

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: P1059216

Luminaire Tested: S123RDR-S340D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDR-S340D930-X4F0-XX-UDD-SVL-W  
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

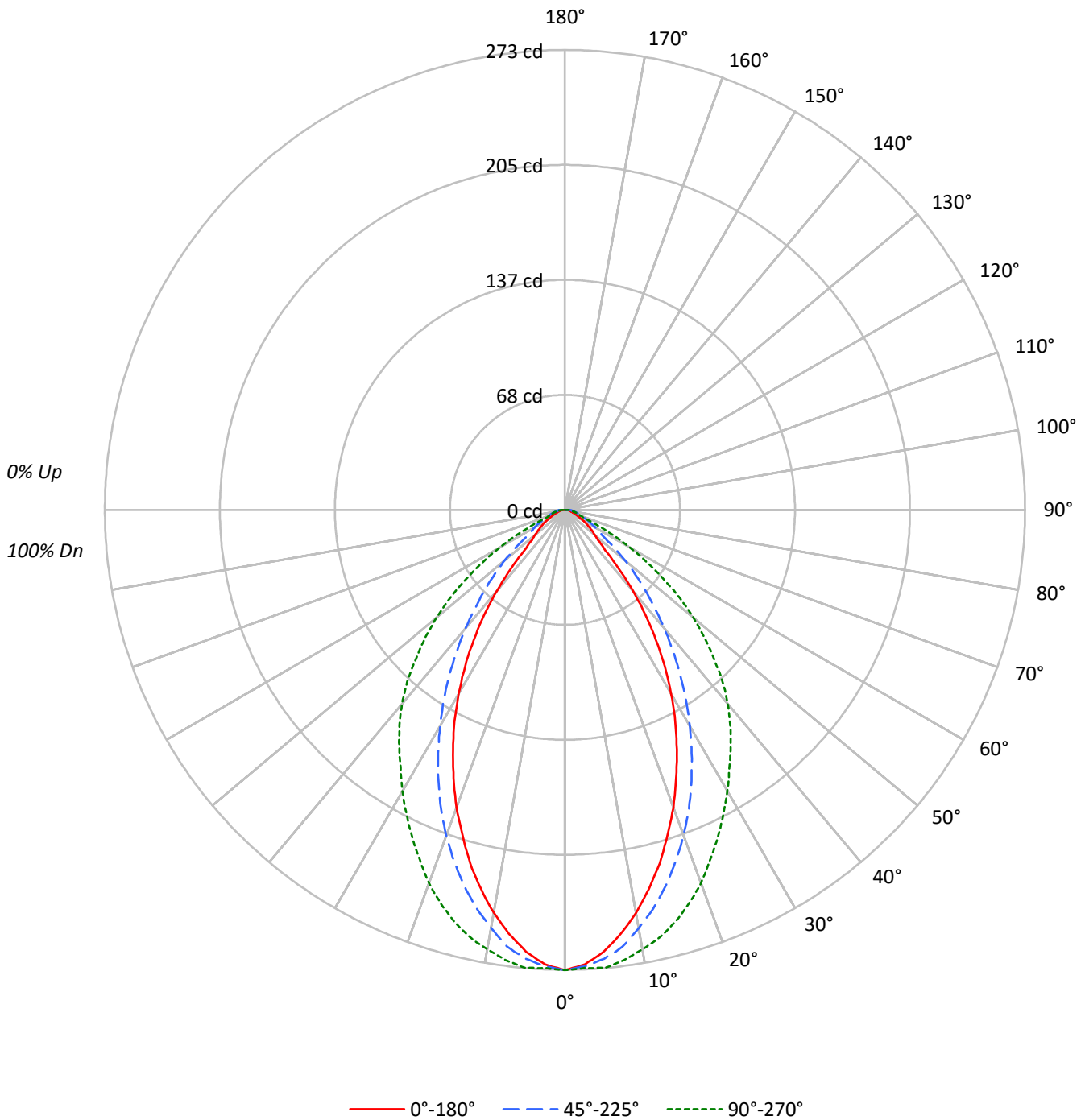
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 366.7 lumens  
Efficiency: N/A  
Efficacy: 29.3 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98  
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 12.5  
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: P1059216

