

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: P1061555

Luminaire Tested: S125RDR-S1270D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061555
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-S1270D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

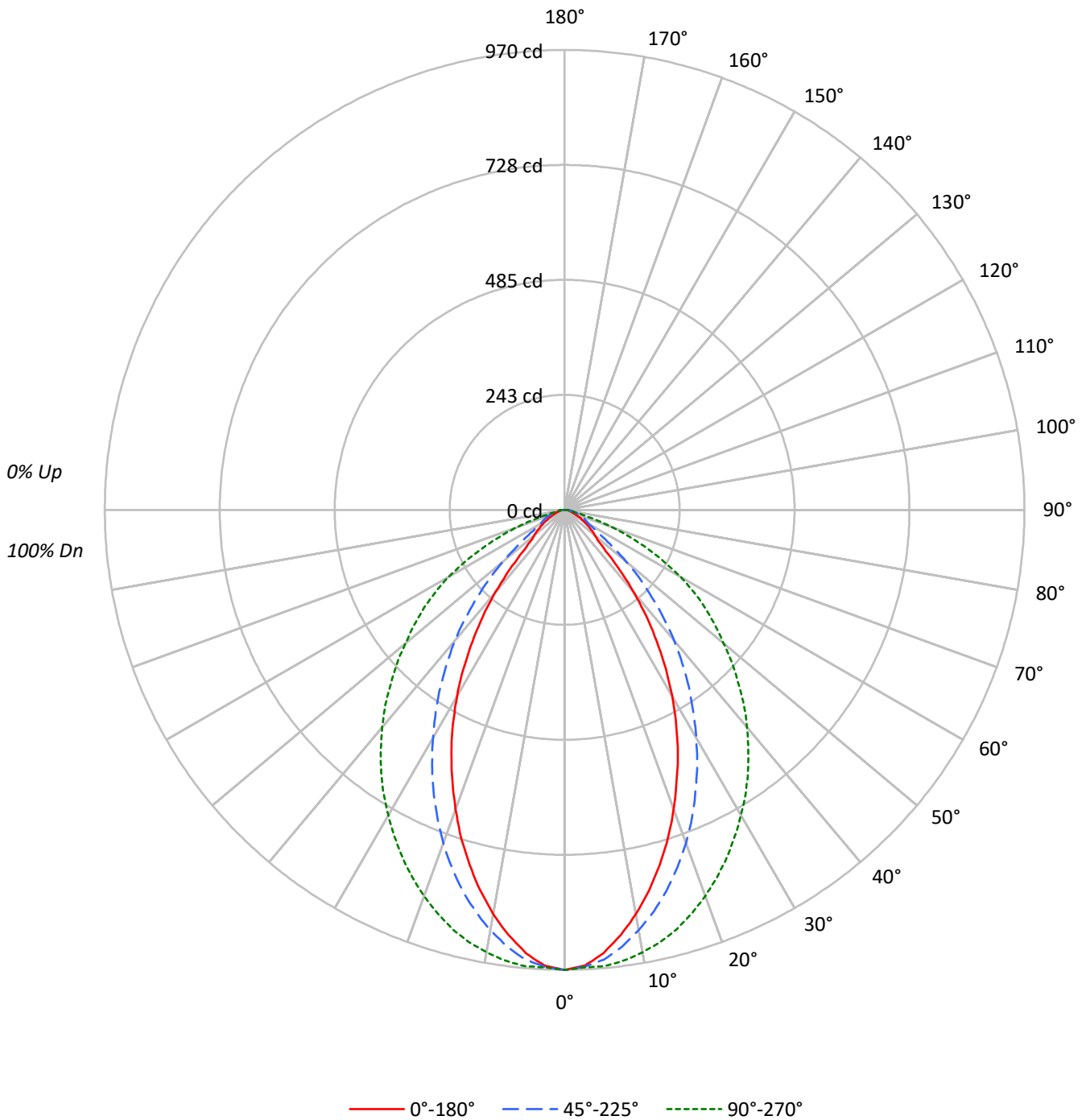
Lumens per Lamp: N/A
Luminaire Lumens: 1401.3 lumens
Efficiency: N/A
Efficacy: 33.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	6682	6682	6682
5°	6484	6580	6676
10°	6053	6294	6624
15°	5523	5925	6524
20°	4926	5483	6352
25°	4294	4968	6148
30°	3606	4412	5913
35°	2845	3841	5670
40°	2038	3229	5380
45°	1200	2534	5044
50°	888	1825	4686
55°	747	1106	4353
60°	602	808	3883
65°	469	769	3113
70°	395	719	2110
75°	367	644	918
80°	365	638	595
85°	458	822	640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5044 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	6.4
10°-20°	234.9	16.8
20°-30°	307.0	21.9
30°-40°	298.8	21.3
40°-50°	223.3	15.9
50°-60°	138.5	9.9
60°-70°	72.8	5.2
70°-80°	26.5	1.9
80°-90°	10.0	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°	631.3	45.1
0°-40°	930.2	66.4
0°-60°	1292.0	92.2
0°-90°	1401.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1401.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	938	951	952	958	966	87
15°	775	798	831	882	915	216
25°	565	594	654	742	809	258
35°	338	375	457	579	675	211
45°	123	161	260	406	518	104
55°	62	66	92	239	363	56
65°	29	31	47	101	191	30
75°	14	16	24	26	34	15
85°	6	10	10	10	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.5	970.5	970.5	970.5	970.5
2.5°	962.4	970.5	964.7	964.7	965.9
5°	938.2	950.9	952.0	957.8	965.9
7.5°	904.8	919.8	929.0	946.3	958.9
10°	865.7	883.0	900.2	929.0	947.4
12.5°	822.0	842.7	868.0	907.1	933.6
15°	774.8	797.8	831.2	881.8	915.2
17.5°	725.3	749.4	790.9	851.9	892.2
20°	672.3	698.8	748.3	817.4	866.9
22.5°	618.2	648.1	702.2	780.5	839.2
25°	565.2	594.0	653.9	742.5	809.3
27.5°	510.0	539.9	605.5	703.4	777.1
30°	453.6	485.8	554.9	663.1	743.7
32.5°	397.2	430.5	505.4	621.6	710.3
35°	338.5	375.3	457.0	579.1	674.6
37.5°	283.2	322.3	407.5	535.3	636.6
40°	226.8	267.1	359.2	492.7	598.6
42.5°	171.5	213.0	309.7	449.0	560.6
45°	123.2	161.2	260.2	406.4	518.0
47.5°	94.4	116.3	214.1	362.6	480.0
50°	82.9	89.8	170.4	320.0	437.5
52.5°	72.5	77.1	126.6	278.6	400.6
55°	62.2	65.6	92.1	239.4	362.6
57.5°	53.0	56.4	70.2	203.8	323.5
60°	43.7	47.2	58.7	168.1	282.0
62.5°	36.8	38.0	53.0	134.7	236.0
65°	28.8	31.1	47.2	101.3	191.1
67.5°	24.2	25.3	41.4	72.5	147.4
70°	19.6	20.7	35.7	50.7	104.8
72.5°	17.3	17.3	29.9	36.8	66.8
75°	13.8	16.1	24.2	26.5	34.5
77.5°	11.5	16.1	20.7	19.6	18.4
80°	9.2	15.0	16.1	16.1	15.0
82.5°	8.1	12.7	13.8	12.7	11.5
85°	5.8	10.4	10.4	10.4	8.1
87.5°	4.6	9.2	8.1	8.1	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)