

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: P1061753

Luminaire Tested: S125RDR-S610D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061753
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-S610D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

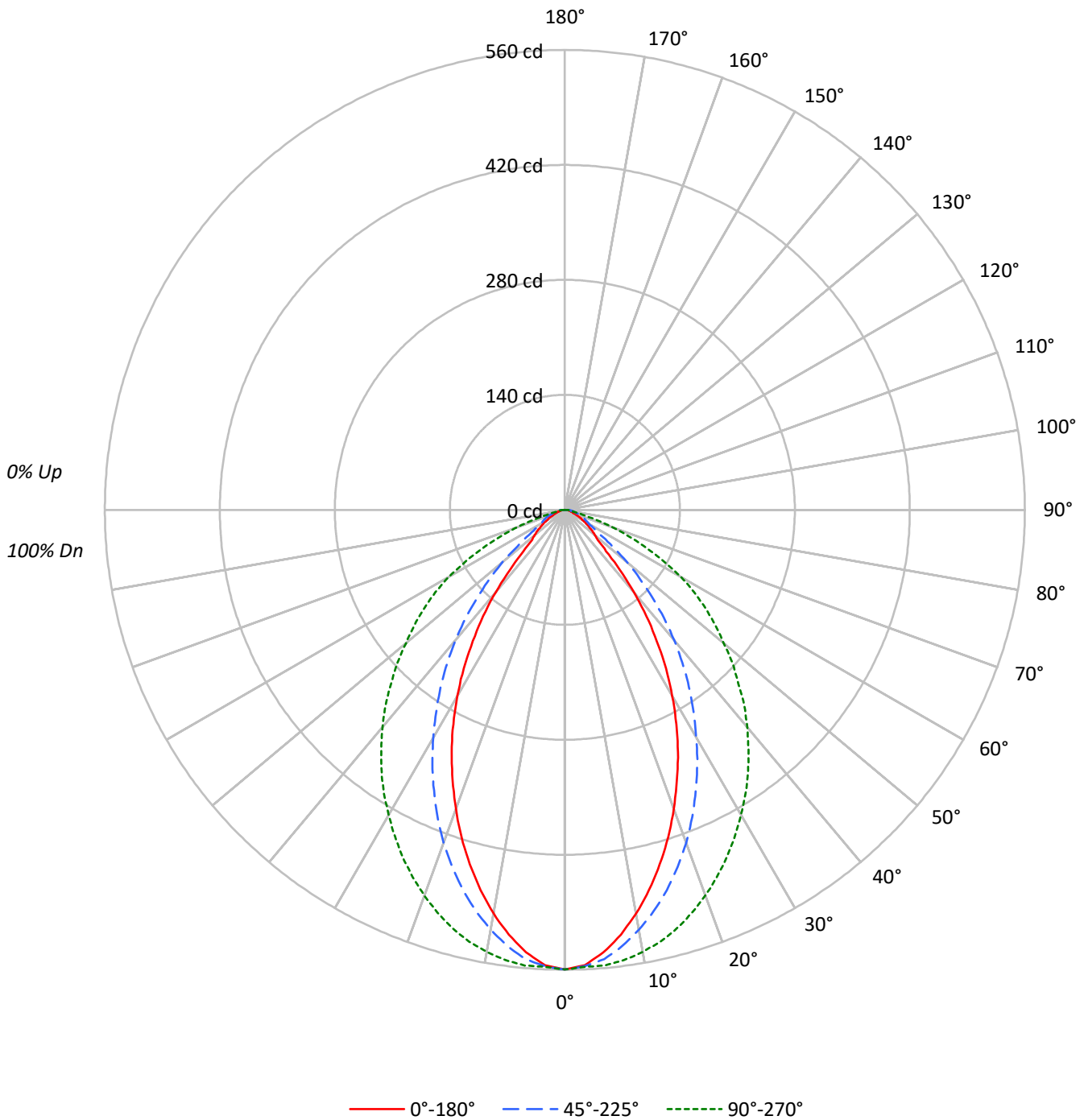
Lumens per Lamp: N/A
Luminaire Lumens: 808.0 lumens
Efficiency: N/A
Efficacy: 41.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061753

