

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: P1061751

Luminaire Tested: S125RDR-S610D950-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D950-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

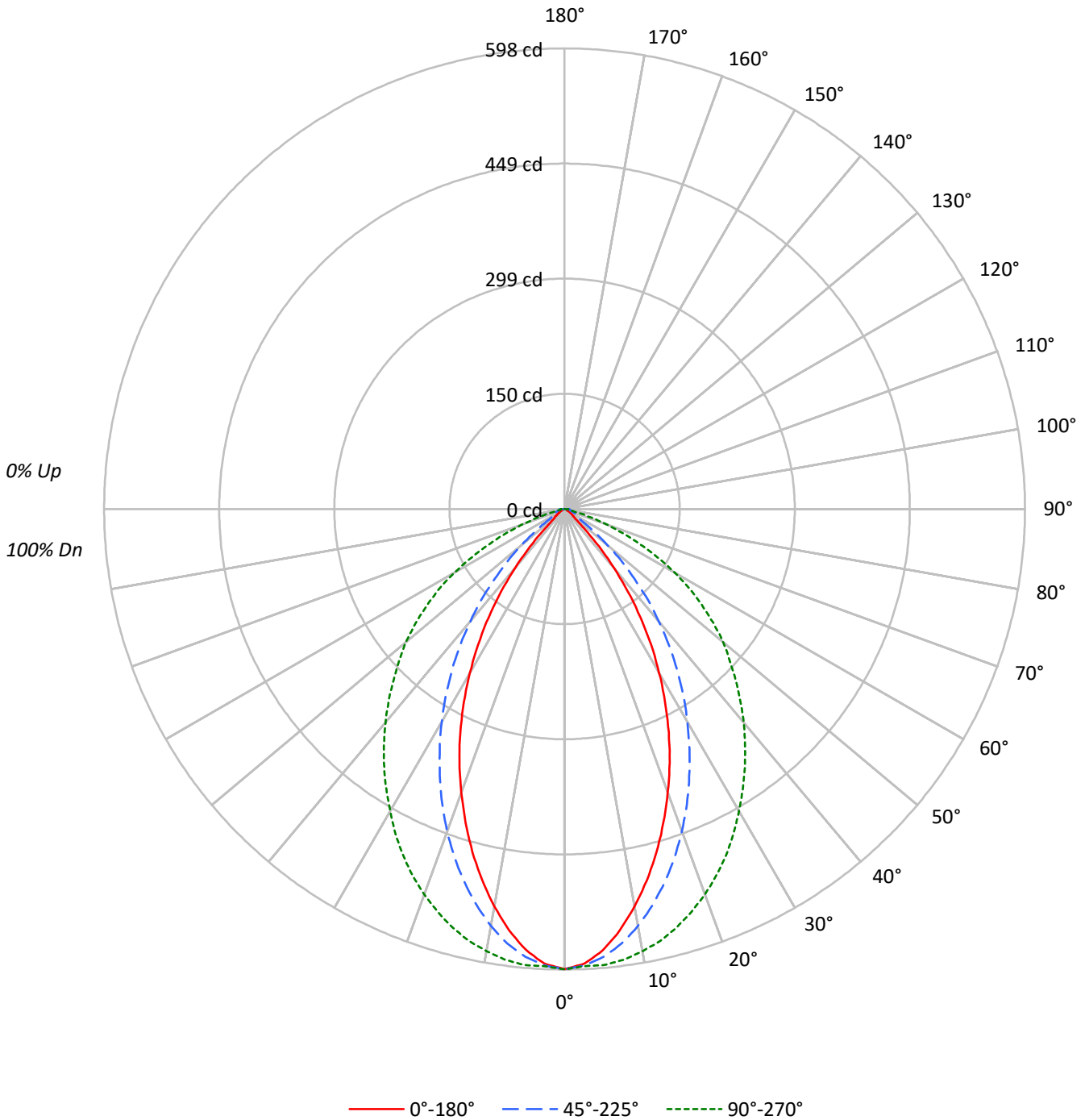
Lumens per Lamp: N/A
Luminaire Lumens: 773.2 lumens
Efficiency: N/A
Efficacy: 39.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061751

