

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: P1057947

Luminaire Tested: S122RDR-S290D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1057947  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S290D950-X4F0-XX-UDD-SVL-W  
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

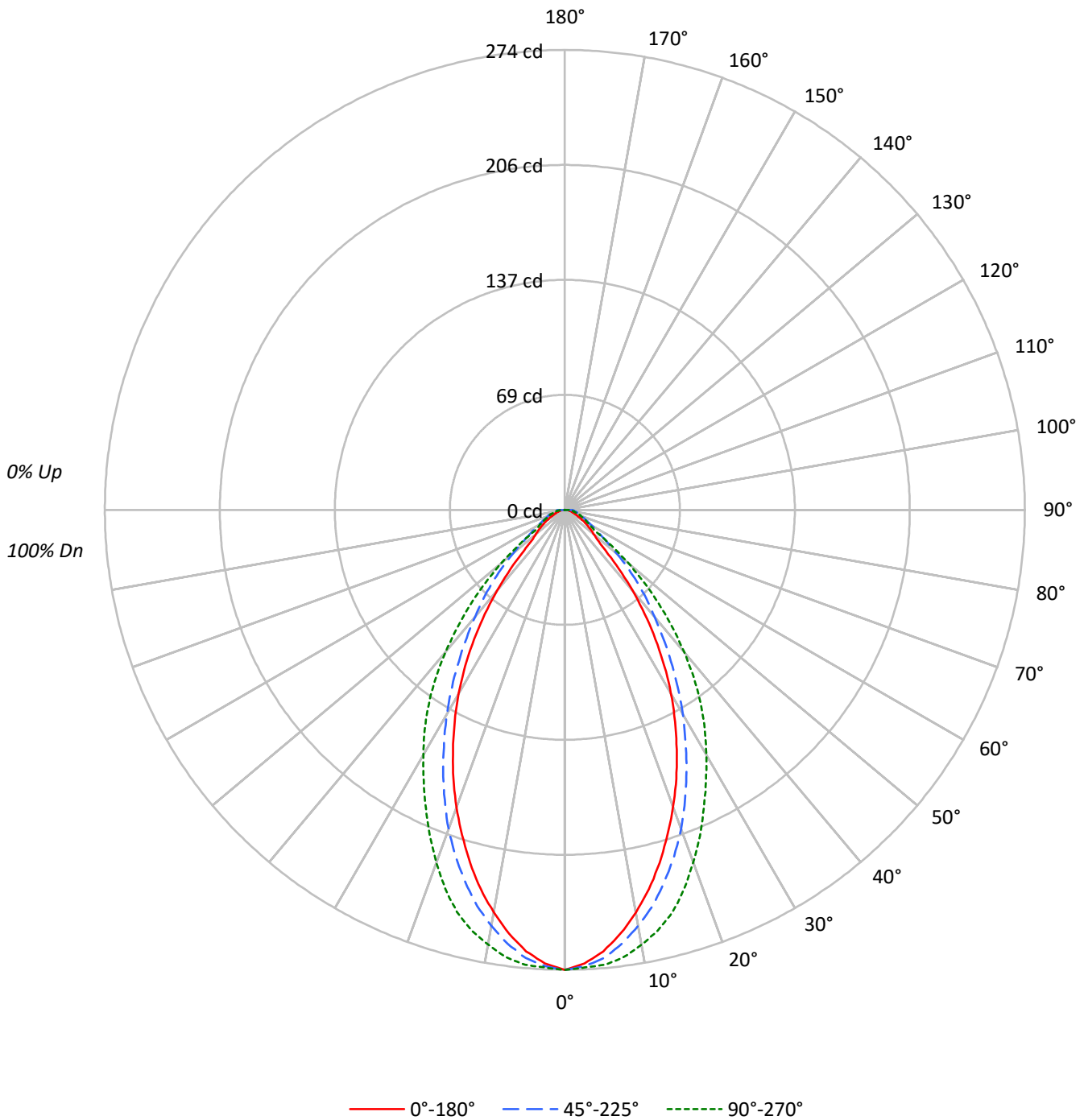
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 332.5 lumens  
Efficiency: N/A  
Efficacy: 26.6 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95  
Luminous Opening: Rectangular (W 0.15' 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

