

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: P1061699

Luminaire Tested: S125RDR-S610D840-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061699
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-S610D840-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

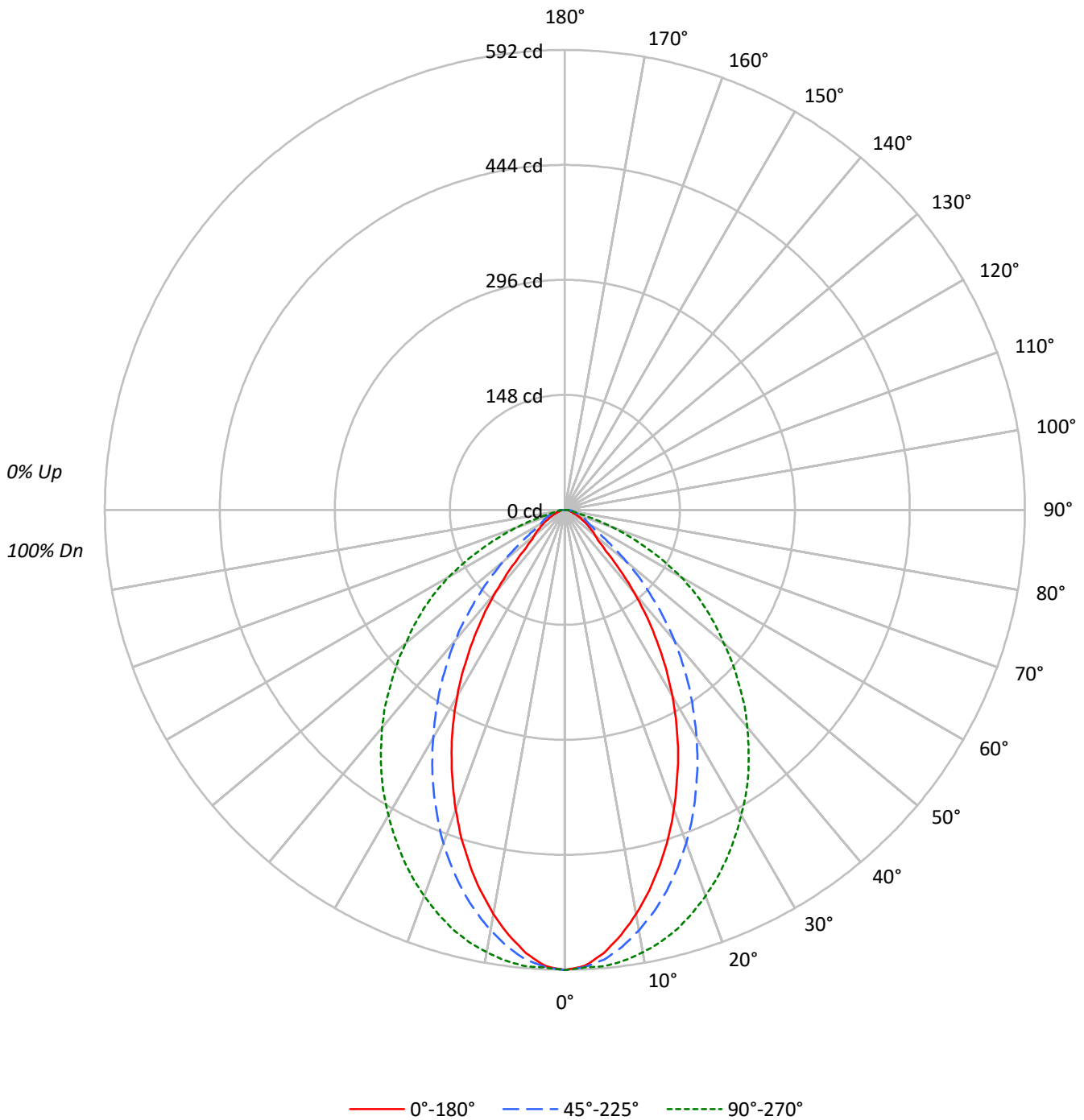
Lumens per Lamp: N/A
Luminaire Lumens: 855.3 lumens
Efficiency: N/A
Efficacy: 43.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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

TEST NUMBER: P1061699

CATALOG NUMBER: S125RDR-S610D840-X4F0-XX-UDD-SVL-S

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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°	4079	4079	4079
5°	3958	4016	4075
10°	3694	3842	4043
15°	3371	3616	3982
20°	3007	3347	3877
25°	2621	3032	3753
30°	2201	2693	3609
35°	1737	2345	3461
40°	1244	1970	3284
45°	732	1546	3079
50°	542	1114	2860
55°	455	675	2656
60°	368	493	2371
65°	287	469	1900
70°	240	439	1286
75°	223	394	561
80°	222	389	361
85°	276	498	387

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3079 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	6.4
10°-20°	143.4	16.8
20°-30°	187.4	21.9
30°-40°	182.4	21.3
40°-50°	136.3	15.9
50°-60°	84.6	9.9
60°-70°	44.4	5.2
70°-80°	16.2	1.9
80°-90°	6.1	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°	385.4	45.1
0°-40°	567.8	66.4
0°-60°	788.7	92.2
0°-90°	855.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	855.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	573	580	581	585	590	53
15°	473	487	507	538	559	132
25°	345	363	399	453	494	158
35°	207	229	279	354	412	129
45°	75	98	159	248	316	63
55°	38	40	56	146	221	34
65°	18	19	29	62	117	18
75°	8	10	15	16	21	9
85°	4	6	6	6	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	592.4	592.4	592.4	592.4	592.4
2.5°	587.5	592.4	588.9	588.9	589.6
5°	572.7	580.4	581.1	584.6	589.6
7.5°	552.3	561.5	567.1	577.6	585.3
10°	528.4	539.0	549.5	567.1	578.3
12.5°	501.7	514.4	529.8	553.7	569.9
15°	472.9	487.0	507.3	538.3	558.6
17.5°	442.7	457.5	482.8	520.0	544.6
20°	410.4	426.5	456.8	498.9	529.1
22.5°	377.3	395.6	428.6	476.4	512.3
25°	345.0	362.6	399.1	453.2	494.0
27.5°	311.3	329.6	369.6	429.3	474.3
30°	276.9	296.5	338.7	404.8	453.9
32.5°	242.4	262.8	308.5	379.5	433.6
35°	206.6	229.1	279.0	353.5	411.8
37.5°	172.9	196.8	248.8	326.8	388.6
40°	138.4	163.0	219.2	300.8	365.4
42.5°	104.7	130.0	189.0	274.1	342.2
45°	75.2	98.4	158.8	248.1	316.2
47.5°	57.6	71.0	130.7	221.3	293.0
50°	50.6	54.8	104.0	195.3	267.0
52.5°	44.3	47.1	77.3	170.1	244.5
55°	37.9	40.1	56.2	146.2	221.3
57.5°	32.3	34.4	42.9	124.4	197.5
60°	26.7	28.8	35.8	102.6	172.2
62.5°	22.5	23.2	32.3	82.2	144.1
65°	17.6	19.0	28.8	61.8	116.6
67.5°	14.8	15.5	25.3	44.3	89.9
70°	11.9	12.6	21.8	30.9	63.9
72.5°	10.5	10.5	18.3	22.5	40.8
75°	8.4	9.8	14.8	16.2	21.1
77.5°	7.0	9.8	12.6	11.9	11.2
80°	5.6	9.1	9.8	9.8	9.1
82.5°	4.9	7.7	8.4	7.7	7.0
85°	3.5	6.3	6.3	6.3	4.9
87.5°	2.8	5.6	4.9	4.9	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)