

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: P1059044

Luminaire Tested: S123RDR-S1000D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059044  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDR-S1000D927-X4F0-XX-UDD-SVL-S  
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

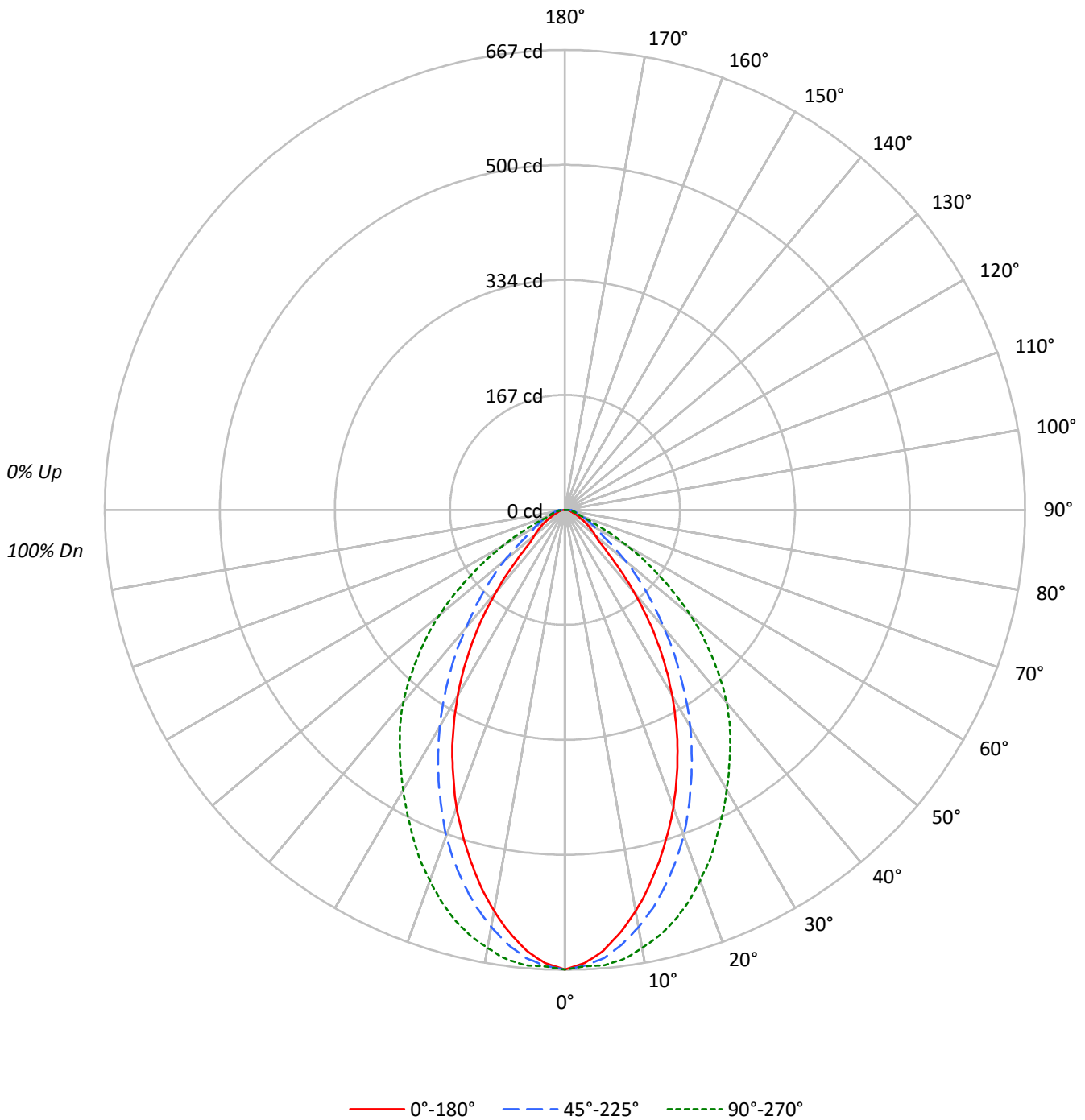
Lumens per Lamp: N/A  
Luminaire Lumens: 892.9 lumens  
Efficiency: N/A  
Efficacy: 25.5 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98  
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 35  
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	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				71
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64				64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58				58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52				52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48				48
8	70	58	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45	44				44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37				37

