

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: P1057909

Luminaire Tested: S122RDR-S290D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-20)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S290D927-X4F0-XX-UDD-SVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

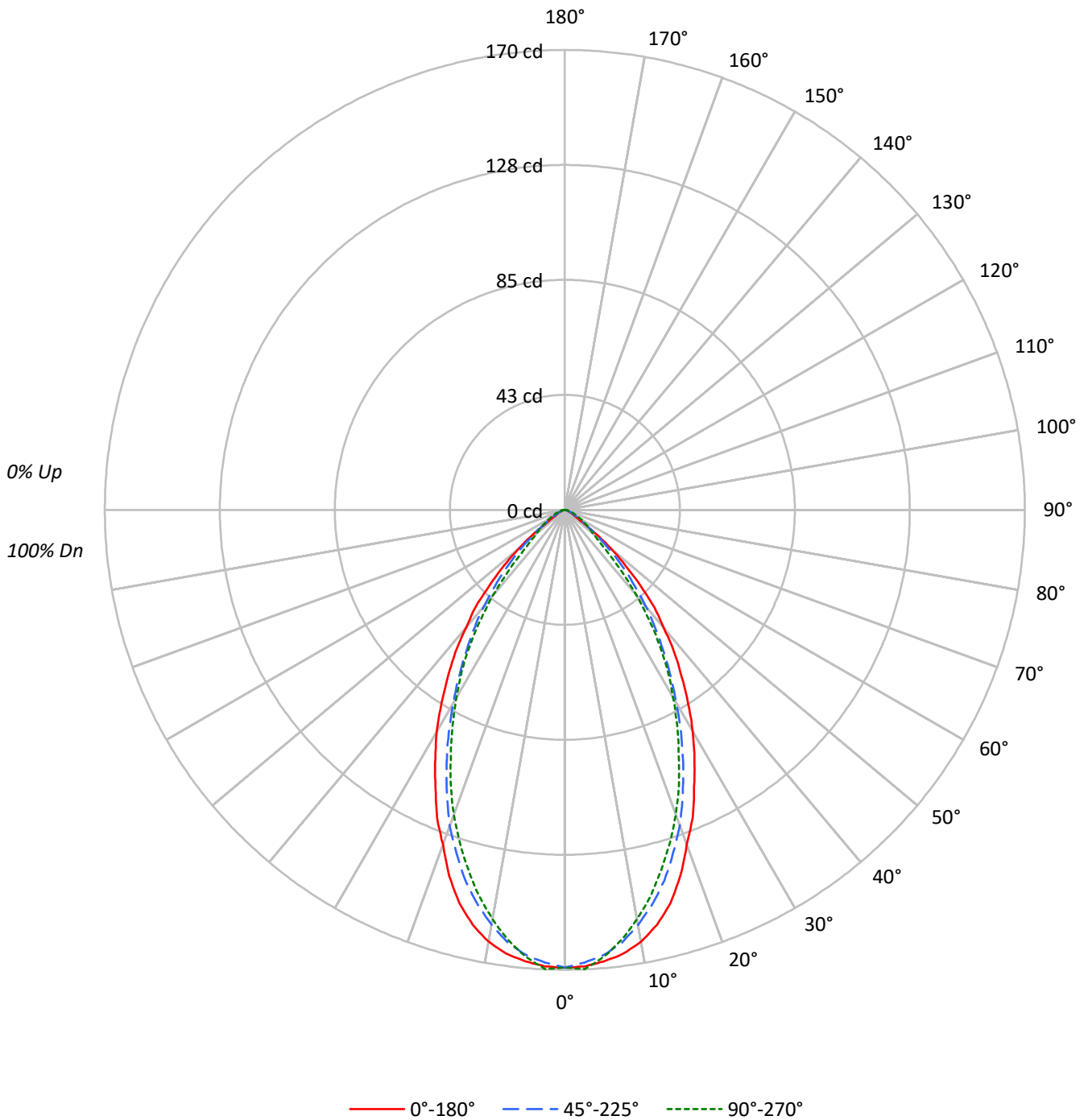
Lumens per Lamp: N/A
Luminaire Lumens: 182.0 lumens
Efficiency: N/A
Efficacy: 14.6 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	
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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3122	3122	3122
5°	3103	3060	3071
10°	3037	2917	2880
15°	2877	2711	2632
20°	2586	2441	2354
25°	2303	2105	2028
30°	2016	1756	1705
35°	1696	1424	1376
40°	1366	1123	992
45°	1023	812	590
50°	640	522	388
55°	219	283	315
60°	125	173	251
65°	87	118	192
70°	76	92	146
75°	50	71	121
80°	32	74	106
85°	0	0	64

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1023 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.6	8.6
10°-20°	39.9	21.9
20°-30°	48.1	26.4
30°-40°	41.1	22.6
40°-50°	24.1	13.2
50°-60°	8.7	4.8
60°-70°	3.1	1.7
70°-80°	1.2	0.7
80°-90°	0.2	0.1
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°	103.6	56.9
0°-40°	144.7	79.5
0°-60°	177.4	97.5
0°-90°	182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	169	169	169	169	169	
5°	168	168	165	166	166	16
15°	151	148	142	139	138	42
25°	113	108	103	102	100	52
35°	75	70	63	62	61	47
45°	39	35	31	26	23	30
55°	7	10	9	9	10	8
65°	2	2	3	4	4	2
75°	1	1	1	1	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	169.2	169.2	169.2	169.2	169.2
2.5°	168.9	169.2	167.5	169.2	169.9
5°	167.5	167.9	165.2	165.8	165.8
7.5°	165.5	165.2	161.4	160.8	160.4
10°	162.1	161.1	155.7	154.7	153.7
12.5°	157.1	155.0	149.3	147.6	146.2
15°	150.6	148.3	141.9	139.2	137.8
17.5°	141.9	139.2	133.1	130.4	129.0
20°	131.7	129.0	124.3	121.3	119.9
22.5°	123.3	118.9	113.8	111.8	110.1
25°	113.1	108.4	103.4	101.7	99.6
27.5°	103.7	97.9	92.9	91.5	89.8
30°	94.6	88.5	82.4	82.4	80.0
32.5°	84.8	79.0	72.6	72.3	70.9
35°	75.3	69.6	63.2	62.5	61.1
37.5°	66.5	60.8	54.7	52.7	51.0
40°	56.7	51.7	46.6	43.2	41.2
42.5°	49.0	43.2	38.2	34.1	31.4
45°	39.2	35.1	31.1	26.0	22.6
47.5°	30.4	27.7	24.3	18.6	16.9
50°	22.3	20.9	18.2	13.8	13.5
52.5°	14.2	14.9	13.2	10.8	11.8
55°	6.8	9.5	8.8	9.1	9.8
57.5°	4.4	4.7	6.4	7.4	8.1
60°	3.4	3.4	4.7	6.1	6.8
62.5°	2.7	2.7	3.7	5.1	5.4
65°	2.0	2.4	2.7	3.7	4.4
67.5°	1.7	1.7	2.0	3.0	3.4
70°	1.4	1.4	1.7	2.4	2.7
72.5°	1.0	1.0	1.4	2.0	2.0
75°	0.7	1.0	1.0	1.4	1.7
77.5°	0.7	0.7	0.7	1.0	1.4
80°	0.3	0.3	0.7	0.7	1.0
82.5°	0.3	0.3	0.3	0.3	0.7
85°	0.0	0.0	0.0	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)