

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: P1060529

Luminaire Tested: S124RDR-S575D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S575D940-X4F0-XX-UDD-SVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

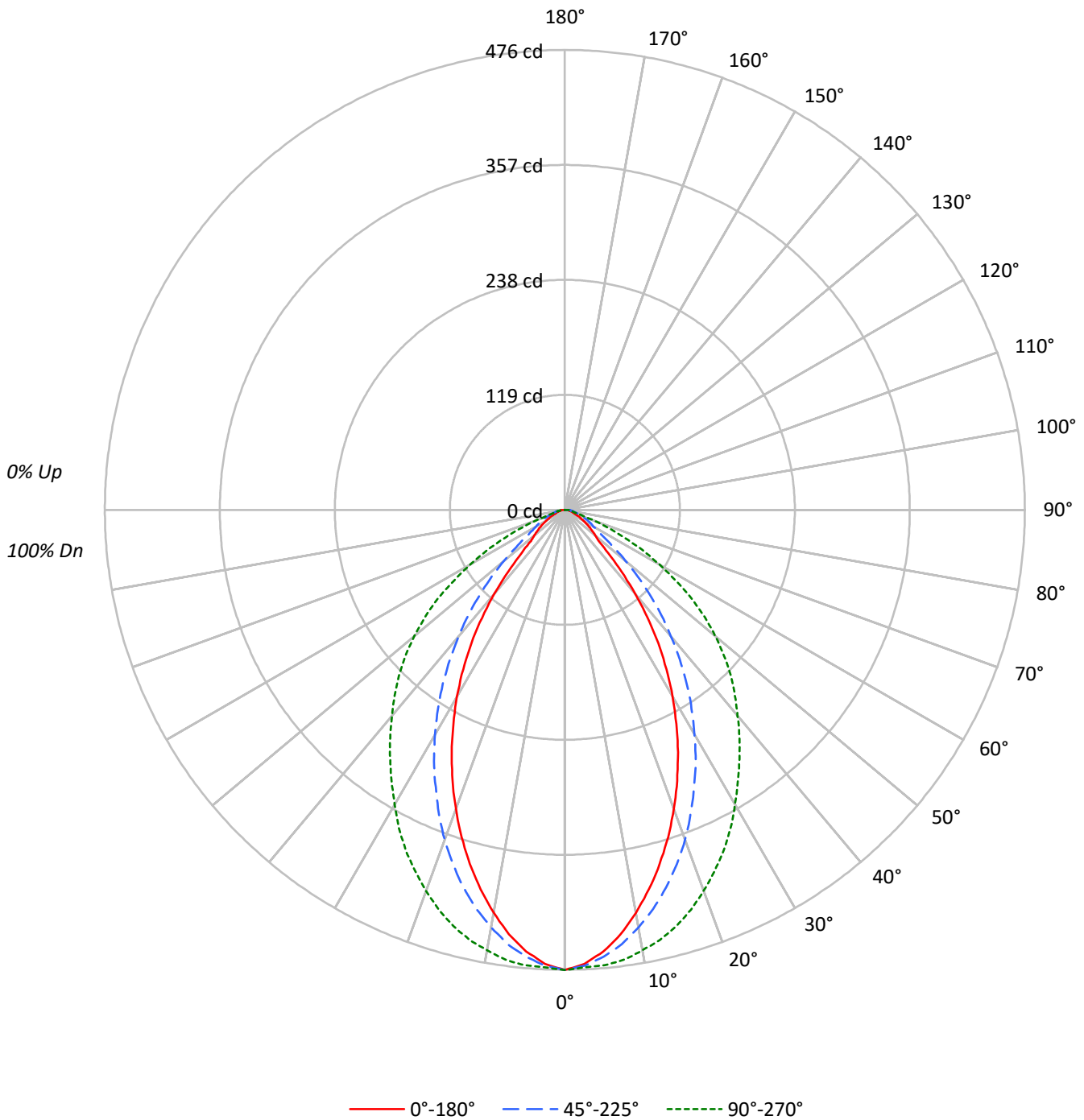
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 669.7 lumens  
Efficiency: N/A  
Efficacy: 34.2 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	105	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	67	75	70	66	73	68	65	63				63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57				57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51				51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43				43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°
0°	4101	4101	4101
5°	3965	4013	4090
10°	3704	3836	4048
15°	3381	3609	3976
20°	3020	3332	3848
25°	2631	3005	3696
30°	2217	2669	3501
35°	1771	2313	3312
40°	1274	1921	3126
45°	767	1513	2959
50°	552	1096	2719
55°	464	737	2411
60°	375	584	1941
65°	295	532	1396
70°	259	443	748
75°	243	403	363
80°	238	422	332
85°	356	603	415

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2959 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.7	6.5
10°-20°	114.6	17.1
20°-30°	148.6	22.2
30°-40°	142.9	21.3
40°-50°	106.0	15.8
50°-60°	64.9	9.7
60°-70°	31.5	4.7
70°-80°	12.0	1.8
80°-90°	5.4	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°	306.9	45.8
0°-40°	449.8	67.2
0°-60°	620.8	92.7
0°-90°	669.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	669.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	459	465	464	468	473	43
15°	379	390	405	429	446	106
25°	277	291	316	357	389	127
35°	168	184	220	272	315	104
45°	63	79	124	190	243	52
55°	31	32	49	111	161	28
65°	14	16	26	41	68	15
75°	7	12	12	11	11	8
85°	4	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°	476.3	476.3	476.3	476.3	476.3
2.5°	470.2	475.7	472.0	473.2	473.8
5°	458.7	465.4	464.2	468.4	473.2
7.5°	442.9	450.8	453.2	461.7	469.6
10°	423.6	433.2	438.7	452.6	462.9
12.5°	402.3	412.6	422.9	441.7	455.7
15°	379.3	390.2	404.8	429.0	446.0
17.5°	355.1	367.2	384.8	413.9	433.9
20°	329.6	342.4	363.6	395.7	419.9
22.5°	303.6	316.9	340.5	376.3	404.8
25°	276.9	290.9	316.3	356.9	389.0
27.5°	249.6	264.2	293.3	336.3	371.4
30°	223.0	236.9	268.4	315.1	352.1
32.5°	195.7	210.3	244.2	293.3	333.3
35°	168.5	183.6	220.0	272.1	315.1
37.5°	140.6	156.9	195.1	251.5	296.9
40°	113.3	129.1	170.9	230.3	278.1
42.5°	86.6	103.6	147.8	209.0	260.6
45°	63.0	78.8	124.2	189.7	243.0
47.5°	47.3	57.0	102.4	171.5	223.6
50°	41.2	43.0	81.8	151.5	203.0
52.5°	35.8	37.0	63.6	129.7	182.4
55°	30.9	32.1	49.1	110.9	160.6
57.5°	26.1	27.3	39.4	92.7	135.7
60°	21.8	23.0	33.9	73.9	112.7
62.5°	18.2	18.8	30.3	56.4	90.3
65°	14.5	15.8	26.1	41.2	68.5
67.5°	12.1	13.3	21.2	28.5	47.9
70°	10.3	13.3	17.6	20.0	29.7
72.5°	8.5	12.1	14.5	13.9	13.9
75°	7.3	11.5	12.1	10.9	10.9
77.5°	6.1	10.3	9.7	9.1	8.5
80°	4.8	8.5	8.5	7.3	6.7
82.5°	4.2	6.7	6.7	6.7	5.5
85°	3.6	6.1	6.1	5.5	4.2
87.5°	2.4	4.8	5.5	4.8	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)