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

	0°	45°	90°
0°	7829	7829	7829
5°	7560	7686	7813
10°	7044	7323	7694
15°	6413	6850	7490
20°	5741	6288	7151
25°	5006	5611	6759
30°	4210	4922	6361
35°	3349	4171	5985
40°	2387	3401	5595
45°	1423	2732	5010
50°	1049	2081	4339
55°	876	1415	3448
60°	709	1165	2424
65°	567	1000	1298
70°	467	869	803
75°	440	839	749
80°	460	920	724
85°	660	1307	916

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5010 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.2	6.9
10°-20°	159.1	17.8
20°-30°	202.9	22.7
30°-40°	190.9	21.4
40°-50°	137.2	15.4
50°-60°	78.7	8.8
60°-70°	36.0	4.0
70°-80°	18.1	2.0
80°-90°	8.8	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°	423.3	47.4
0°-40°	614.2	68.8
0°-60°	830.0	93.0
0°-90°	892.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	892.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	641	654	652	657	663	60
15°	528	546	564	594	616	147
25°	386	404	433	480	522	176
35°	234	250	291	357	418	145
45°	86	104	164	242	302	72
55°	43	44	69	128	168	38
65°	20	28	36	40	47	21
75°	10	20	18	16	16	11
85°	5	10	10	9	7	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	666.7	666.7	666.7	666.7	666.7
2.5°	658.0	667.7	661.8	661.8	662.8
5°	641.4	654.1	652.1	657.0	662.8
7.5°	618.0	631.7	635.6	647.2	657.0
10°	590.8	606.4	614.2	632.6	645.3
12.5°	560.6	578.1	590.8	614.2	632.6
15°	527.5	546.0	563.5	593.7	616.1
17.5°	493.5	512.0	534.3	569.4	595.7
20°	459.4	477.9	503.2	540.2	572.3
22.5°	422.4	440.9	468.2	510.0	548.9
25°	386.4	403.9	433.1	479.8	521.7
27.5°	348.4	366.0	398.1	448.7	495.4
30°	310.5	328.0	363.0	417.5	469.1
32.5°	272.5	289.1	327.0	387.4	442.9
35°	233.6	250.1	291.0	357.2	417.5
37.5°	193.7	210.2	257.9	330.0	392.2
40°	155.7	174.2	221.9	302.7	365.0
42.5°	118.7	138.2	192.7	273.5	333.8
45°	85.7	104.1	164.5	242.4	301.7
47.5°	65.2	74.9	139.2	211.2	270.6
50°	57.4	58.4	113.9	183.0	237.5
52.5°	49.6	50.6	88.6	155.7	202.4
55°	42.8	43.8	69.1	127.5	168.4
57.5°	36.0	38.0	56.5	101.2	135.3
60°	30.2	34.1	49.6	76.9	103.2
62.5°	24.3	31.1	42.8	56.5	74.0
65°	20.4	28.2	36.0	39.9	46.7
67.5°	16.5	26.3	30.2	28.2	28.2
70°	13.6	23.4	25.3	23.4	23.4
72.5°	11.7	22.4	21.4	19.5	19.5
75°	9.7	19.5	18.5	16.5	16.5
77.5°	8.8	16.5	15.6	14.6	13.6
80°	6.8	13.6	13.6	12.7	10.7
82.5°	5.8	11.7	11.7	10.7	8.8
85°	4.9	9.7	9.7	8.8	6.8
87.5°	3.9	8.8	8.8	7.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)