

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: P1057929

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057929
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-S290D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

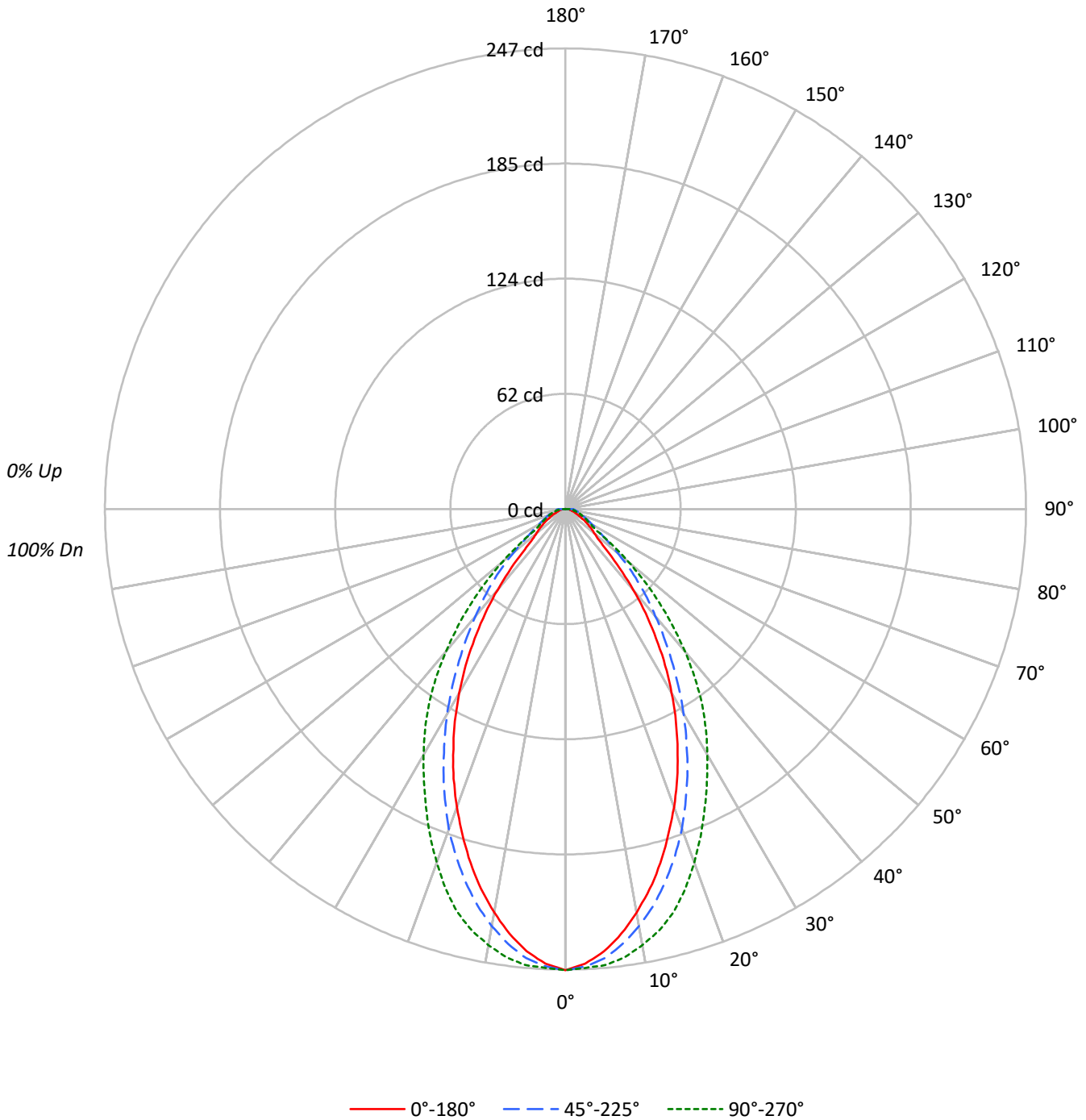
Lumens per Lamp: N/A
Luminaire Lumens: 300.1 lumens
Efficiency: N/A
Efficacy: 24.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1057929

CATALOG NUMBER: S122RDR-S290D935-X4F0-XX-UDD-SVL-W

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°	4565	4565	4565
5°	4412	4481	4549
10°	4118	4257	4450
15°	3758	3954	4277
20°	3342	3588	3963
25°	2897	3152	3600
30°	2429	2702	3243
35°	1912	2237	2874
40°	1363	1807	2399
45°	806	1430	1861
50°	580	1033	1266
55°	486	746	640
60°	395	598	543
65°	323	528	498
70°	275	518	475
75°	264	528	471
80°	276	627	510
85°	381	1016	614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1861 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.7	7.6
10°-20°	58.3	19.4
20°-30°	71.9	24.0
30°-40°	64.0	21.3
40°-50°	40.8	13.6
50°-60°	19.6	6.5
60°-70°	11.5	3.8
70°-80°	7.4	2.5
80°-90°	3.9	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°	152.9	51.0
0°-40°	216.9	72.3
0°-60°	277.3	92.4
0°-90°	300.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	300.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	247	247	247	247	247	
5°	238	243	242	243	246	22
15°	197	202	207	216	224	55
25°	142	148	155	166	177	65
35°	85	92	99	114	128	53
45°	31	40	55	64	71	26
55°	15	20	23	22	20	14
65°	7	13	12	11	11	7
75°	4	8	7	7	7	4
85°	2	4	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°	247.4	247.4	247.4	247.4	247.4
2.5°	244.1	248.2	245.6	245.6	246.3
5°	238.2	242.6	241.9	243.4	245.6
7.5°	229.8	234.6	235.3	239.3	242.6
10°	219.8	225.0	227.2	233.1	237.5
12.5°	208.8	214.0	218.0	225.4	231.6
15°	196.7	201.5	207.0	216.5	223.9
17.5°	183.4	189.7	195.2	205.1	213.6
20°	170.2	176.1	182.7	192.3	201.8
22.5°	156.6	162.1	168.7	178.7	189.7
25°	142.3	147.8	154.8	165.8	176.8
27.5°	128.3	133.8	140.4	152.6	164.3
30°	114.0	119.5	126.8	139.3	152.2
32.5°	99.6	105.5	112.9	126.5	140.1
35°	84.9	91.5	99.3	114.3	127.6
37.5°	70.6	77.2	86.8	101.5	114.0
40°	56.6	64.3	75.0	88.2	99.6
42.5°	43.0	51.5	64.7	75.4	85.3
45°	30.9	40.1	54.8	63.6	71.3
47.5°	23.5	30.1	45.2	52.2	57.7
50°	20.2	24.3	36.0	41.2	44.1
52.5°	17.6	21.3	28.7	31.2	31.2
55°	15.1	19.5	23.2	22.4	19.9
57.5°	12.9	17.6	19.1	16.2	16.9
60°	10.7	16.2	16.2	14.3	14.7
62.5°	8.8	15.1	14.0	12.5	12.9
65°	7.4	13.2	12.1	11.0	11.4
67.5°	5.9	11.8	10.7	9.9	9.9
70°	5.1	10.7	9.6	8.8	8.8
72.5°	4.4	9.2	8.5	7.7	7.7
75°	3.7	8.1	7.4	7.0	6.6
77.5°	3.3	7.0	6.6	5.9	5.5
80°	2.6	5.9	5.9	5.5	4.8
82.5°	2.2	5.1	5.1	4.8	4.0
85°	1.8	4.4	4.8	4.0	2.9
87.5°	1.5	4.0	4.0	3.3	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)