CATALOG NUMBER: S123RDR-S340D930-X4F0-XX-UDD-SVL-W

### Luminous Intensity Polar Plot





TEST NUMBER: P1059216

CATALOG NUMBER: S123RDR-S340D930-X4F0-XX-UDD-SVL-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

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

	0°	45°	90°
0°	3208	3208	3208
5°	3104	3152	3217
10°	2897	3006	3160
15°	2640	2809	3078
20°	2349	2570	2948
25°	2035	2300	2779
30°	1707	2007	2614
35°	1352	1707	2457
40°	957	1404	2304
45°	563	1111	2074
50°	422	844	1816
55°	354	569	1460
60°	287	486	1036
65°	225	414	547
70°	199	360	336
75°	186	340	322
80°	183	365	325
85°	229	552	418

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2074 cd/sqm



TEST NUMBER: P1059216

CATALOG NUMBER: S123RDR-S340D930-X4F0-XX-UDD-SVL-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.1	6.9
10°-20°	65.3	17.8
20°-30°	83.2	22.7
30°-40°	78.3	21.3
40°-50°	56.4	15.4
50°-60°	32.6	8.9
60°-70°	14.9	4.1
70°-80°	7.4	2.0
80°-90°	3.5	1.0
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°	173.7	47.4
0°-40°	252.0	68.7
0°-60°	340.9	93.0
0°-90°	366.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	366.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	273	273	273	273	273	
5°	263	268	267	270	273	24
15°	217	225	231	244	253	61
25°	157	165	178	197	214	72
35°	94	102	119	147	171	59
45°	34	42	67	100	125	29
55°	17	18	28	53	71	16
65°	8	12	15	17	20	8
75°	4	8	8	7	7	4
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



TEST NUMBER: P1059216

CATALOG NUMBER: S123RDR-S340D930-X4F0-XX-UDD-SVL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	273.2	273.2	273.2	273.2	273.2
2.5°	270.1	273.5	271.2	271.5	272.2
5°	263.3	267.8	267.4	270.1	272.9
7.5°	253.8	258.9	261.7	265.7	269.5
10°	243.0	248.8	252.1	259.6	265.0
12.5°	230.4	237.9	242.3	252.1	260.0
15°	217.2	225.0	231.1	244.0	253.2
17.5°	202.3	210.7	218.6	233.8	245.0
20°	188.0	196.2	205.7	222.3	235.9
22.5°	172.4	181.2	192.1	209.7	225.0
25°	157.1	165.3	177.5	197.2	214.5
27.5°	141.9	150.0	162.9	184.6	203.6
30°	125.9	134.4	148.0	172.1	192.8
32.5°	110.3	118.4	133.7	159.8	181.6
35°	94.3	102.5	119.1	146.6	171.4
37.5°	78.7	87.2	104.9	135.7	161.2
40°	62.4	71.6	91.6	124.5	150.3
42.5°	47.2	57.0	78.4	113.0	138.5
45°	33.9	42.4	66.9	100.5	124.9
47.5°	26.5	30.9	56.3	87.6	112.3
50°	23.1	23.8	46.2	75.7	99.4
52.5°	20.0	20.7	36.3	64.5	85.9
55°	17.3	18.0	27.8	52.9	71.3
57.5°	14.6	15.6	23.1	42.1	57.4
60°	12.2	13.6	20.7	32.2	44.1
62.5°	9.8	12.2	17.6	23.8	31.6
65°	8.1	11.5	14.9	16.6	19.7
67.5°	6.8	10.5	12.6	11.9	11.5
70°	5.8	9.5	10.5	9.5	9.8
72.5°	4.8	8.8	8.8	8.1	8.1
75°	4.1	7.8	7.5	7.1	7.1
77.5°	3.4	6.8	6.4	6.1	5.8
80°	2.7	5.4	5.4	5.1	4.8
82.5°	2.4	4.4	4.4	4.4	3.7
85°	1.7	3.7	4.1	3.7	3.1
87.5°	1.4	3.4	3.4	3.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)