

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: P1057832

Luminaire Tested: S122RDR-S1005D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1057832  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S1005D927-X4F0-XX-UDD-WVL-S  
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

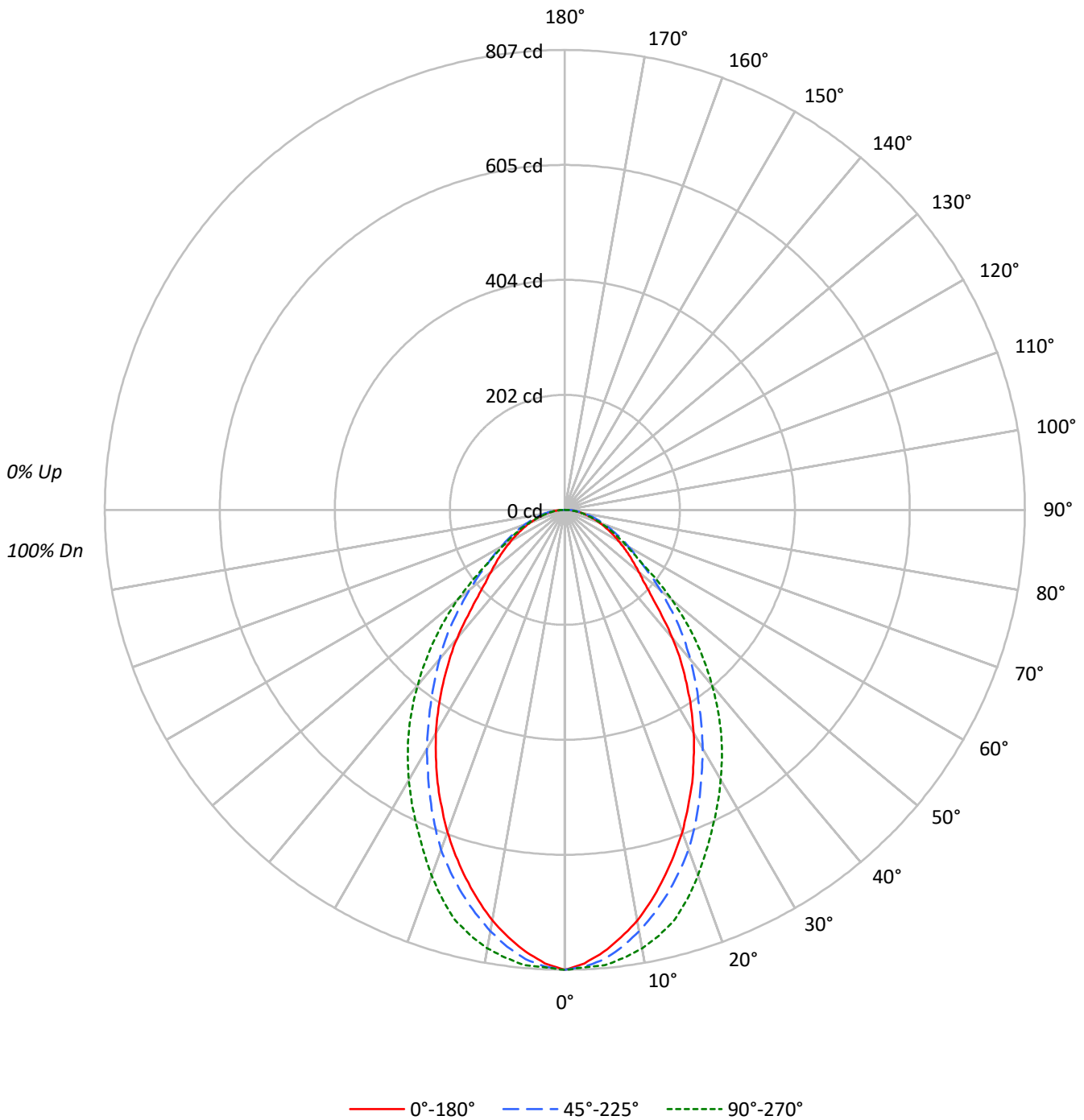
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1314.1 lumens  
Efficiency: N/A  
Efficacy: 31.4 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05  
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

