

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: P1057928

Luminaire Tested: S122RDR-S290D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057928
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-S290D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

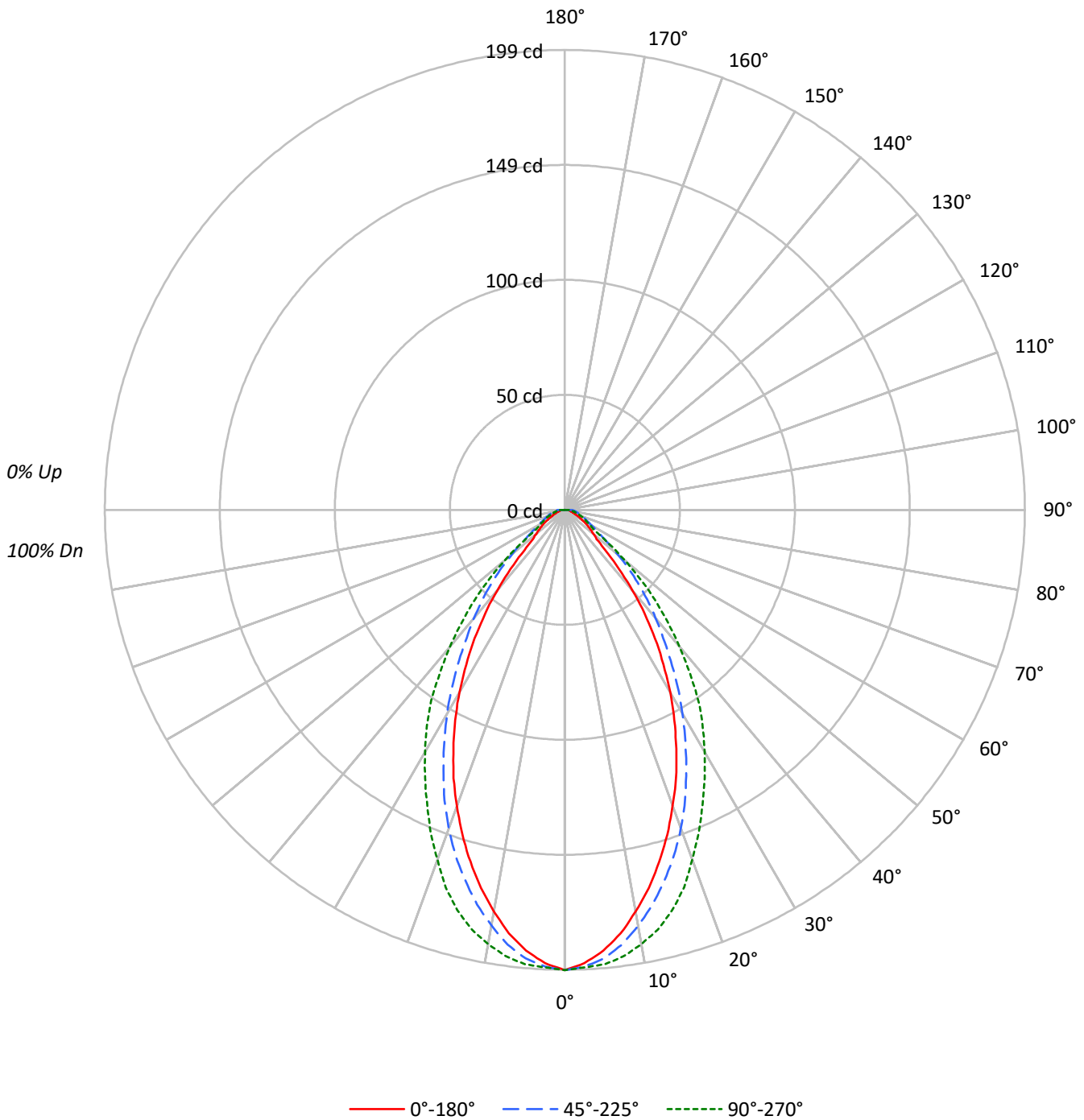
Lumens per Lamp: N/A
Luminaire Lumens: 240.3 lumens
Efficiency: N/A
Efficacy: 19.2 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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													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°	3676	3676	3676
5°	3547	3608	3656
10°	3305	3423	3575
15°	3013	3173	3427
20°	2678	2881	3162
25°	2321	2529	2867
30°	1943	2169	2576
35°	1532	1798	2268
40°	1098	1469	1860
45°	642	1161	1438
50°	465	844	970
55°	389	602	508
60°	314	487	435
65°	258	432	402
70°	216	415	378
75°	207	442	364
80°	234	542	393
85°	381	847	550

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1438 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.3	7.6
10°-20°	46.8	19.5
20°-30°	57.5	23.9
30°-40°	50.8	21.1
40°-50°	32.4	13.5
50°-60°	15.8	6.6
60°-70°	9.4	3.9
70°-80°	6.0	2.5
80°-90°	3.3	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°	122.5	51.0
0°-40°	173.3	72.1
0°-60°	221.6	92.2
0°-90°	240.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	240.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	199	199	199	199	199	
5°	192	196	195	196	197	18
15°	158	162	166	174	179	44
25°	114	118	124	132	141	52
35°	68	72	80	91	101	42
45°	25	32	44	50	55	21
55°	12	16	19	18	16	11
65°	6	11	10	9	9	6
75°	3	7	6	6	5	3
85°	2	4	4	4	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	199.2	199.2	199.2	199.2	199.2
2.5°	196.3	200.0	197.8	197.8	198.1
5°	191.5	195.6	194.8	195.6	197.4
7.5°	184.9	188.9	189.7	192.6	194.8
10°	176.4	180.5	182.7	187.5	190.8
12.5°	167.6	171.7	175.0	181.2	186.0
15°	157.7	162.1	166.1	173.5	179.4
17.5°	147.4	151.8	157.0	164.3	171.3
20°	136.4	140.4	146.7	153.6	161.0
22.5°	125.7	129.4	136.0	142.6	151.4
25°	114.0	118.0	124.2	132.0	140.8
27.5°	102.6	106.6	112.8	121.7	130.9
30°	91.2	94.8	101.8	111.0	120.9
32.5°	79.4	83.1	90.8	100.7	111.0
35°	68.0	71.7	79.8	90.8	100.7
37.5°	56.6	60.7	69.8	80.1	88.6
40°	45.6	50.4	61.0	69.8	77.2
42.5°	34.6	41.2	52.6	59.9	65.8
45°	24.6	31.6	44.5	50.0	55.1
47.5°	18.7	24.3	36.8	40.8	44.1
50°	16.2	19.8	29.4	32.3	33.8
52.5°	14.0	17.6	23.5	24.6	23.9
55°	12.1	16.2	18.7	17.6	15.8
57.5°	10.3	15.1	15.4	13.2	13.6
60°	8.5	13.6	13.2	11.4	11.8
62.5°	7.0	12.5	11.4	10.3	10.3
65°	5.9	11.0	9.9	9.2	9.2
67.5°	4.8	9.9	8.8	8.1	8.1
70°	4.0	8.8	7.7	7.0	7.0
72.5°	3.7	7.7	7.0	6.2	6.2
75°	2.9	6.6	6.2	5.5	5.1
77.5°	2.6	5.5	5.5	5.1	4.4
80°	2.2	4.8	5.1	4.4	3.7
82.5°	2.2	4.4	4.4	4.0	2.9
85°	1.8	3.7	4.0	3.7	2.6
87.5°	1.1	3.3	3.3	2.9	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)