

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: P1060512

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060512  
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-S575D930-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, 90 CRI LEDS  
Ballast/Driver: -

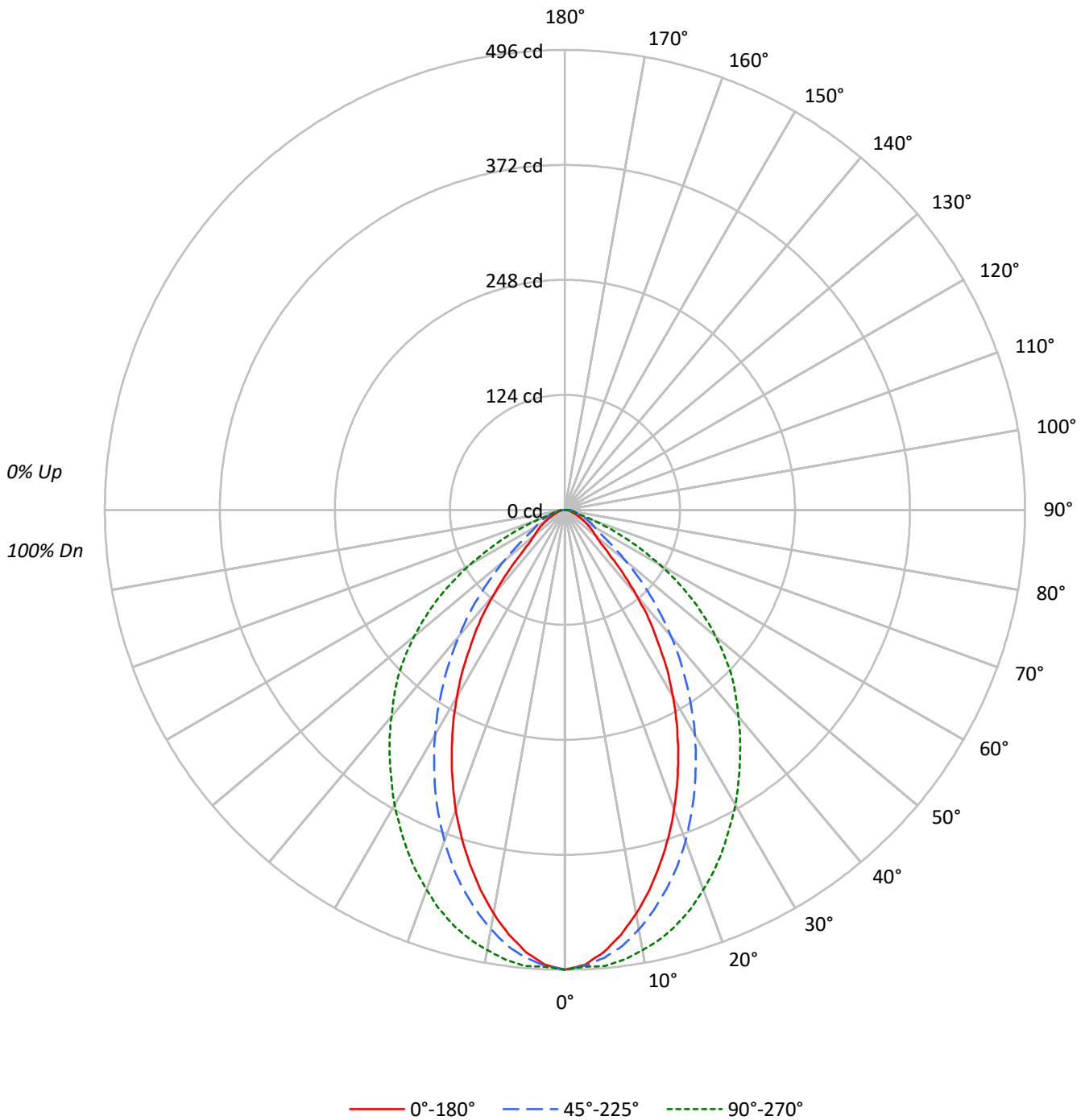
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 701.9 lumens  
Efficiency: N/A  
Efficacy: 35.8 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°	4270	4270	4270
5°	4139	4191	4268
10°	3867	4017	4215
15°	3527	3774	4135
20°	3153	3483	3996
25°	2743	3149	3833
30°	2314	2788	3653
35°	1841	2400	3460
40°	1339	2000	3270
45°	810	1579	3097
50°	579	1143	2836
55°	491	773	2504
60°	401	630	2024
65°	316	564	1457
70°	264	473	768
75°	240	443	386
80°	248	441	387
85°	326	652	435

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3097 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.7	6.5
10°-20°	119.6	17.0
20°-30°	155.2	22.1
30°-40°	149.4	21.3
40°-50°	111.1	15.8
50°-60°	68.3	9.7
60°-70°	33.6	4.8
70°-80°	13.1	1.9
80°-90°	6.0	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°	320.5	45.7
0°-40°	469.8	66.9
0°-60°	649.3	92.5
0°-90°	701.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	701.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	479	486	485	489	494	45
15°	396	408	423	449	464	111
25°	289	304	331	373	403	132
35°	175	192	228	285	329	109
45°	66	83	130	200	254	55
55°	33	34	52	118	167	29
65°	16	17	28	44	72	16
75°	7	13	13	12	12	8
85°	3	6	7	7	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	495.9	495.9	495.9	495.9	495.9
2.5°	491.0	496.5	492.1	492.6	493.2
5°	478.8	486.0	484.9	489.3	493.7
7.5°	462.1	470.4	474.3	483.2	489.3
10°	442.2	451.6	459.4	473.8	482.1
12.5°	420.0	431.1	442.2	461.6	474.3
15°	395.6	408.4	423.3	448.8	463.8
17.5°	370.7	383.5	402.8	432.2	451.1
20°	344.1	358.0	380.1	412.8	436.1
22.5°	316.4	331.4	355.7	392.9	420.6
25°	288.7	304.2	331.4	372.9	403.4
27.5°	261.0	276.0	305.3	351.9	385.1
30°	232.7	248.2	280.4	329.1	367.4
32.5°	205.6	220.0	254.3	307.5	348.0
35°	175.1	191.7	228.3	285.4	329.1
37.5°	149.1	164.0	203.4	263.2	310.3
40°	119.1	135.8	177.9	241.6	290.9
42.5°	91.4	108.1	153.5	220.0	272.6
45°	66.5	82.6	129.7	200.0	254.3
47.5°	50.4	59.8	106.4	180.6	233.8
50°	43.2	46.0	85.3	159.6	211.7
52.5°	38.2	39.3	66.5	138.5	189.5
55°	32.7	33.8	51.5	117.5	166.8
57.5°	27.7	28.3	41.6	97.5	142.4
60°	23.3	23.8	36.6	78.1	117.5
62.5°	19.4	19.9	32.7	60.4	93.6
65°	15.5	16.6	27.7	44.3	71.5
67.5°	12.7	15.0	23.3	31.0	49.9
70°	10.5	14.4	18.8	21.6	30.5
72.5°	8.9	13.3	16.1	15.5	15.0
75°	7.2	12.7	13.3	12.2	11.6
77.5°	6.1	11.1	11.1	10.0	9.4
80°	5.0	8.9	8.9	8.9	7.8
82.5°	4.4	7.2	7.8	7.8	6.1
85°	3.3	6.1	6.6	6.6	4.4
87.5°	2.2	5.5	6.1	5.5	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)