

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: P1061708

Luminaire Tested: S125RDR-S610D850-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061708
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-S610D850-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, 80 CRI LEDS
Ballast/Driver: -

Summary

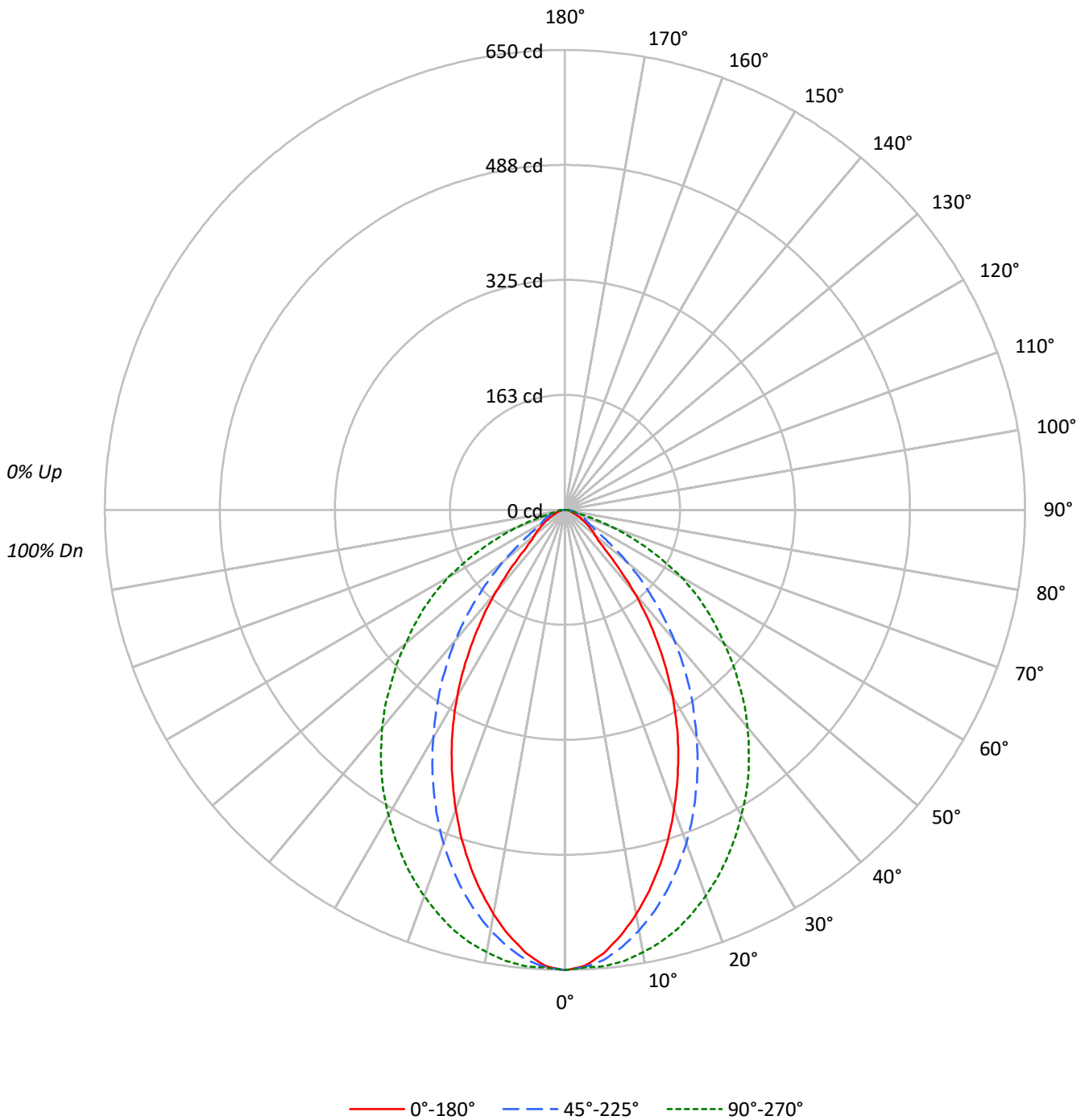
Lumens per Lamp: N/A
Luminaire Lumens: 939.3 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	4479	4479	4479
5°	4347	4411	4475
10°	4057	4219	4440
15°	3702	3972	4373
20°	3302	3675	4258
25°	2879	3330	4121
30°	2417	2957	3963
35°	1907	2575	3801
40°	1366	2164	3607
45°	804	1698	3382
50°	596	1223	3141
55°	501	741	2918
60°	403	543	2604
65°	314	515	2087
70°	264	481	1413
75°	247	431	617
80°	246	428	397
85°	308	545	427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3382 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	6.4
10°-20°	157.5	16.8
20°-30°	205.8	21.9
30°-40°	200.3	21.3
40°-50°	149.7	15.9
50°-60°	92.8	9.9
60°-70°	48.8	5.2
70°-80°	17.8	1.9
80°-90°	6.7	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°	423.2	45.1
0°-40°	623.5	66.4
0°-60°	866.1	92.2
0°-90°	939.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	939.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	629	637	638	642	647	58
15°	519	535	557	591	614	145
25°	379	398	438	498	542	173
35°	227	252	306	388	452	141
45°	83	108	174	272	347	70
55°	42	44	62	160	243	38
65°	19	21	32	68	128	20
75°	9	11	16	18	23	10
85°	4	7	7	7	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	650.5	650.5	650.5	650.5	650.5
2.5°	645.1	650.5	646.7	646.7	647.4
5°	628.9	637.4	638.2	642.0	647.4
7.5°	606.5	616.6	622.7	634.3	642.8
10°	580.3	591.9	603.5	622.7	635.1
12.5°	551.0	564.9	581.8	608.1	625.8
15°	519.3	534.8	557.2	591.1	613.5
17.5°	486.2	502.4	530.1	571.0	598.0
20°	450.7	468.4	501.6	547.9	581.1
22.5°	414.4	434.5	470.7	523.2	562.6
25°	378.9	398.2	438.3	497.7	542.5
27.5°	341.9	361.9	405.9	471.5	520.9
30°	304.0	325.6	371.9	444.5	498.5
32.5°	266.2	288.6	338.8	416.7	476.1
35°	226.9	251.6	306.4	388.2	452.2
37.5°	189.8	216.1	273.2	358.8	426.7
40°	152.0	179.0	240.8	330.3	401.3
42.5°	115.0	142.8	207.6	301.0	375.8
45°	82.6	108.0	174.4	272.4	347.3
47.5°	63.3	77.9	143.5	243.1	321.8
50°	55.6	60.2	114.2	214.5	293.2
52.5°	48.6	51.7	84.9	186.7	268.5
55°	41.7	44.0	61.7	160.5	243.1
57.5°	35.5	37.8	47.1	136.6	216.8
60°	29.3	31.6	39.4	112.7	189.1
62.5°	24.7	25.5	35.5	90.3	158.2
65°	19.3	20.8	31.6	67.9	128.1
67.5°	16.2	17.0	27.8	48.6	98.8
70°	13.1	13.9	23.9	34.0	70.2
72.5°	11.6	11.6	20.1	24.7	44.8
75°	9.3	10.8	16.2	17.7	23.2
77.5°	7.7	10.8	13.9	13.1	12.3
80°	6.2	10.0	10.8	10.8	10.0
82.5°	5.4	8.5	9.3	8.5	7.7
85°	3.9	6.9	6.9	6.9	5.4
87.5°	3.1	6.2	5.4	5.4	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)