

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: P1060503

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060503  
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-S575D927-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

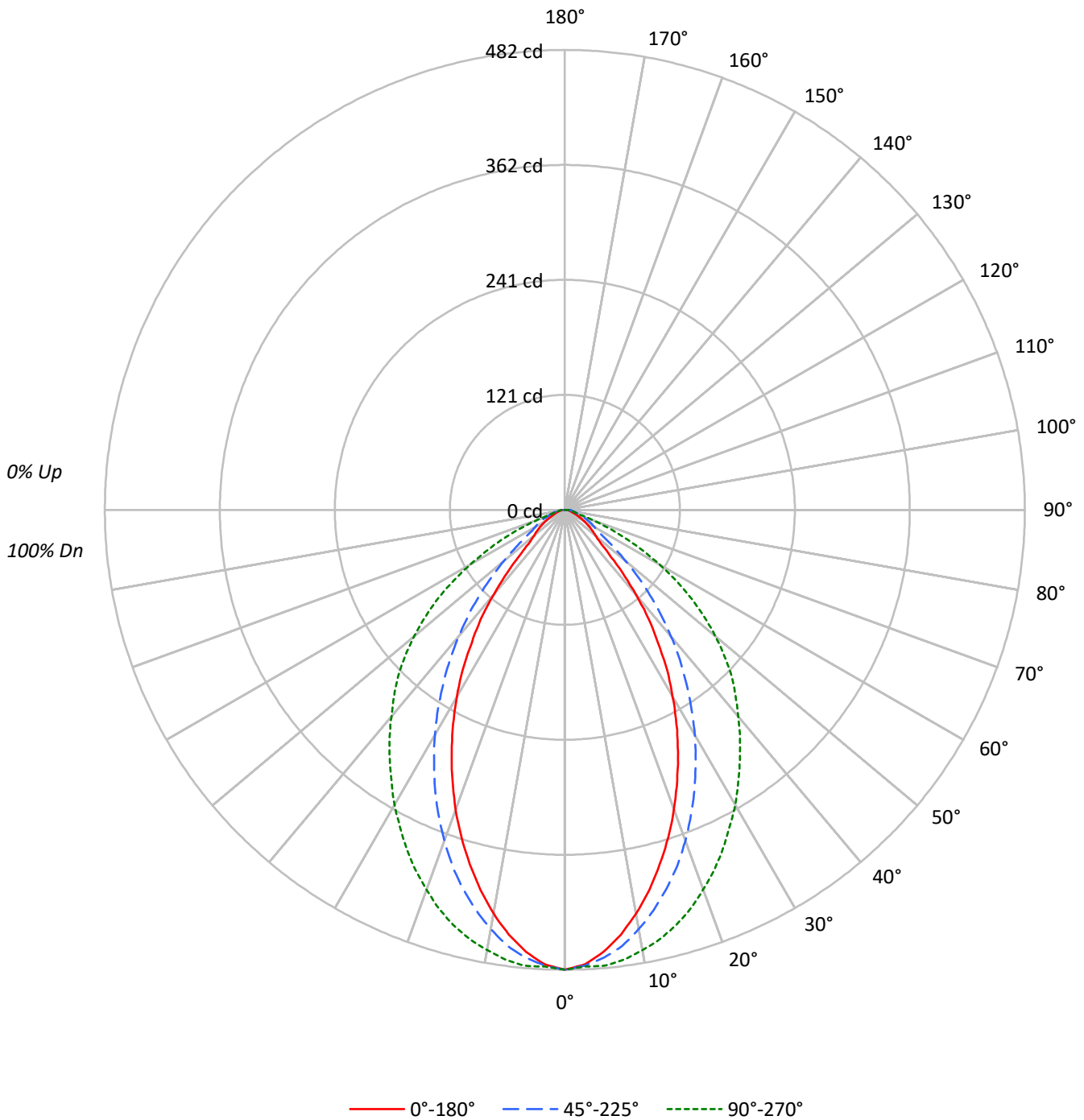
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 682.0 lumens  
Efficiency: N/A  
Efficacy: 34.8 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

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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	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°	4150	4150	4150
5°	4021	4072	4147
10°	3757	3902	4096
15°	3427	3667	4017
20°	3064	3384	3883
25°	2665	3059	3725
30°	2248	2709	3550
35°	1788	2332	3362
40°	1302	1942	3178
45°	787	1534	3009
50°	563	1111	2756
55°	477	752	2434
60°	389	611	1965
65°	308	548	1416
70°	257	461	745
75°	233	429	376
80°	238	426	372
85°	316	642	425

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3009 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.4	6.5
10°-20°	116.3	17.0
20°-30°	150.8	22.1
30°-40°	145.1	21.3
40°-50°	108.0	15.8
50°-60°	66.4	9.7
60°-70°	32.6	4.8
70°-80°	12.7	1.9
80°-90°	5.8	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°	311.4	45.7
0°-40°	456.5	66.9
0°-60°	630.9	92.5
0°-90°	682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	682.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	482	482	482	482	482	
5°	465	472	471	475	480	43
15°	384	397	411	436	451	107
25°	280	296	322	362	392	128
35°	170	186	222	277	320	106
45°	65	80	126	194	247	54
55°	32	33	50	114	162	29
65°	15	16	27	43	70	15
75°	7	12	13	12	11	8
85°	3	6	6	6	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	481.9	481.9	481.9	481.9	481.9
2.5°	477.0	482.4	478.1	478.6	479.2
5°	465.2	472.2	471.1	475.4	479.7
7.5°	449.0	457.1	460.9	469.5	475.4
10°	429.7	438.8	446.3	460.3	468.4
12.5°	408.1	418.9	429.7	448.5	460.9
15°	384.4	396.8	411.3	436.1	450.6
17.5°	360.2	372.6	391.4	420.0	438.3
20°	334.4	347.8	369.3	401.1	423.7
22.5°	307.4	322.0	345.7	381.7	408.7
25°	280.5	295.6	322.0	362.4	392.0
27.5°	253.6	268.1	296.7	341.9	374.2
30°	226.1	241.2	272.4	319.8	357.0
32.5°	199.8	213.7	247.1	298.8	338.1
35°	170.1	186.3	221.8	277.3	319.8
37.5°	144.8	159.4	197.6	255.7	301.5
40°	115.8	131.9	172.8	234.7	282.7
42.5°	88.8	105.0	149.1	213.7	264.9
45°	64.6	80.2	126.0	194.4	247.1
47.5°	49.0	58.1	103.4	175.5	227.2
50°	42.0	44.7	82.9	155.1	205.7
52.5°	37.2	38.2	64.6	134.6	184.1
55°	31.8	32.8	50.1	114.1	162.1
57.5°	26.9	27.5	40.4	94.8	138.4
60°	22.6	23.2	35.5	75.9	114.1
62.5°	18.8	19.4	31.8	58.7	91.0
65°	15.1	16.2	26.9	43.1	69.5
67.5°	12.4	14.5	22.6	30.2	48.5
70°	10.2	14.0	18.3	21.0	29.6
72.5°	8.6	12.9	15.6	15.1	14.5
75°	7.0	12.4	12.9	11.8	11.3
77.5°	5.9	10.8	10.8	9.7	9.2
80°	4.8	8.6	8.6	8.6	7.5
82.5°	4.3	7.0	7.5	7.5	5.9
85°	3.2	5.9	6.5	6.5	4.3
87.5°	2.2	5.4	5.9	5.4	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)