
20°-30°	212.7	18.5
30°-40°	223.6	19.5
40°-50°	194.0	16.9
50°-60°	146.4	12.7
60°-70°	94.9	8.3
70°-80°	48.7	4.2
80°-90°	14.7	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°	426.2	37.1
0°-40°	649.8	56.6
0°-60°	990.2	86.2
0°-90°	1148.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1148.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	605	614	613	618	623	57
15°	524	537	550	574	593	147
25°	419	434	456	491	523	192
35°	302	319	348	395	438	188
45°	182	199	240	300	349	143
55°	118	122	144	204	246	107
65°	76	78	90	109	134	76
75°	41	46	46	46	45	44
85°	12	14	14	13	11	13
90°	0	0	0	0	0	



TEST NUMBER: P1060515

CATALOG NUMBER: S124RDR-S575D930-X4F0-XX-UDD-WVL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	625.9	625.9	625.9	625.9	625.9
2.5°	618.7	626.5	620.9	622.0	622.6
5°	605.4	613.7	612.6	617.6	622.6
7.5°	588.2	598.2	600.4	610.4	618.7
10°	568.3	579.4	584.9	601.0	611.5
12.5°	547.3	558.3	568.3	588.8	603.8
15°	524.0	536.7	549.5	574.4	592.7
17.5°	499.6	512.9	529.0	556.1	577.7
20°	474.1	487.4	506.3	535.6	561.1
22.5°	447.0	462.0	481.9	513.5	543.4
25°	419.3	434.3	455.9	490.8	523.4
27.5°	390.5	406.0	429.3	468.1	502.9
30°	361.1	377.8	402.7	443.7	481.3
32.5°	331.2	349.0	375.5	419.3	460.3
35°	302.4	319.0	348.4	394.9	438.1
37.5°	272.5	289.1	320.7	371.1	416.0
40°	240.4	258.7	294.1	346.2	393.3
42.5°	210.5	228.8	267.0	322.4	371.7
45°	181.7	198.9	239.8	299.7	349.0
47.5°	159.5	171.7	212.7	277.5	324.6
50°	144.6	150.1	187.2	253.1	298.6
52.5°	131.3	135.7	164.0	228.8	273.1
55°	118.5	121.9	144.0	204.4	246.5
57.5°	107.5	109.1	126.3	180.0	217.7
60°	95.8	98.0	113.0	155.1	189.4
62.5°	86.4	87.5	101.4	131.3	161.2
65°	75.9	77.5	89.7	108.6	134.0
67.5°	66.5	69.2	77.5	88.6	105.8
70°	57.6	61.5	66.5	72.0	81.4
72.5°	49.3	53.7	56.5	58.7	57.1
75°	41.0	46.0	46.0	46.5	44.9
77.5°	33.2	37.7	37.1	36.6	34.3
80°	25.5	29.4	28.2	27.7	25.5
82.5°	18.8	21.6	20.5	19.9	17.2
85°	11.6	14.4	13.8	13.3	11.1
87.5°	5.5	8.3	7.8	7.2	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)