

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: P1061691

Luminaire Tested: S125RDR-S610D835-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D835-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

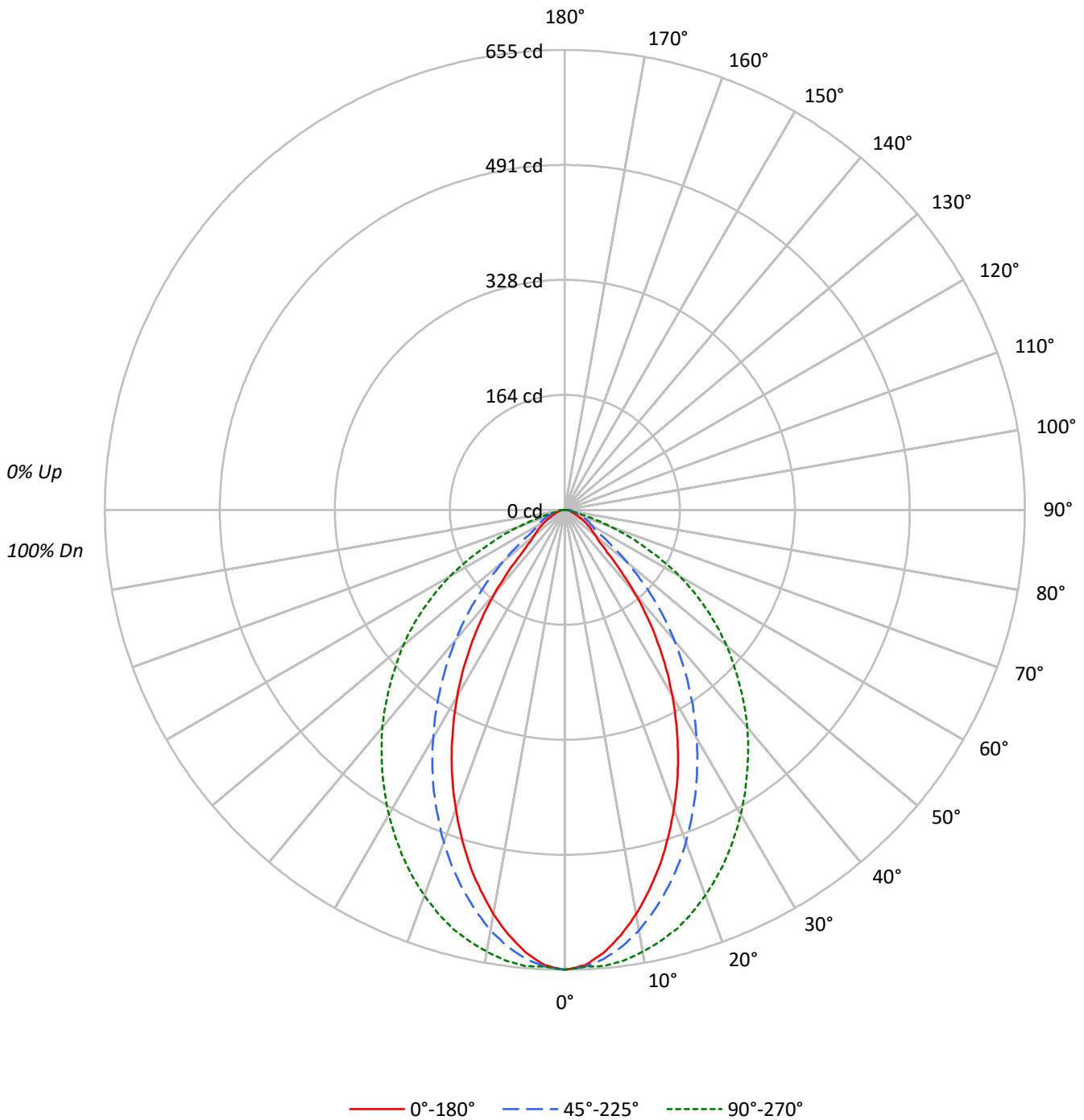
Lumens per Lamp: N/A
Luminaire Lumens: 948.6 lumens
Efficiency: N/A
Efficacy: 48.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1061691