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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	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	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

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

	0°	45°	90°
0°	5058	5058	5058
5°	4890	4964	5040
10°	4564	4716	4930
15°	4163	4380	4740
20°	3703	3976	4391
25°	3209	3492	3989
30°	2691	2994	3592
35°	2120	2478	3183
40°	1510	2002	2659
45°	892	1584	2062
50°	643	1145	1404
55°	537	827	708
60°	435	661	602
65°	354	585	550
70°	308	572	529
75°	292	577	520
80°	308	691	563
85°	423	1122	699

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2062 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.1	7.6
10°-20°	64.6	19.4
20°-30°	79.7	24.0
30°-40°	70.9	21.3
40°-50°	45.2	13.6
50°-60°	21.7	6.5
60°-70°	12.7	3.8
70°-80°	8.1	2.4
80°-90°	4.3	1.3
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°	169.4	51.0
0°-40°	240.3	72.3
0°-60°	307.3	92.4
0°-90°	332.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	332.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	274	274	274	274	274	
5°	264	269	268	270	272	25
15°	218	223	229	240	248	61
25°	158	164	172	184	196	72
35°	94	101	110	127	141	58
45°	34	44	61	70	79	29
55°	17	22	26	25	22	15
65°	8	15	13	12	13	8
75°	4	9	8	8	7	4
85°	2	5	5	4	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	274.1	274.1	274.1	274.1	274.1
2.5°	270.5	275.0	272.1	272.1	272.9
5°	264.0	268.8	268.0	269.7	272.1
7.5°	254.6	259.9	260.7	265.2	268.8
10°	243.6	249.3	251.7	258.3	263.1
12.5°	231.4	237.1	241.6	249.7	256.6
15°	217.9	223.2	229.3	239.9	248.1
17.5°	203.3	210.2	216.3	227.3	236.7
20°	188.6	195.1	202.5	213.0	223.6
22.5°	173.5	179.6	187.0	198.0	210.2
25°	157.6	163.8	171.5	183.7	195.9
27.5°	142.2	148.3	155.6	169.0	182.1
30°	126.3	132.4	140.5	154.4	168.6
32.5°	110.4	116.9	125.1	140.1	155.2
35°	94.1	101.4	110.0	126.7	141.3
37.5°	78.2	85.5	96.1	112.4	126.3
40°	62.7	71.3	83.1	97.8	110.4
42.5°	47.7	57.0	71.7	83.5	94.5
45°	34.2	44.4	60.7	70.5	79.0
47.5°	26.1	33.4	50.1	57.8	64.0
50°	22.4	26.9	39.9	45.6	48.9
52.5°	19.6	23.6	31.8	34.6	34.6
55°	16.7	21.6	25.7	24.8	22.0
57.5°	14.3	19.6	21.2	17.9	18.7
60°	11.8	17.9	17.9	15.9	16.3
62.5°	9.8	16.7	15.5	13.8	14.3
65°	8.1	14.7	13.4	12.2	12.6
67.5°	6.5	13.0	11.8	11.0	11.0
70°	5.7	11.8	10.6	9.8	9.8
72.5°	4.9	10.2	9.4	8.6	8.6
75°	4.1	9.0	8.1	7.7	7.3
77.5°	3.7	7.7	7.3	6.5	6.1
80°	2.9	6.5	6.5	6.1	5.3
82.5°	2.4	5.7	5.7	5.3	4.5
85°	2.0	4.9	5.3	4.5	3.3
87.5°	1.6	4.5	4.5	3.7	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)