

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: P1061573

Luminaire Tested: S125RDR-S1270D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D935-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 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

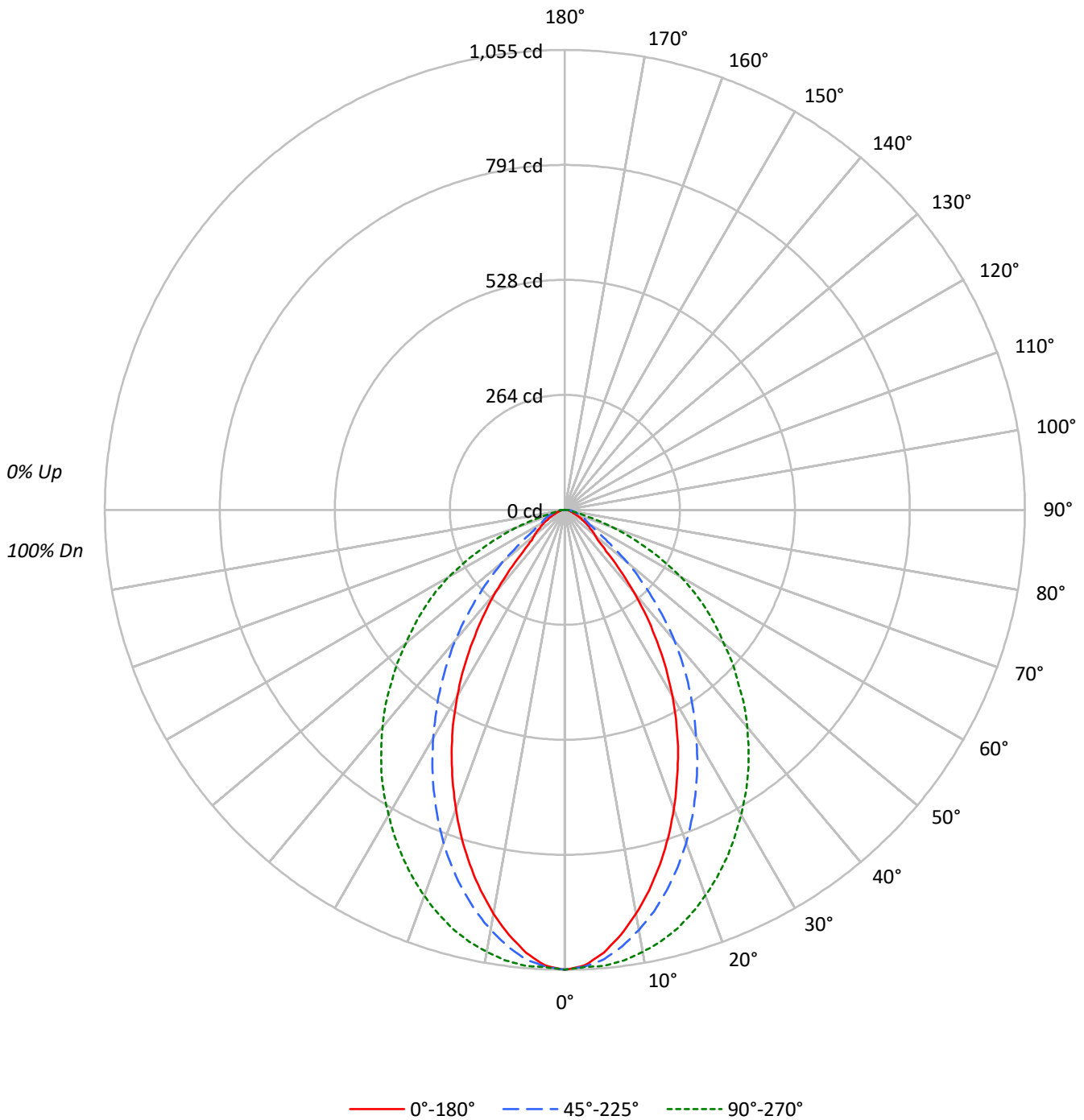
Lumens per Lamp: N/A
Luminaire Lumens: 1523.0 lumens
Efficiency: N/A
Efficacy: 36.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7263	7263	7263
5°	7048	7151	7256
10°	6578	6840	7199
15°	6003	6440	7090
20°	5354	5959	6904
25°	4667	5399	6682
30°	3920	4795	6426
35°	3092	4175	6163
40°	2216	3509	5848
45°	1304	2754	5482
50°	965	1984	5093
55°	811	1202	4731
60°	654	879	4221
65°	510	836	3384
70°	429	781	2293
75°	399	700	998
80°	397	694	646
85°	498	893	695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5482 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	6.4
10°-20°	255.3	16.8
20°-30°	333.7	21.9
30°-40°	324.8	21.3
40°-50°	242.7	15.9
50°-60°	150.5	9.9
60°-70°	79.1	5.2
70°-80°	28.8	1.9
80°-90°	10.9	0.7
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°	686.2	45.1
0°-40°	1011.0	66.4
0°-60°	1404.2	92.2
0°-90°	1523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1020	1034	1035	1041	1050	95
15°	842	867	903	958	995	235
25°	614	646	711	807	880	281
35°	368	408	497	629	733	229
45°	134	175	283	442	563	113
55°	68	71	100	260	394	61
65°	31	34	51	110	208	33
75°	15	18	26	29	38	16
85°	6	11	11	11	9	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.8	1054.8	1054.8	1054.8	1054.8
2.5°	1046.0	1054.8	1048.5	1048.5	1049.8
5°	1019.7	1033.5	1034.7	1041.0	1049.8
7.5°	983.4	999.7	1009.7	1028.5	1042.3
10°	940.9	959.7	978.4	1009.7	1029.7
12.5°	893.4	915.9	943.4	985.9	1014.7
15°	842.1	867.1	903.4	958.4	994.7
17.5°	788.3	814.5	859.6	925.9	969.7
20°	730.7	759.5	813.3	888.4	942.2
22.5°	671.9	704.4	763.2	848.3	912.1
25°	614.3	645.6	710.7	807.0	879.6
27.5°	554.3	586.8	658.1	764.5	844.6
30°	493.0	528.0	603.1	720.7	808.3
32.5°	431.7	467.9	549.3	675.6	772.0
35°	367.9	407.9	496.7	629.4	733.2
37.5°	307.8	350.3	442.9	581.8	691.9
40°	246.5	290.3	390.4	535.5	650.6
42.5°	186.4	231.5	336.6	488.0	609.3
45°	133.9	175.2	282.8	441.7	563.0
47.5°	102.6	126.4	232.7	394.1	521.8
50°	90.1	97.6	185.2	347.8	475.5
52.5°	78.8	83.8	137.6	302.8	435.4
55°	67.6	71.3	100.1	260.3	394.1
57.5°	57.6	61.3	76.3	221.5	351.6
60°	47.5	51.3	63.8	182.7	306.5
62.5°	40.0	41.3	57.6	146.4	256.5
65°	31.3	33.8	51.3	110.1	207.7
67.5°	26.3	27.5	45.0	78.8	160.2
70°	21.3	22.5	38.8	55.1	113.9
72.5°	18.8	18.8	32.5	40.0	72.6
75°	15.0	17.5	26.3	28.8	37.5
77.5°	12.5	17.5	22.5	21.3	20.0
80°	10.0	16.3	17.5	17.5	16.3
82.5°	8.8	13.8	15.0	13.8	12.5
85°	6.3	11.3	11.3	11.3	8.8
87.5°	5.0	10.0	8.8	8.8	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)