

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: P1061682

Luminaire Tested: S125RDR-S610D830-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061682
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-S610D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

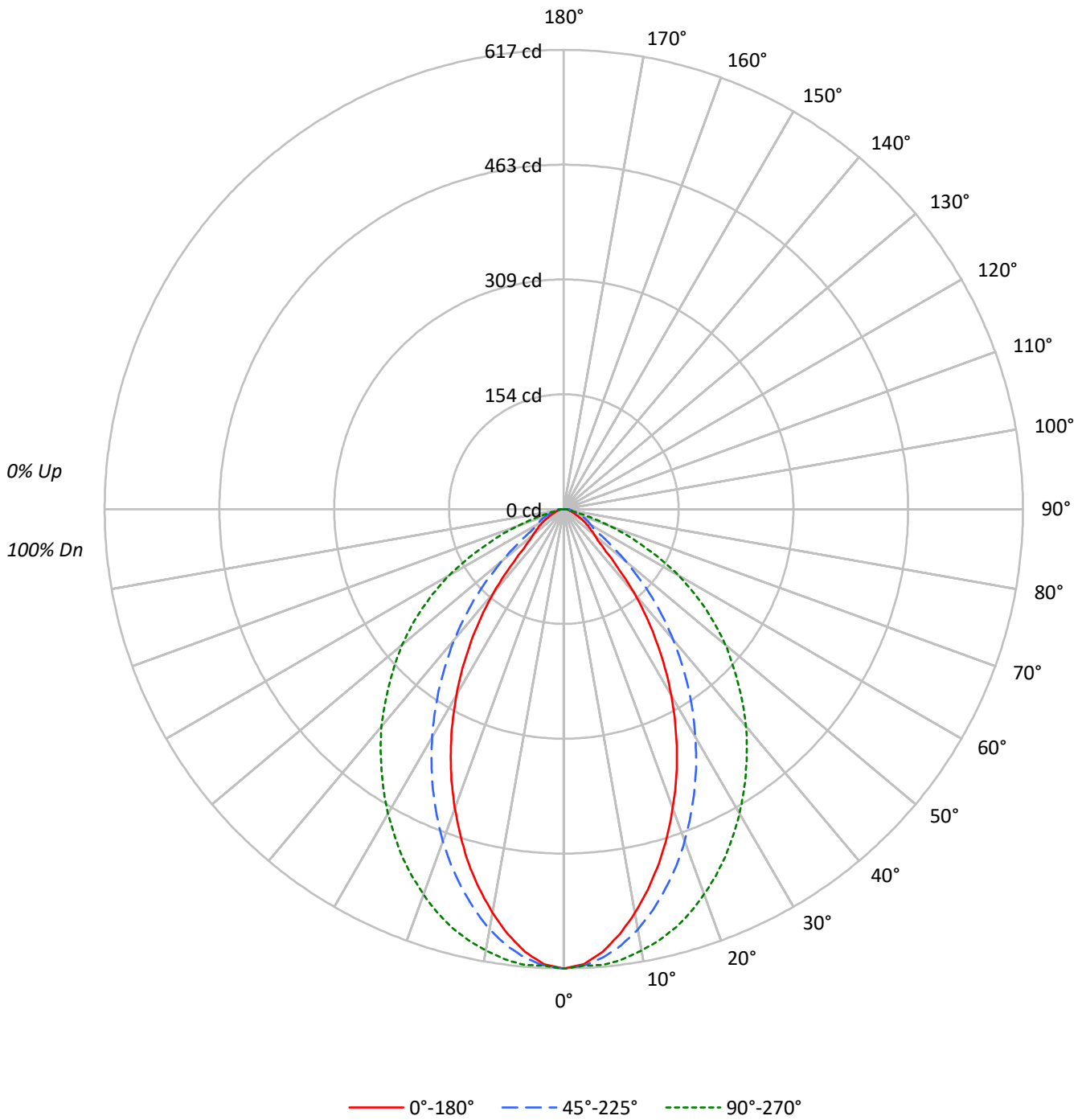
Lumens per Lamp: N/A
Luminaire Lumens: 894.1 lumens
Efficiency: N/A
Efficacy: 45.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1061682

CATALOG NUMBER: S125RDR-S610D830-X4F0-XX-UDD-SVL-W

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	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°	4250	4250	4250
5°	4125	4180	4248
10°	3852	4008	4210
15°	3516	3764	4147
20°	3134	3480	4037
25°	2731	3160	3907
30°	2294	2811	3755
35°	1825	2443	3589
40°	1315	2052	3425
45°	779	1629	3226
50°	576	1159	3036
55°	489	717	2780
60°	398	578	2448
65°	310	534	1934
70°	264	463	1294
75°	245	402	524
80°	262	416	365
85°	308	624	411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3226 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	6.4
10°-20°	149.4	16.7
20°-30°	195.3	21.8
30°-40°	190.2	21.3
40°-50°	142.7	16.0
50°-60°	89.5	10.0
60°-70°	46.6	5.2
70°-80°	16.9	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°	401.6	44.9
0°-40°	591.8	66.2
0°-60°	824.0	92.2
0°-90°	894.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	894.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	597	605	605	609	615	56
15°	493	508	528	561	582	138
25°	360	379	416	472	514	164
35°	217	240	291	368	427	135
45°	80	104	167	258	331	67
55°	41	43	60	156	232	36
65°	19	20	33	63	119	20
75°	9	12	15	16	20	10
85°	4	7	8	7	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	617.3	617.3	617.3	617.3	617.3
2.5°	612.0	617.9	614.0	614.0	614.0
5°	596.9	604.8	604.8	609.4	614.6
7.5°	575.9	585.1	591.0	602.2	610.0
10°	551.0	562.2	573.3	591.7	602.2
12.5°	522.8	535.9	551.7	577.2	593.0
15°	493.3	507.7	528.0	560.8	581.8
17.5°	461.1	478.2	502.5	541.8	567.4
20°	427.7	444.7	474.9	519.5	551.0
22.5°	394.2	412.6	445.4	495.9	533.3
25°	359.5	379.1	415.9	472.3	514.3
27.5°	324.0	344.4	385.0	448.0	493.3
30°	288.6	309.6	353.6	421.8	472.3
32.5°	253.2	275.5	322.1	394.9	450.0
35°	217.1	240.1	290.6	368.0	427.0
37.5°	182.4	205.3	259.1	340.4	404.1
40°	146.3	171.2	228.3	312.9	381.1
42.5°	110.9	136.4	197.4	285.3	356.2
45°	80.0	103.6	167.3	258.4	331.3
47.5°	61.7	74.8	136.4	230.9	307.0
50°	53.8	57.7	108.2	205.3	283.4
52.5°	46.6	49.2	81.3	181.7	257.8
55°	40.7	42.6	59.7	156.1	231.6
57.5°	34.1	36.7	47.2	131.2	204.7
60°	28.9	30.2	42.0	108.2	177.8
62.5°	23.6	24.9	37.4	85.3	147.6
65°	19.0	20.3	32.8	63.0	118.7
67.5°	15.7	16.4	27.6	44.6	91.2
70°	13.1	13.8	23.0	30.8	64.3
72.5°	11.2	13.1	18.4	22.3	40.7
75°	9.2	12.5	15.1	15.7	19.7
77.5°	7.9	11.8	12.5	12.5	11.2
80°	6.6	9.8	10.5	9.8	9.2
82.5°	5.2	7.9	8.5	8.5	7.2
85°	3.9	6.6	7.9	7.2	5.2
87.5°	2.6	5.9	6.6	5.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)