TEST NUMBER: P1057832

CATALOG NUMBER: S122RDR-S1005D927-X4F0-XX-UDD-WVL-S

### Luminous Intensity Polar Plot





TEST NUMBER: P1057832

CATALOG NUMBER: S122RDR-S1005D927-X4F0-XX-UDD-WVL-S

**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				
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	79	84	80	78	76				
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66				
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33				

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

	0°	45°	90°
0°	14891	14891	14891
5°	14428	14665	14861
10°	13716	14068	14637
15°	12797	13313	14230
20°	11821	12465	13408
25°	10754	11375	12495
30°	9633	10306	11655
35°	8389	9209	10765
40°	7082	8238	9676
45°	5624	7275	8465
50°	4843	6252	7027
55°	4407	5350	5389
60°	4019	4753	4580
65°	3681	4296	4039
70°	3410	3982	3604
75°	3173	3757	3173
80°	2986	3613	2858
85°	2985	3726	2477

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 8465 cd/sqm



TEST NUMBER: P1057832

CATALOG NUMBER: S122RDR-S1005D927-X4F0-XX-UDD-WVL-S

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.5	5.7
10°-20°	196.9	15.0
20°-30°	259.2	19.7
30°-40°	260.6	19.8
40°-50°	211.2	16.1
50°-60°	145.5	11.1
60°-70°	95.2	7.2
70°-80°	53.0	4.0
80°-90°	18.0	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°	530.6	40.4
0°-40°	791.2	60.2
0°-60°	1147.8	87.4
0°-90°	1314.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1314.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	779	794	792	795	802	73
15°	670	686	697	723	745	188
25°	528	542	559	583	614	242
35°	372	390	409	445	478	232
45°	216	240	279	303	324	170
55°	137	152	166	170	168	123
65°	84	101	98	94	92	84
75°	44	55	53	47	44	48
85°	14	19	18	15	12	15
90°	0	0	0	0	0	



TEST NUMBER: P1057832

CATALOG NUMBER: S122RDR-S1005D927-X4F0-XX-UDD-WVL-S

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	807.0	807.0	807.0	807.0	807.0
2.5°	796.4	810.5	802.3	802.3	803.5
5°	778.9	794.1	791.7	795.3	802.3
7.5°	756.6	773.0	773.0	783.5	792.9
10°	732.0	748.4	750.8	767.1	781.2
12.5°	701.6	718.0	725.0	746.1	764.8
15°	669.9	686.3	696.9	722.6	744.9
17.5°	636.0	652.4	666.4	693.4	715.6
20°	602.0	617.2	634.8	658.2	682.8
22.5°	564.5	580.9	597.3	619.6	647.7
25°	528.2	542.3	558.7	583.3	613.7
27.5°	489.6	504.8	520.0	549.3	580.9
30°	452.1	467.3	483.7	514.2	547.0
32.5°	412.3	428.7	445.1	479.0	513.0
35°	372.4	390.0	408.8	445.1	477.9
37.5°	333.8	352.5	374.8	412.3	440.4
40°	294.0	313.9	342.0	374.8	401.7
42.5°	251.8	276.4	310.4	338.5	363.1
45°	215.5	240.1	278.8	303.3	324.4
47.5°	188.6	208.5	246.0	267.0	284.6
50°	168.7	183.9	217.8	233.1	244.8
52.5°	152.3	167.5	190.9	201.5	205.0
55°	137.0	152.3	166.3	169.8	167.5
57.5°	121.8	138.2	146.4	142.9	142.9
60°	108.9	126.5	128.8	124.1	124.1
62.5°	96.0	113.6	113.6	107.8	107.8
65°	84.3	100.7	98.4	93.7	92.5
67.5°	73.8	89.0	85.5	80.8	79.6
70°	63.2	77.3	73.8	67.9	66.8
72.5°	53.9	66.8	62.1	57.4	55.0
75°	44.5	55.0	52.7	46.8	44.5
77.5°	36.3	44.5	42.2	37.5	35.1
80°	28.1	35.1	34.0	29.3	26.9
82.5°	21.1	26.9	25.8	22.3	18.7
85°	14.1	18.7	17.6	15.2	11.7
87.5°	7.0	12.9	11.7	10.5	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)