CATALOG NUMBER: S125RDR-S610D950-X4F0-XX-UDD-BVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1061751

CATALOG NUMBER: S125RDR-S610D950-X4F0-XX-UDD-BVL-W

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4115	4115	4115
5°	3974	4034	4108
10°	3663	3844	4076
15°	3290	3578	4009
20°	2871	3265	3902
25°	2432	2910	3768
30°	1953	2534	3601
35°	1446	2137	3433
40°	895	1707	3253
45°	350	1248	3058
50°	164	782	2880
55°	120	335	2614
60°	83	238	2268
65°	54	249	1763
70°	54	227	1109
75°	72	229	354
80°	107	262	238
85°	158	521	363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3058 cd/sqm



TEST NUMBER: P1061751

CATALOG NUMBER: S125RDR-S610D950-X4F0-XX-UDD-BVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	7.1
10°-20°	142.0	18.4
20°-30°	180.9	23.4
30°-40°	168.3	21.8
40°-50°	115.9	15.0
50°-60°	65.6	8.5
60°-70°	31.0	4.0
70°-80°	9.7	1.3
80°-90°	5.1	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°	377.7	48.8
0°-40°	546.0	70.6
0°-60°	727.5	94.1
0°-90°	773.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	773.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	575	583	584	589	594	53
15°	462	477	502	540	562	129
25°	320	341	383	448	496	146
35°	172	196	254	341	408	106
45°	36	57	128	232	314	34
55°	10	11	28	134	218	9
65°	3	4	15	48	108	4
75°	3	6	9	9	13	3
85°	2	5	7	6	5	2
90°	0	0	0	0	0	



TEST NUMBER: P1061751

CATALOG NUMBER: S125RDR-S610D950-X4F0-XX-UDD-BVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	597.6	597.6	597.6	597.6	597.6
2.5°	591.0	597.0	593.0	593.6	594.3
5°	575.0	583.0	583.7	589.0	594.3
7.5°	551.8	561.8	569.1	581.7	590.3
10°	523.9	535.9	549.8	570.4	583.0
12.5°	494.0	508.0	527.2	556.5	574.4
15°	461.5	476.8	502.0	539.9	562.4
17.5°	427.0	444.2	474.8	519.9	548.5
20°	391.8	410.4	445.6	497.4	532.6
22.5°	356.6	375.8	415.0	472.8	515.3
25°	320.1	340.6	383.1	447.6	496.0
27.5°	282.9	304.1	351.3	421.7	475.4
30°	245.7	268.3	318.7	395.1	452.9
32.5°	209.2	231.7	286.9	368.5	431.0
35°	172.0	195.9	254.3	341.3	408.4
37.5°	134.8	160.7	222.4	313.4	385.1
40°	99.6	124.2	189.9	286.2	361.9
42.5°	66.4	90.3	160.7	259.0	338.0
45°	35.9	57.1	128.2	231.7	314.1
47.5°	19.3	30.5	100.3	205.2	290.8
50°	15.3	17.3	73.0	180.6	268.9
52.5°	12.6	13.9	47.8	157.4	243.7
55°	10.0	11.3	27.9	133.5	217.8
57.5°	8.0	9.3	17.9	110.9	192.6
60°	6.0	7.3	17.3	89.0	164.7
62.5°	4.6	5.3	15.9	68.4	135.5
65°	3.3	4.0	15.3	47.8	108.2
67.5°	2.7	3.3	13.9	30.5	81.0
70°	2.7	2.7	11.3	19.9	55.1
72.5°	2.7	4.6	10.0	13.3	33.2
75°	2.7	6.0	8.6	9.3	13.3
77.5°	2.7	6.6	7.3	7.3	7.3
80°	2.7	6.0	6.6	6.6	6.0
82.5°	2.7	5.3	6.0	6.6	5.3
85°	2.0	5.3	6.6	6.0	4.6
87.5°	2.0	5.3	6.0	5.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)