

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: P1057919

Luminaire Tested: S122RDR-S290D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057919
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-S290D930-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

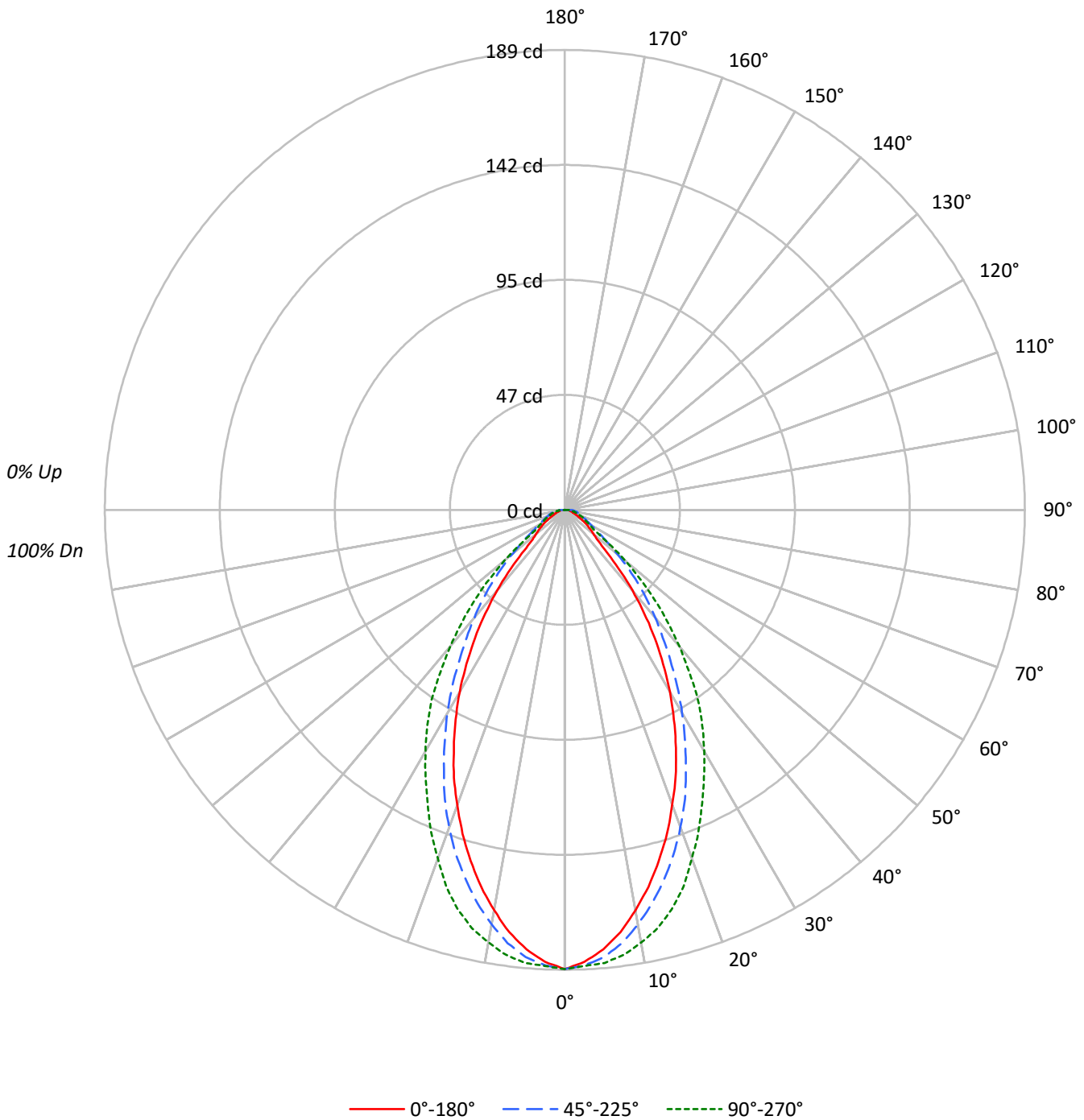
Lumens per Lamp: N/A
Luminaire Lumens: 227.6 lumens
Efficiency: N/A
Efficacy: 18.2 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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									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	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	101	99	97	98	96	94	94	93	91	89																												
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80																												
3	97	89	83	78	95	88	82	77	85	80	76	82	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	66	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	44	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°	3482	3482	3482
5°	3358	3417	3462
10°	3131	3242	3384
15°	2852	3005	3246
20°	2535	2728	2995
25°	2197	2394	2714
30°	1839	2054	2440
35°	1451	1701	2149
40°	1041	1392	1761
45°	608	1099	1362
50°	439	798	919
55°	370	573	483
60°	295	461	410
65°	245	410	380
70°	205	394	356
75°	200	421	349
80°	223	521	372
85°	360	805	508

