

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: P1057838

Luminaire Tested: S122RDR-S1005D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1057838  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S1005D930-X4F0-XX-UDD-SVL-S  
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

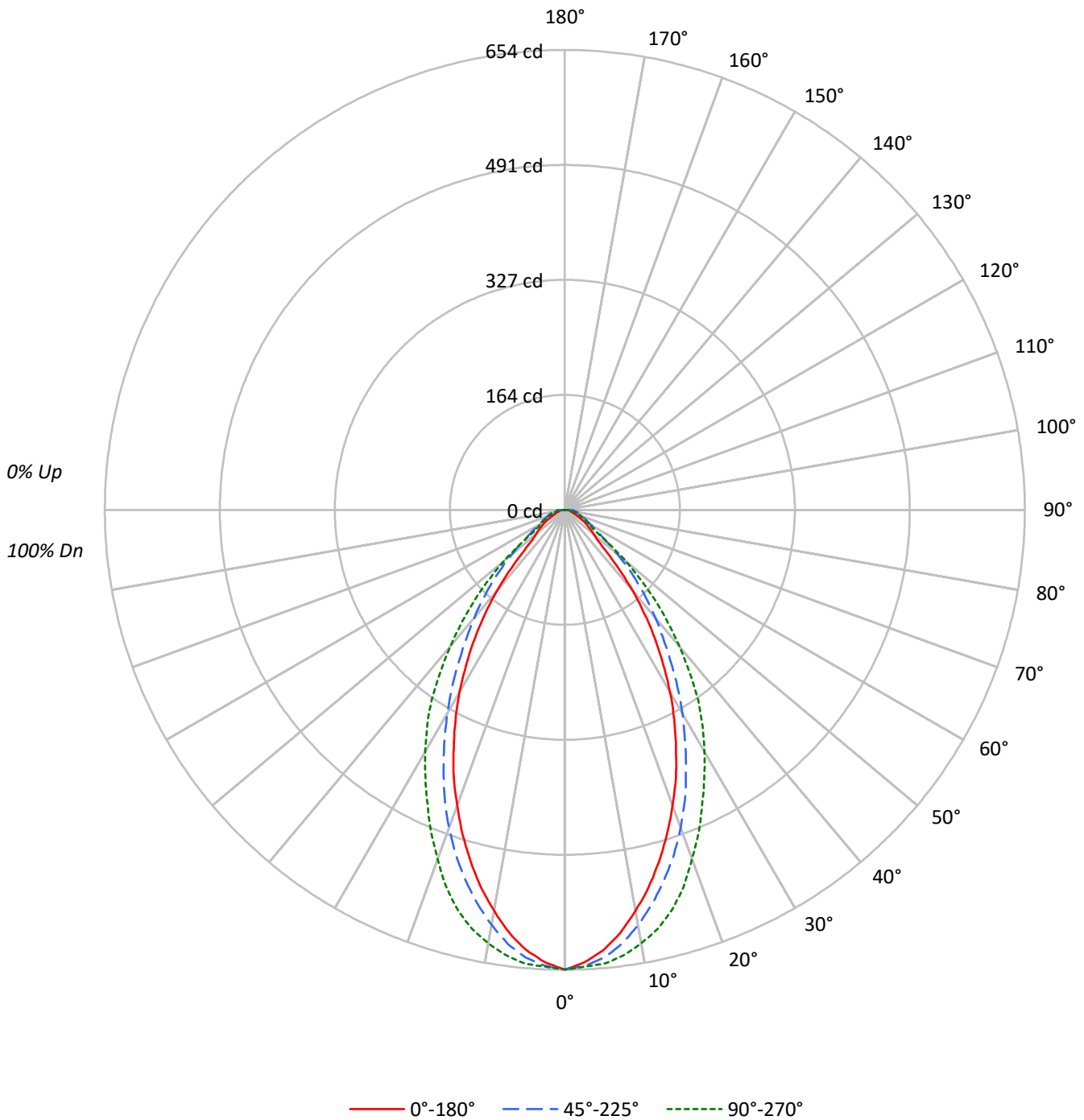
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 788.6 lumens  
Efficiency: N/A  
Efficacy: 18.9 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
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	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59				59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50				50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46				46
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42				42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39				39

