

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: P1057927

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057927
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-S290D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

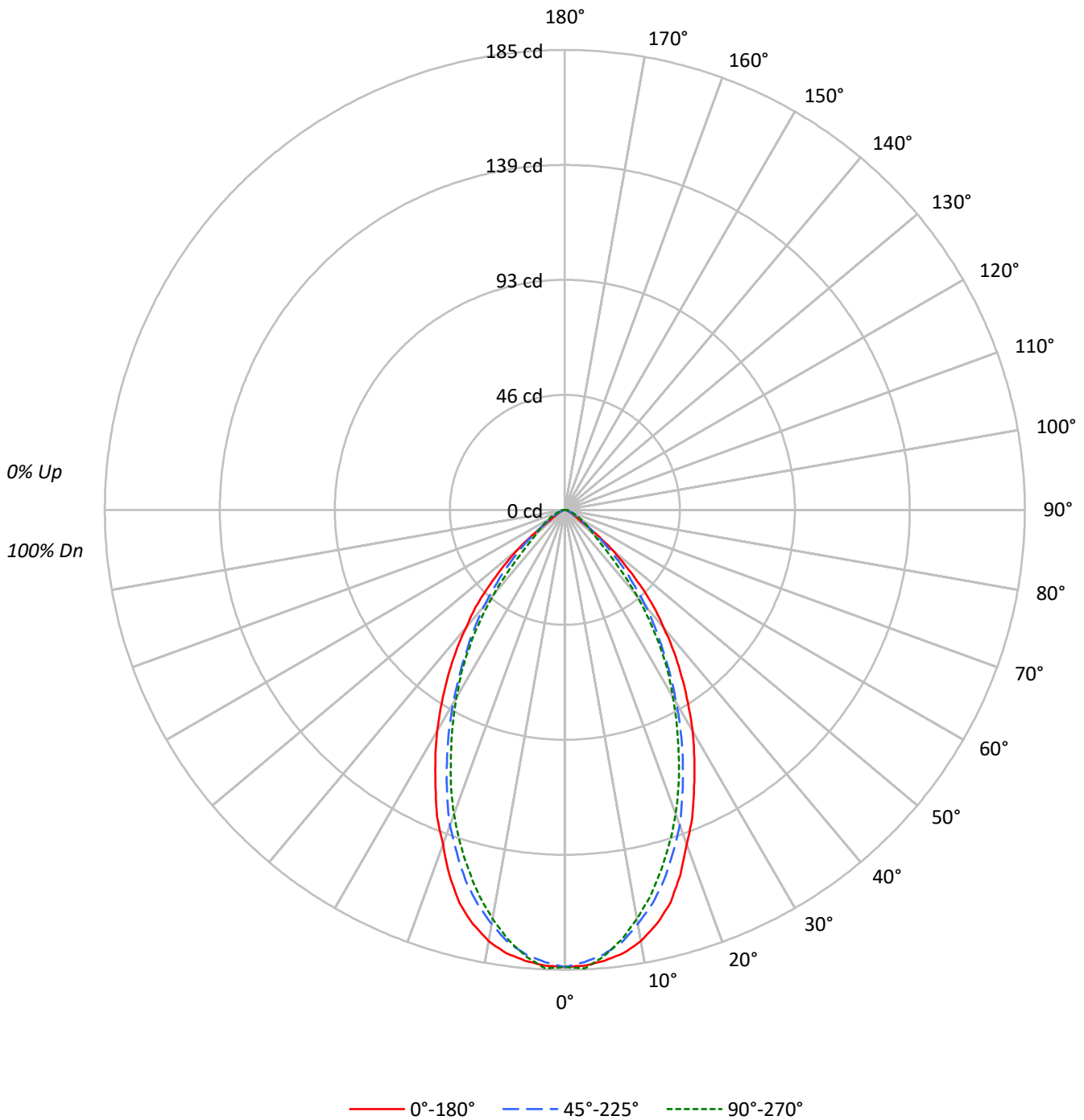
Lumens per Lamp: N/A
Luminaire Lumens: 197.8 lumens
Efficiency: N/A
Efficacy: 15.8 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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°	3393	3393	3393
5°	3373	3325	3338
10°	3301	3170	3129
15°	3127	2946	2862
20°	2812	2653	2559
25°	2504	2286	2205
30°	2190	1909	1854
35°	1845	1545	1496
40°	1486	1221	1079
45°	1112	882	642
50°	695	568	422
55°	235	306	341
60°	137	188	269
65°	96	127	210
70°	81	97	156
75°	50	78	128
80°	43	74	117
85°	0	0	85

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1112 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.9	8.6
10°-20°	43.4	21.9
20°-30°	52.3	26.4
30°-40°	44.6	22.6
40°-50°	26.2	13.2
50°-60°	9.5	4.8
60°-70°	3.4	1.7
70°-80°	1.3	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°	112.6	56.9
0°-40°	157.2	79.5
0°-60°	192.9	97.5
0°-90°	197.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	197.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	184	184	184	184	184	
5°	182	182	180	180	180	17
15°	164	161	154	151	150	45
25°	123	118	112	110	108	56
35°	82	76	69	68	66	51
45°	43	38	34	28	25	33
55°	7	10	10	10	11	9
65°	2	3	3	4	5	2
75°	1	1	1	2	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°	183.9	183.9	183.9	183.9	183.9
2.5°	183.5	183.9	182.1	183.9	184.6
5°	182.1	182.4	179.5	180.2	180.2
7.5°	179.9	179.5	175.5	174.7	174.4
10°	176.2	175.1	169.2	168.1	167.0
12.5°	170.7	168.5	162.3	160.4	159.0
15°	163.7	161.2	154.2	151.2	149.8
17.5°	154.2	151.2	144.6	141.7	140.2
20°	143.2	140.2	135.1	131.8	130.3
22.5°	134.0	129.2	123.7	121.5	119.7
25°	123.0	117.8	112.3	110.5	108.3
27.5°	112.7	106.5	101.0	99.5	97.6
30°	102.8	96.2	89.6	89.6	87.0
32.5°	92.1	85.9	78.9	78.6	77.1
35°	81.9	75.6	68.6	67.9	66.4
37.5°	72.3	66.1	59.5	57.3	55.4
40°	61.7	56.2	50.7	47.0	44.8
42.5°	53.2	47.0	41.5	37.1	34.1
45°	42.6	38.2	33.8	28.3	24.6
47.5°	33.0	30.1	26.4	20.2	18.4
50°	24.2	22.8	19.8	15.1	14.7
52.5°	15.4	16.2	14.3	11.7	12.8
55°	7.3	10.3	9.5	9.9	10.6
57.5°	4.8	5.1	7.0	8.1	8.8
60°	3.7	3.7	5.1	6.6	7.3
62.5°	2.9	2.9	4.0	5.5	5.9
65°	2.2	2.6	2.9	4.0	4.8
67.5°	1.8	1.8	2.2	3.3	3.7
70°	1.5	1.5	1.8	2.6	2.9
72.5°	1.1	1.1	1.5	2.2	2.2
75°	0.7	1.1	1.1	1.5	1.8
77.5°	0.7	0.7	0.7	1.1	1.5
80°	0.4	0.4	0.7	0.7	1.1
82.5°	0.4	0.4	0.4	0.4	0.7
85°	0.0	0.0	0.0	0.4	0.4
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)