

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: P1175379

Luminaire Tested: S125RDRP-S610D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

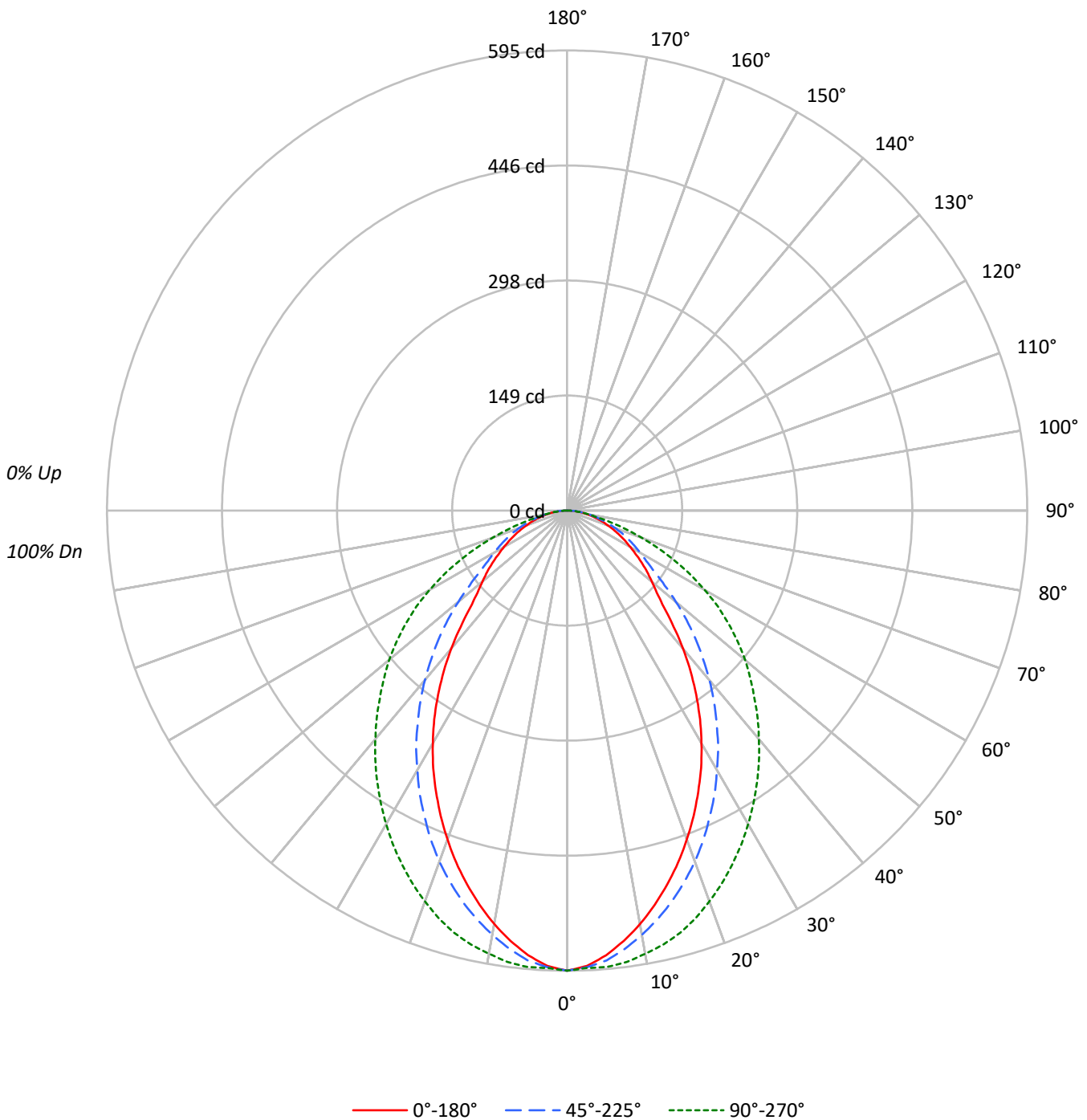
Lumens per Lamp: N/A
Luminaire Lumens: 1120.7 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32

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

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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	11.52	13.01	11.88	13.33	13.64	15.54	17.04	15.90	17.35	17.67
	3H	13.10	14.45	13.48	14.77	15.14	16.93	18.27	17.30	18.60	18.96
	4H	13.75	15.01	14.15	15.35	15.73	17.33	18.59	17.73	18.94	19.32
	6H	14.25	15.42	14.67	15.78	16.18	17.54	18.70	17.95	19.07	19.46
	8H	14.43	15.54	14.86	15.93	16.33	17.60	18.70	18.02	19.09	19.50
	12H	14.56	15.62	14.99	16.00	16.43	17.63	18.69	18.06	19.07	19.50
4H	2H	12.29	13.55	12.69	13.89	14.27	15.67	16.93	16.07	17.28	17.66
	3H	14.07	15.11	14.48	15.51	15.91	17.24	18.28	17.65	18.69	19.09
	4H	14.83	15.78	15.27	16.19	16.63	17.75	18.69	18.18	19.11	19.55
	6H	15.47	16.29	15.93	16.74	17.20	18.08	18.89	18.53	19.34	19.80
	8H	15.70	16.47	16.17	16.91	17.38	18.17	18.94	18.64	19.38	19.85
	12H	15.87	16.56	16.36	17.04	17.51	18.25	18.93	18.73	19.41	19.88
8H	4H	15.22	15.98	15.68	16.43	16.90	17.85	18.61	18.31	19.06	19.53
	6H	15.99	16.63	16.49	17.12	17.60	18.27	18.90	18.77	19.39	19.87
	8H	16.31	16.88	16.83	17.39	17.88	18.43	19.00	18.94	19.51	19.99
	12H	16.57	17.07	17.08	17.57	18.13	18.57	19.07	19.08	19.56	20.12
12H	4H	15.26	15.94	15.74	16.42	16.89	17.85	18.53	18.33	19.01	19.48
	6H	16.07	16.64	16.58	17.15	17.64	18.28	18.85	18.80	19.36	19.85
	8H	16.45	16.95	16.96	17.45	18.01	18.49	18.99	19.00	19.48	20.05