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1362 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.3	7.6
10°-20°	44.3	19.5
20°-30°	54.4	23.9
30°-40°	48.1	21.1
40°-50°	30.7	13.5
50°-60°	15.0	6.6
60°-70°	8.9	3.9
70°-80°	5.7	2.5
80°-90°	3.1	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°	116.0	51.0
0°-40°	164.1	72.1
0°-60°	209.8	92.2
0°-90°	227.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	227.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	189	189	189	189	189	
5°	181	185	184	185	187	17
15°	149	154	157	164	170	42
25°	108	112	118	125	133	49
35°	64	68	76	86	95	40
45°	23	30	42	47	52	20
55°	12	15	18	17	15	10
65°	6	10	9	9	9	6
75°	3	6	6	5	5	3
85°	2	4	4	4	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	188.7	188.7	188.7	188.7	188.7
2.5°	185.9	189.4	187.3	187.3	187.6
5°	181.3	185.2	184.5	185.2	186.9
7.5°	175.1	178.9	179.6	182.4	184.5
10°	167.1	170.9	173.0	177.5	180.6
12.5°	158.7	162.5	165.7	171.6	176.1
15°	149.3	153.5	157.3	164.3	169.9
17.5°	139.6	143.8	148.6	155.6	162.2
20°	129.1	133.0	138.9	145.5	152.5
22.5°	119.0	122.5	128.8	135.1	143.4
25°	107.9	111.7	117.6	125.0	133.3
27.5°	97.1	100.9	106.9	115.2	123.9
30°	86.3	89.8	96.4	105.1	114.5
32.5°	75.2	78.7	86.0	95.4	105.1
35°	64.4	67.9	75.5	86.0	95.4
37.5°	53.6	57.4	66.1	75.9	83.9
40°	43.2	47.7	57.8	66.1	73.1
42.5°	32.7	39.0	49.8	56.7	62.3
45°	23.3	29.9	42.1	47.3	52.2
47.5°	17.8	23.0	34.8	38.6	41.8
50°	15.3	18.8	27.8	30.6	32.0
52.5°	13.2	16.7	22.3	23.3	22.6
55°	11.5	15.3	17.8	16.7	15.0
57.5°	9.7	14.3	14.6	12.5	12.9
60°	8.0	12.9	12.5	10.8	11.1
62.5°	6.6	11.8	10.8	9.7	9.7
65°	5.6	10.4	9.4	8.7	8.7
67.5°	4.5	9.4	8.4	7.7	7.7
70°	3.8	8.4	7.3	6.6	6.6
72.5°	3.5	7.3	6.6	5.9	5.9
75°	2.8	6.3	5.9	5.2	4.9
77.5°	2.4	5.2	5.2	4.9	4.2
80°	2.1	4.5	4.9	4.2	3.5
82.5°	2.1	4.2	4.2	3.8	2.8
85°	1.7	3.5	3.8	3.5	2.4
87.5°	1.0	3.1	3.1	2.8	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)