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

	0°	45°	90°
0°	12062	12062	12062
5°	11640	11840	11997
10°	10847	11231	11728
15°	9884	10413	11244
20°	8785	9449	10374
25°	7613	8299	9404
30°	6373	7119	8455
35°	5026	5895	7445
40°	3604	4822	6101
45°	2109	3807	4721
50°	1524	2770	3186
55°	1280	1979	1670
60°	1022	1602	1425
65°	843	1423	1319
70°	718	1365	1235
75°	684	1462	1205
80°	765	1796	1286
85°	1270	2816	1778

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4721 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.9	7.6
10°-20°	153.4	19.5
20°-30°	188.6	23.9
30°-40°	166.7	21.1
40°-50°	106.4	13.5
50°-60°	51.9	6.6
60°-70°	30.9	3.9
70°-80°	19.7	2.5
80°-90°	10.9	1.4
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°	401.9	51.0
0°-40°	568.7	72.1
0°-60°	727.0	92.2
0°-90°	788.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	788.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	628	642	639	642	648	58
15°	517	532	545	569	589	144
25°	374	387	408	433	462	171
35°	223	235	262	298	330	139
45°	81	104	146	164	181	68
55°	40	53	62	58	52	36
65°	19	36	33	30	30	19
75°	10	22	20	18	17	11
85°	6	12	13	12	8	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	653.7	653.7	653.7	653.7	653.7
2.5°	644.0	656.1	648.9	648.9	650.1
5°	628.4	641.6	639.2	641.6	647.7
7.5°	606.6	619.9	622.3	632.0	639.2
10°	578.9	592.2	599.4	615.1	625.9
12.5°	550.0	563.2	574.1	594.6	610.3
15°	517.4	531.9	545.1	569.3	588.6
17.5°	483.6	498.1	515.0	539.1	562.0
20°	447.4	460.7	481.2	504.1	528.3
22.5°	412.5	424.5	446.2	467.9	496.9
25°	373.9	387.1	407.6	433.0	461.9
27.5°	336.5	349.8	370.3	399.2	429.4
30°	299.1	311.2	334.1	364.2	396.8
32.5°	260.5	272.6	297.9	330.5	364.2
35°	223.1	235.2	261.7	297.9	330.5
37.5°	185.7	199.0	229.1	262.9	290.7
40°	149.6	165.2	200.2	229.1	253.3
42.5°	113.4	135.1	172.5	196.6	215.9
45°	80.8	103.7	145.9	164.0	180.9
47.5°	61.5	79.6	120.6	133.9	144.7
50°	53.1	65.1	96.5	106.1	111.0
52.5°	45.8	57.9	77.2	80.8	78.4
55°	39.8	53.1	61.5	57.9	51.9
57.5°	33.8	49.4	50.7	43.4	44.6
60°	27.7	44.6	43.4	37.4	38.6
62.5°	22.9	41.0	37.4	33.8	33.8
65°	19.3	36.2	32.6	30.2	30.2
67.5°	15.7	32.6	28.9	26.5	26.5
70°	13.3	28.9	25.3	22.9	22.9
72.5°	12.1	25.3	22.9	20.5	20.5
75°	9.6	21.7	20.5	18.1	16.9
77.5°	8.4	18.1	18.1	16.9	14.5
80°	7.2	15.7	16.9	14.5	12.1
82.5°	7.2	14.5	14.5	13.3	9.6
85°	6.0	12.1	13.3	12.1	8.4
87.5°	3.6	10.9	10.9	9.6	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)