

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S125RDRP-S610D950-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

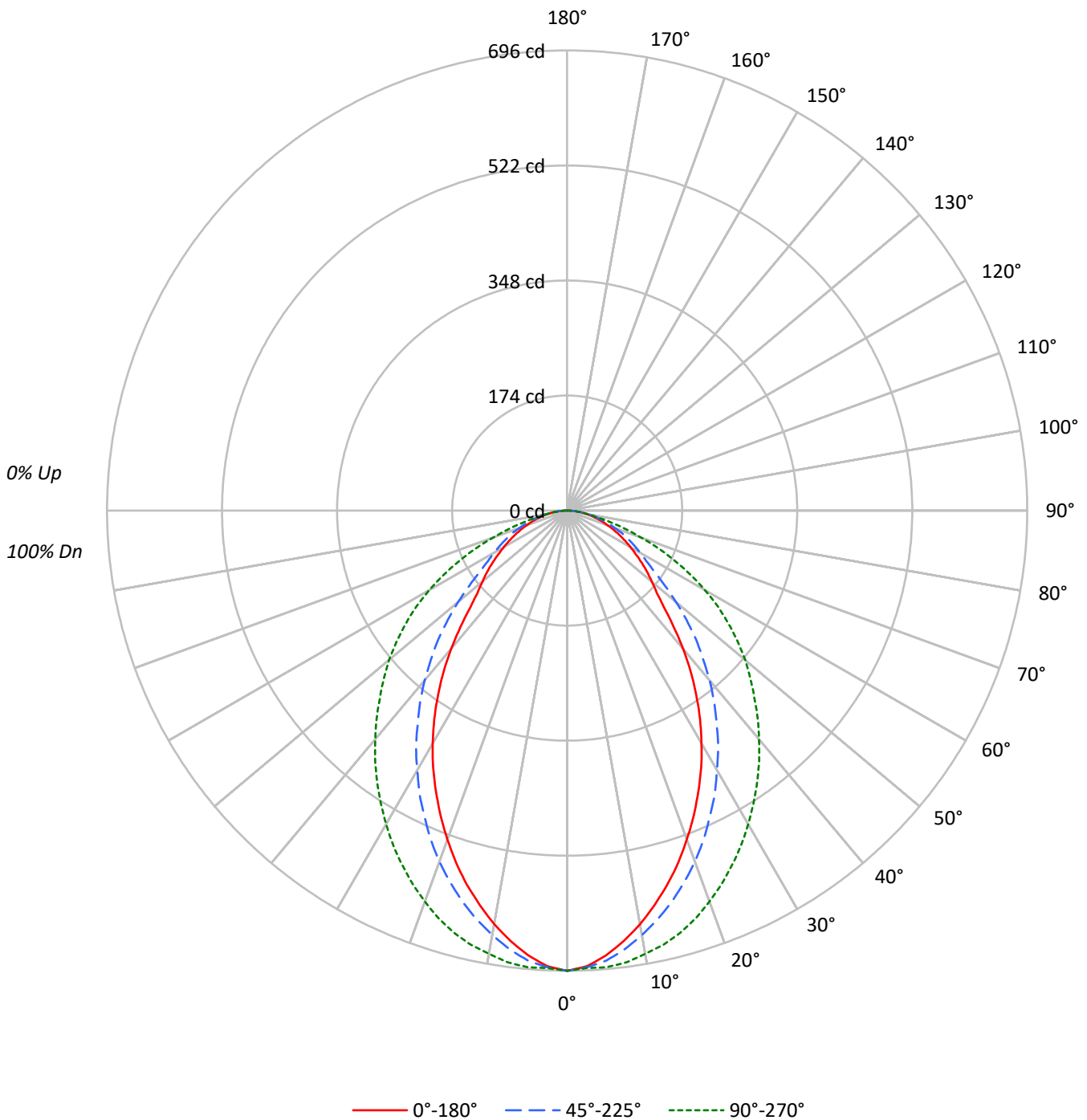
Lumens per Lamp: N/A
Luminaire Lumens: 1311.4 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): 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	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

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.06	13.56	12.43	13.87	14.19	16.08	17.58	16.45	17.90	18.21
	3H	13.65	14.99	14.03	15.32	15.68	17.47	18.82	17.85	19.14	19.51
	4H	14.29	15.55	14.69	15.90	16.28	17.88	19.14	18.28	19.49	19.87
	6H	14.80	15.96	15.21	16.33	16.72	18.08	19.25	18.50	19.61	20.01
	8H	14.98	16.09	15.41	16.48	16.88	18.14	19.25	18.57	19.64	20.04
	12H	15.11	16.17	15.54	16.55	16.98	18.17	19.24	18.61	19.62	20.05
4H	2H	12.83	14.09	13.23	14.44	14.82	16.21	17.47	16.61	17.82	18.20
	3H	14.61	15.66	15.02	16.06	16.46	17.78	18.83	18.19	19.23	19.63
	4H	15.38	16.32	15.81	16.74	17.18	18.29	19.24	18.73	19.65	20.09
	6H	16.02	16.84	16.48	17.28	17.74	18.62	19.44	19.08	19.88	20.34
	8H	16.25	17.01	16.71	17.46	17.93	18.72	19.49	19.18	19.93	20.40
	12H	16.42	17.10	16.90	17.58	18.05	18.79	19.48	19.27	19.95	20.43
8H	4H	15.76	16.53	16.23	16.97	17.44	18.39	19.16	18.86	19.60	20.07
	6H	16.54	17.17	17.04	17.66	18.14	18.81	19.45	19.31	19.94	20.41
	8H	16.86	17.42	17.37	17.93	18.42	18.97	19.54	19.49	20.05	20.54
	12H	17.12	17.62	17.63	18.11	18.68	19.11	19.61	19.62	20.10	20.67
12H	4H	15.80	16.49	16.28	16.96	17.44	18.39	19.08	18.88	19.55	20.03
	6H	16.61	17.18	17.13	17.69	18.18	18.82	19.39	19.34	19.90	20.39
	8H	17.00	17.50	17.51	17.99	18.56	19.04	19.54	19.55	20.03	20.59