

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: P1175382

Luminaire Tested: S125RDR-S610D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175382
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-S610D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

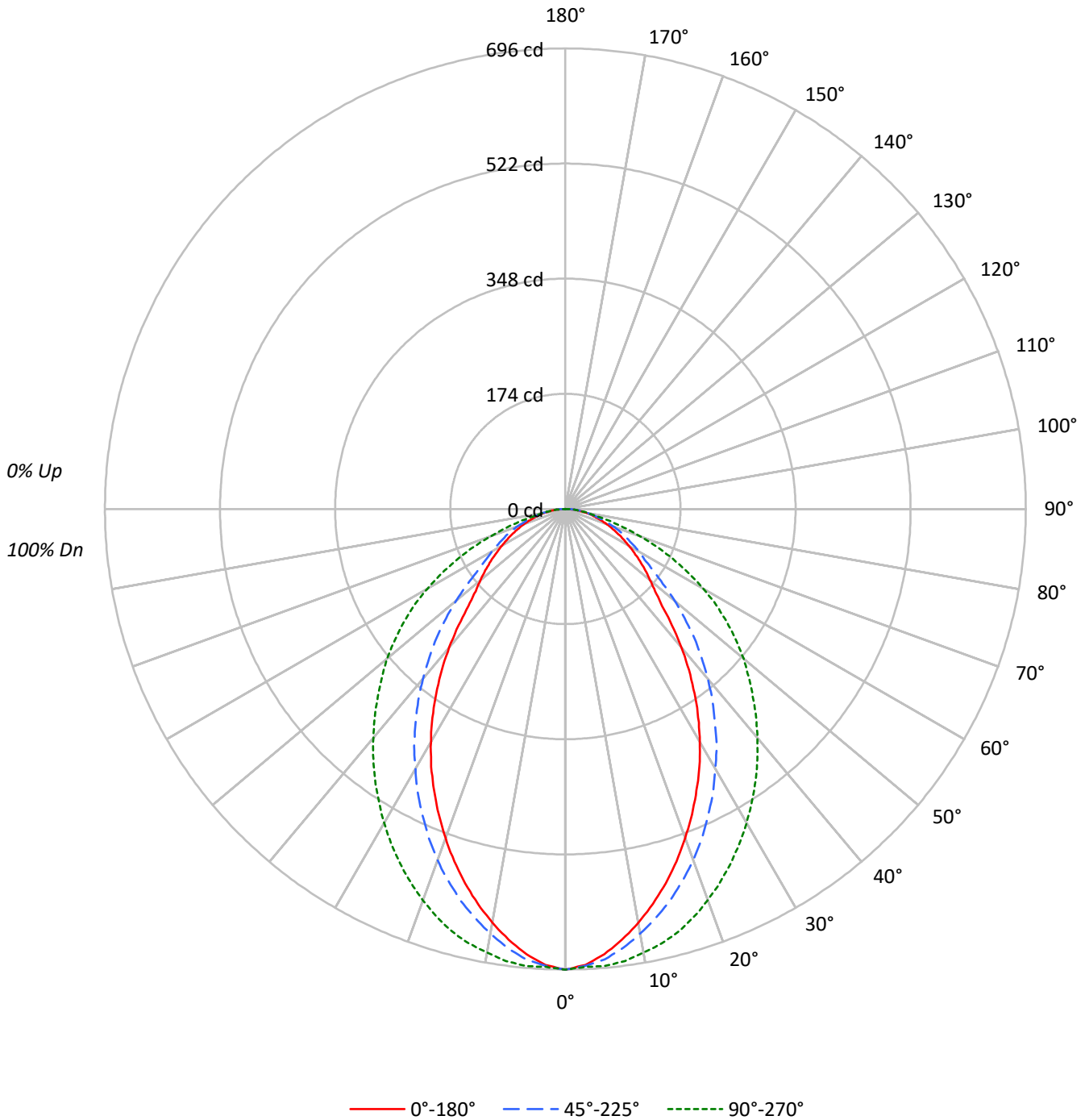
Lumens per Lamp: N/A
Luminaire Lumens: 1311.4 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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				
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4793	4793	4793
5°	4668	4721	4790
10°	4441	4557	4759
15°	4174	4364	4713
20°	3880	4139	4611
25°	3565	3878	4489
30°	3232	3603	4355
35°	2861	3313	4212
40°	2454	3011	4058
45°	2014	2682	3901
50°	1791	2304	3766
55°	1653	1929	3575
60°	1522	1757	3312
65°	1416	1655	2926
70°	1321	1546	2392
75°	1242	1431	1793
80°	1170	1312	1289
85°	1074	1303	1074

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3901 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	4.9
10°-20°	173.7	13.2
20°-30°	239.0	18.2
30°-40°	253.4	19.3
40°-50°	221.8	16.9
50°-60°	170.2	13.0
60°-70°	113.4	8.6
70°-80°	58.1	4.4
80°-90°	17.3	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°	477.1	36.4
0°-40°	730.6	55.7
0°-60°	1122.6	85.6
0°-90°	1311.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1311.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	675	684	683	688	693	63
15°	586	599	612	641	661	164
25°	469	485	510	554	591	215
35°	340	356	394	452	501	212
45°	207	224	275	344	401	163
55°	138	141	161	239	298	123
65°	87	88	102	134	180	87
75°	47	50	54	57	67	50
85°	14	15	16	16	14	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.1	696.1	696.1	696.1	696.1
2.5°	689.6	696.7	691.4	692.0	692.5
5°	675.4	684.3	683.1	687.8	693.1
7.5°	656.5	666.0	668.9	680.7	689.0
10°	635.2	645.9	651.8	669.5	680.7
12.5°	611.0	623.4	632.9	655.9	672.5
15°	585.6	599.2	612.2	641.1	661.2
17.5°	558.4	572.0	589.1	622.2	646.5
20°	529.5	544.2	564.9	600.4	629.3
22.5°	499.9	515.3	538.9	577.9	611.0
25°	469.2	485.1	510.5	553.7	590.9
27.5°	439.0	453.8	483.4	529.5	570.2
30°	406.5	421.9	453.2	504.0	547.8
32.5°	374.0	389.4	425.5	478.6	524.7
35°	340.4	356.3	394.1	452.0	501.1
37.5°	306.7	323.2	365.2	424.9	476.9
40°	273.0	290.7	335.0	397.7	451.5
42.5°	238.7	257.6	304.3	371.1	426.6
45°	206.8	224.0	275.4	343.9	400.6
47.5°	183.8	193.8	244.6	316.1	375.8
50°	167.2	172.0	215.1	289.5	351.6
52.5°	152.5	155.4	186.1	264.7	325.0
55°	137.7	140.6	160.7	238.7	297.8
57.5°	123.5	125.3	141.8	212.7	270.6
60°	110.5	111.7	127.6	186.7	240.5
62.5°	98.7	99.3	114.0	160.1	210.4
65°	86.9	87.5	101.6	133.5	179.6
67.5°	76.2	76.2	89.8	109.3	150.1
70°	65.6	65.6	76.8	88.6	118.8
72.5°	56.1	57.3	65.0	71.5	92.8
75°	46.7	49.6	53.8	56.7	67.4
77.5°	37.8	41.4	43.1	44.3	44.9
80°	29.5	31.9	33.1	33.7	32.5
82.5°	21.9	23.6	24.2	24.2	22.5
85°	13.6	15.4	16.5	16.0	13.6
87.5°	6.5	8.9	9.5	8.3	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)