CATALOG NUMBER: S125RDR-S610D950-X4F0-XX-UDD-SVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1061753

CATALOG NUMBER: S125RDR-S610D950-X4F0-XX-UDD-SVL-S

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	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	87	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	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	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	41	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3853	3853	3853
5°	3739	3794	3849
10°	3490	3629	3819
15°	3185	3417	3762
20°	2841	3162	3663
25°	2476	2865	3546
30°	2079	2544	3409
35°	1641	2215	3270
40°	1176	1861	3103
45°	691	1461	2909
50°	512	1052	2703
55°	430	637	2510
60°	347	467	2239
65°	270	443	1795
70°	227	415	1216
75°	213	370	529
80°	210	369	341
85°	261	474	363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2909 cd/sqm



TEST NUMBER: P1061753

CATALOG NUMBER: S125RDR-S610D950-X4F0-XX-UDD-SVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	6.4
10°-20°	135.5	16.8
20°-30°	177.0	21.9
30°-40°	172.3	21.3
40°-50°	128.8	15.9
50°-60°	79.9	9.9
60°-70°	41.9	5.2
70°-80°	15.3	1.9
80°-90°	5.8	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°	364.0	45.1
0°-40°	536.4	66.4
0°-60°	745.0	92.2
0°-90°	808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	541	548	549	552	557	50
15°	447	460	479	508	528	125
25°	326	342	377	428	467	149
35°	195	216	264	334	389	121
45°	71	93	150	234	299	60
55°	36	38	53	138	209	32
65°	17	18	27	58	110	17
75°	8	9	14	15	20	9
85°	3	6	6	6	5	4
90°	0	0	0	0	0	



TEST NUMBER: P1061753

CATALOG NUMBER: S125RDR-S610D950-X4F0-XX-UDD-SVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	559.6	559.6	559.6	559.6	559.6
2.5°	555.0	559.6	556.3	556.3	556.9
5°	541.0	548.3	549.0	552.3	556.9
7.5°	521.8	530.4	535.7	545.7	553.0
10°	499.2	509.2	519.1	535.7	546.3
12.5°	474.0	485.9	500.5	523.1	538.4
15°	446.8	460.0	479.3	508.5	527.7
17.5°	418.2	432.1	456.0	491.2	514.5
20°	387.7	402.9	431.5	471.3	499.9
22.5°	356.5	373.7	404.9	450.1	483.9
25°	325.9	342.5	377.1	428.2	466.7
27.5°	294.1	311.3	349.2	405.6	448.1
30°	261.5	280.1	320.0	382.4	428.8
32.5°	229.0	248.3	291.4	358.5	409.6
35°	195.2	216.4	263.5	333.9	389.0
37.5°	163.3	185.9	235.0	308.7	367.1
40°	130.8	154.0	207.1	284.1	345.2
42.5°	98.9	122.8	178.6	258.9	323.3
45°	71.0	92.9	150.0	234.3	298.7
47.5°	54.4	67.0	123.5	209.1	276.8
50°	47.8	51.8	98.2	184.5	252.3
52.5°	41.8	44.5	73.0	160.6	231.0
55°	35.8	37.8	53.1	138.1	209.1
57.5°	30.5	32.5	40.5	117.5	186.5
60°	25.2	27.2	33.9	96.9	162.6
62.5°	21.2	21.9	30.5	77.7	136.1
65°	16.6	17.9	27.2	58.4	110.2
67.5°	13.9	14.6	23.9	41.8	85.0
70°	11.3	11.9	20.6	29.2	60.4
72.5°	10.0	10.0	17.3	21.2	38.5
75°	8.0	9.3	13.9	15.3	19.9
77.5°	6.6	9.3	11.9	11.3	10.6
80°	5.3	8.6	9.3	9.3	8.6
82.5°	4.6	7.3	8.0	7.3	6.6
85°	3.3	6.0	6.0	6.0	4.6
87.5°	2.7	5.3	4.6	4.6	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)