

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: P1175379

Luminaire Tested: S125RDR-S610D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

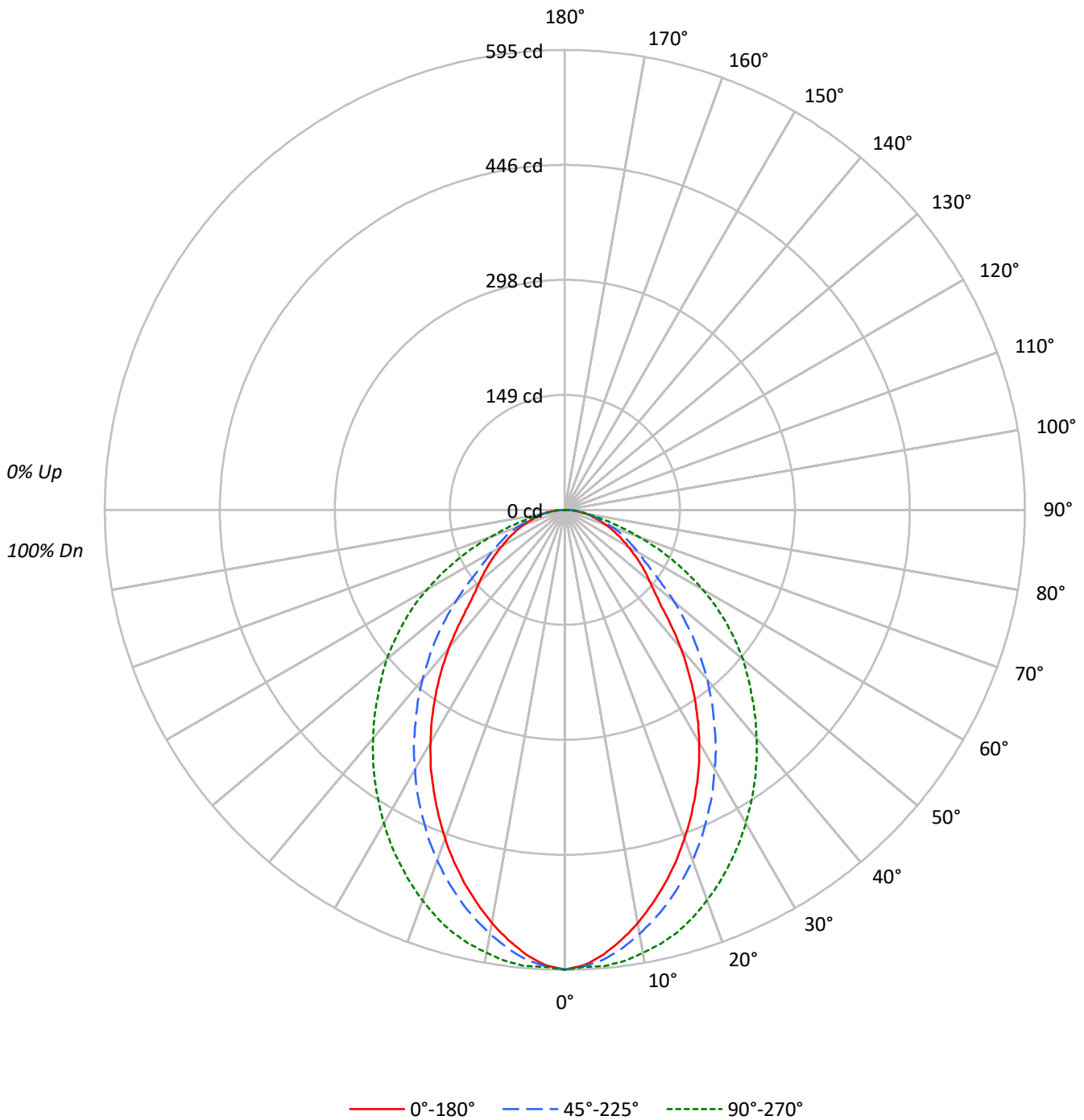
Lumens per Lamp: N/A
Luminaire Lumens: 1120.7 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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: P1175379

CATALOG NUMBER: S125RDR-S610D930-X4F0-XX-UDD-WVL-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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4096	4096	4096
5°	3989	4035	4094
10°	3796	3894	4068
15°	3568	3729	4028
20°	3316	3538	3941
25°	3046	3315	3836
30°	2762	3079	3722
35°	2445	2831	3599
40°	2097	2573	3468
45°	1721	2291	3334
50°	1531	1969	3219
55°	1413	1649	3055
60°	1300	1502	2830
65°	1209	1416	2501
70°	1129	1321	2043
75°	1061	1224	1532
80°	999	1122	1102
85°	916	1114	916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3334 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	4.9
10°-20°	148.4	13.2
20°-30°	204.2	18.2
30°-40°	216.6	19.3
40°-50°	189.6	16.9
50°-60°	145.5	13.0
60°-70°	96.9	8.6
70°-80°	49.7	4.4
80°-90°	14.7	1.3
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°	407.7	36.4
0°-40°	624.3	55.7
0°-60°	959.4	85.6
0°-90°	1120.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1120.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	577	585	584	588	592	54
15°	500	512	523	548	565	140
25°	401	415	436	473	505	184
35°	291	304	337	386	428	181
45°	177	191	235	294	342	140
55°	118	120	137	204	254	105
65°	74	75	87	114	154	74
75°	40	42	46	48	58	42
85°	12	13	14	14	12	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	594.9	594.9	594.9	594.9	594.9
2.5°	589.3	595.4	590.8	591.4	591.9
5°	577.2	584.8	583.8	587.8	592.4
7.5°	561.1	569.1	571.7	581.8	588.8
10°	542.9	552.0	557.0	572.2	581.8
12.5°	522.2	532.8	540.9	560.5	574.7
15°	500.5	512.1	523.2	547.9	565.1
17.5°	477.2	488.8	503.5	531.8	552.5
20°	452.5	465.1	482.8	513.1	537.8
22.5°	427.2	440.4	460.6	493.9	522.2
25°	401.0	414.6	436.3	473.2	505.0
27.5°	375.2	387.8	413.1	452.5	487.3
30°	347.4	360.6	387.3	430.8	468.1
32.5°	319.7	332.8	363.6	409.0	448.4
35°	290.9	304.5	336.8	386.3	428.2
37.5°	262.1	276.2	312.1	363.1	407.5
40°	233.3	248.5	286.3	339.9	385.8
42.5°	204.0	220.2	260.1	317.1	364.6
45°	176.7	191.4	235.3	293.9	342.4
47.5°	157.1	165.6	209.1	270.2	321.2
50°	142.9	147.0	183.8	247.4	300.5
52.5°	130.3	132.8	159.1	226.2	277.7
55°	117.7	120.2	137.4	204.0	254.5
57.5°	105.5	107.1	121.2	181.8	231.3
60°	94.4	95.4	109.1	159.6	205.5
62.5°	84.3	84.8	97.5	136.9	179.8
65°	74.2	74.7	86.9	114.1	153.5
67.5°	65.1	65.1	76.8	93.4	128.3
70°	56.1	56.1	65.6	75.7	101.5
72.5°	48.0	49.0	55.5	61.1	79.3
75°	39.9	42.4	46.0	48.5	57.6
77.5°	32.3	35.3	36.9	37.9	38.4
80°	25.2	27.3	28.3	28.8	27.8
82.5°	18.7	20.2	20.7	20.7	19.2
85°	11.6	13.1	14.1	13.6	11.6
87.5°	5.6	7.6	8.1	7.1	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)