

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: P1057847

Luminaire Tested: S122RDR-S1005D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057847
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-S1005D935-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

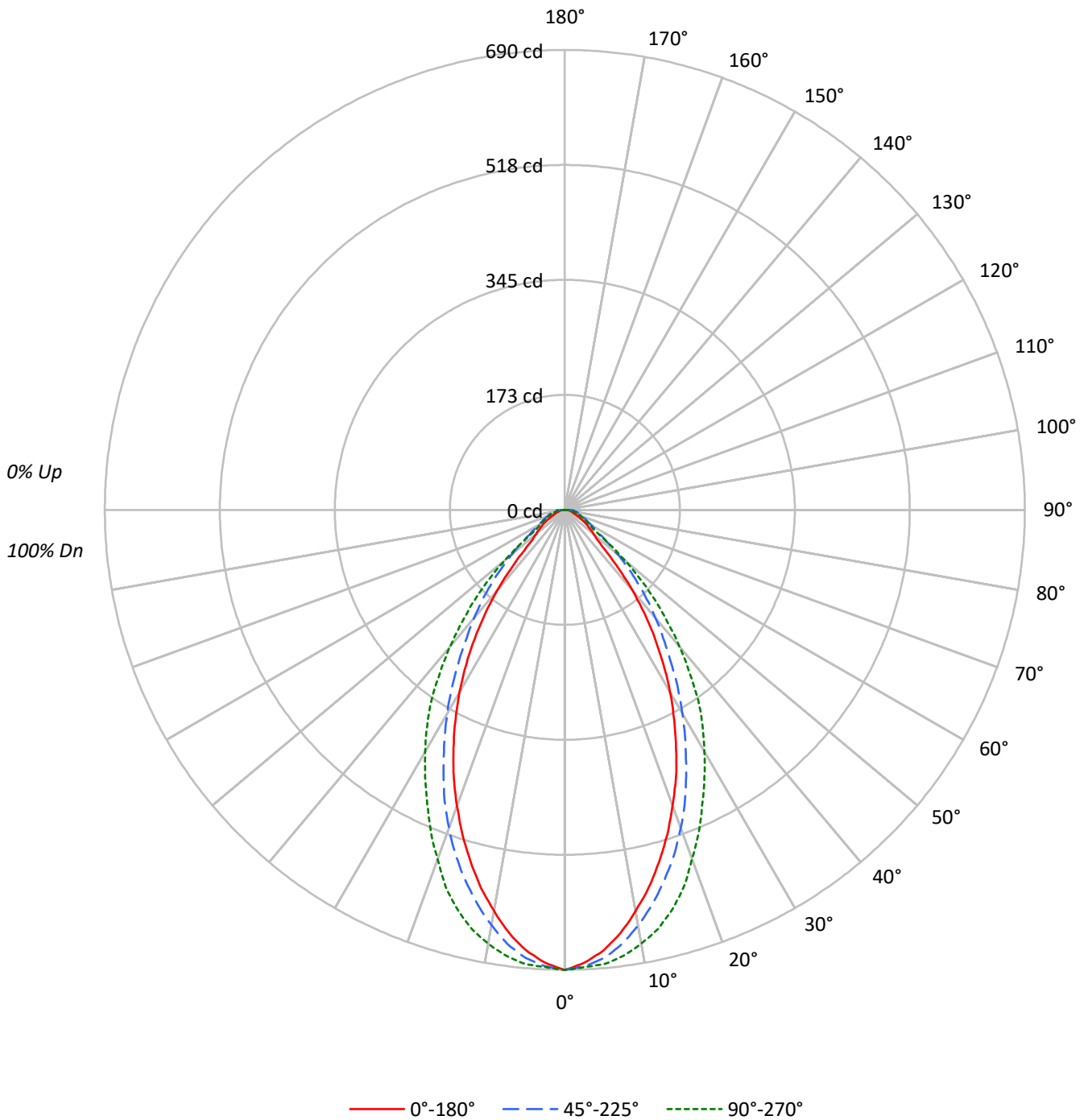
Lumens per Lamp: N/A
Luminaire Lumens: 832.8 lumens
Efficiency: N/A
Efficacy: 19.9 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	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°	12738	12738	12738
5°	12292	12503	12670
10°	11456	11861	12385
15°	10438	10998	11873
20°	9278	9979	10955
25°	8038	8765	9932
30°	6731	7517	8928
35°	5307	6226	7862
40°	3803	5092	6444
45°	2226	4021	4984
50°	1608	2925	3364
55°	1351	2091	1763
60°	1081	1694	1506
65°	891	1502	1388
70°	755	1441	1306
75°	727	1547	1269
80°	808	1891	1350
85°	1355	2964	1884

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4984 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	7.6
10°-20°	162.0	19.5
20°-30°	199.2	23.9
30°-40°	176.1	21.1
40°-50°	112.4	13.5
50°-60°	54.8	6.6
60°-70°	32.7	3.9
70°-80°	20.8	2.5
80°-90°	11.5	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°	424.5	51.0
0°-40°	600.6	72.1
0°-60°	767.8	92.2
0°-90°	832.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	832.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	664	678	675	678	684	62
15°	546	562	576	601	622	152
25°	395	409	430	457	488	181
35°	236	248	276	315	349	146
45°	85	110	154	173	191	72
55°	42	56	65	61	55	38
65°	20	38	34	32	32	20
75°	10	23	22	19	18	11
85°	6	13	14	13	9	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	690.3	690.3	690.3	690.3	690.3
2.5°	680.1	692.9	685.2	685.2	686.5
5°	663.6	677.6	675.0	677.6	684.0
7.5°	640.6	654.7	657.2	667.4	675.0
10°	611.4	625.4	633.0	649.6	661.0
12.5°	580.8	594.8	606.3	627.9	644.5
15°	546.4	561.7	575.7	601.2	621.5
17.5°	510.7	526.0	543.9	569.3	593.5
20°	472.5	486.5	508.2	532.4	557.9
22.5°	435.6	448.3	471.3	494.2	524.7
25°	394.8	408.8	430.5	457.2	487.8
27.5°	355.3	369.4	391.0	421.6	453.4
30°	315.9	328.6	352.8	384.6	419.0
32.5°	275.1	287.8	314.6	349.0	384.6
35°	235.6	248.4	276.4	314.6	349.0
37.5°	196.1	210.2	242.0	277.7	307.0
40°	157.9	174.5	211.4	242.0	267.5
42.5°	119.7	142.6	182.1	207.6	228.0
45°	85.3	109.5	154.1	173.2	191.0
47.5°	65.0	84.1	127.4	141.4	152.8
50°	56.0	68.8	101.9	112.1	117.2
52.5°	48.4	61.1	81.5	85.3	82.8
55°	42.0	56.0	65.0	61.1	54.8
57.5°	35.7	52.2	53.5	45.9	47.1
60°	29.3	47.1	45.9	39.5	40.8
62.5°	24.2	43.3	39.5	35.7	35.7
65°	20.4	38.2	34.4	31.8	31.8
67.5°	16.6	34.4	30.6	28.0	28.0
70°	14.0	30.6	26.7	24.2	24.2
72.5°	12.7	26.7	24.2	21.7	21.7
75°	10.2	22.9	21.7	19.1	17.8
77.5°	8.9	19.1	19.1	17.8	15.3
80°	7.6	16.6	17.8	15.3	12.7
82.5°	7.6	15.3	15.3	14.0	10.2
85°	6.4	12.7	14.0	12.7	8.9
87.5°	3.8	11.5	11.5	10.2	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)