CATALOG NUMBER: S125RDR-S610D835-X4F0-XX-UDD-SVL-W

Luminous Intensity Polar Plot



TEST NUMBER: P1061691

CATALOG NUMBER: S125RDR-S610D835-X4F0-XX-UDD-SVL-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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4509	4509	4509
5°	4377	4435	4507
10°	4087	4253	4467
15°	3731	3993	4400
20°	3325	3692	4283
25°	2898	3352	4145
30°	2434	2982	3984
35°	1937	2591	3808
40°	1395	2177	3634
45°	827	1728	3423
50°	612	1230	3220
55°	517	760	2949
60°	421	613	2597
65°	329	567	2053
70°	280	491	1373
75°	258	426	556
80°	278	440	385
85°	332	664	442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3423 cd/sqm



TEST NUMBER: P1061691

CATALOG NUMBER: S125RDR-S610D835-X4F0-XX-UDD-SVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	6.4
10°-20°	158.5	16.7
20°-30°	207.2	21.8
30°-40°	201.8	21.3
40°-50°	151.4	16.0
50°-60°	94.9	10.0
60°-70°	49.4	5.2
70°-80°	17.9	1.9
80°-90°	7.1	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°	426.1	44.9
0°-40°	627.9	66.2
0°-60°	874.2	92.2
0°-90°	948.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	948.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	633	642	642	646	652	59
15°	523	539	560	595	617	146
25°	381	402	441	501	546	174
35°	230	255	308	390	453	143
45°	85	110	178	274	352	71
55°	43	45	63	166	246	38
65°	20	22	35	67	126	21
75°	10	13	16	17	21	11
85°	4	7	8	8	6	4
90°	0	0	0	0	0	



TEST NUMBER: P1061691

CATALOG NUMBER: S125RDR-S610D835-X4F0-XX-UDD-SVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	654.9	654.9	654.9	654.9	654.9
2.5°	649.3	655.6	651.4	651.4	651.4
5°	633.3	641.7	641.7	646.5	652.1
7.5°	611.0	620.8	627.0	638.9	647.2
10°	584.6	596.4	608.3	627.7	638.9
12.5°	554.7	568.6	585.3	612.4	629.1
15°	523.4	538.7	560.2	595.0	617.3
17.5°	489.2	507.3	533.1	574.9	602.0
20°	453.8	471.9	503.9	551.2	584.6
22.5°	418.3	437.7	472.5	526.1	565.8
25°	381.4	402.3	441.2	501.1	545.6
27.5°	343.8	365.4	408.5	475.3	523.4
30°	306.2	328.5	375.1	447.5	501.1
32.5°	268.6	292.3	341.7	419.0	477.4
35°	230.4	254.7	308.3	390.4	453.1
37.5°	193.5	217.8	274.9	361.2	428.7
40°	155.2	181.6	242.2	332.0	404.3
42.5°	117.6	144.8	209.5	302.7	377.9
45°	84.9	110.0	177.5	274.2	351.5
47.5°	65.4	79.3	144.8	245.0	325.7
50°	57.1	61.2	114.8	217.8	300.6
52.5°	49.4	52.2	86.3	192.8	273.5
55°	43.1	45.2	63.3	165.6	245.7
57.5°	36.2	39.0	50.1	139.2	217.1
60°	30.6	32.0	44.5	114.8	188.6
62.5°	25.1	26.4	39.7	90.5	156.6
65°	20.2	21.6	34.8	66.8	126.0
67.5°	16.7	17.4	29.2	47.3	96.7
70°	13.9	14.6	24.4	32.7	68.2
72.5°	11.8	13.9	19.5	23.7	43.1
75°	9.7	13.2	16.0	16.7	20.9
77.5°	8.4	12.5	13.2	13.2	11.8
80°	7.0	10.4	11.1	10.4	9.7
82.5°	5.6	8.4	9.0	9.0	7.7
85°	4.2	7.0	8.4	7.7	5.6
87.5°	2.8	6.3	7.0	6.3	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)