

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: P1061727

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061727
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: S125RDRP-S610D930-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, 90 CRI LEDS
Ballast/Driver: -

Summary

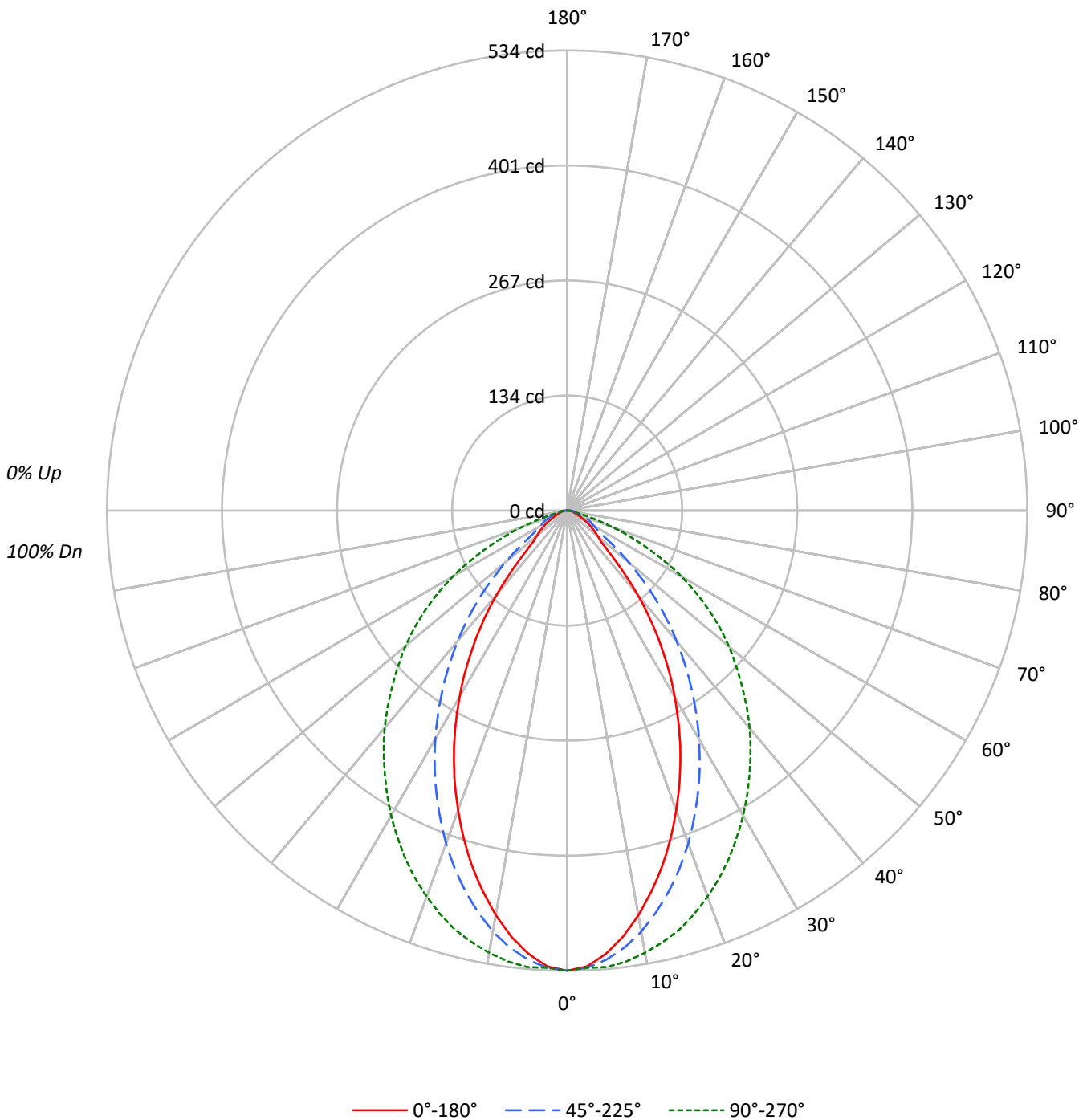
Lumens per Lamp: N/A
Luminaire Lumens: 773.4 lumens
Efficiency: N/A
Efficacy: 39.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3676	3676	3676
5°	3568	3615	3675
10°	3332	3467	3642
15°	3042	3256	3588
20°	2710	3010	3492
25°	2362	2733	3379
30°	1985	2431	3248
35°	1579	2113	3105
40°	1137	1775	2963
45°	674	1409	2790
50°	498	1003	2625
55°	423	619	2404
60°	344	500	2118
65°	269	463	1673
70°	227	401	1119
75°	210	348	452
80°	226	361	313
85°	269	537	355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2790 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	6.4
10°-20°	129.2	16.7
20°-30°	168.9	21.8
30°-40°	164.6	21.3
40°-50°	123.4	16.0
50°-60°	77.4	10.0
60°-70°	40.3	5.2
70°-80°	14.6	1.9
80°-90°	5.8	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°	347.4	44.9
0°-40°	511.9	66.2
0°-60°	712.8	92.2
0°-90°	773.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	773.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	516	523	523	527	532	48
15°	427	439	457	485	503	119
25°	311	328	360	408	445	142
35°	188	208	251	318	369	117
45°	69	90	145	224	286	58
55°	35	37	52	135	200	31
65°	16	18	28	54	103	17
75°	8	11	13	14	17	9
85°	3	6	7	6	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	533.9	533.9	533.9	533.9	533.9
2.5°	529.4	534.5	531.1	531.1	531.1
5°	516.3	523.1	523.1	527.1	531.7
7.5°	498.2	506.1	511.2	520.9	527.7
10°	476.6	486.3	495.9	511.8	520.9
12.5°	452.2	463.6	477.2	499.3	512.9
15°	426.7	439.2	456.8	485.1	503.3
17.5°	398.9	413.6	434.6	468.7	490.8
20°	369.9	384.7	410.8	449.4	476.6
22.5°	341.0	356.9	385.3	429.0	461.3
25°	310.9	328.0	359.7	408.5	444.8
27.5°	280.3	297.9	333.1	387.5	426.7
30°	249.7	267.8	305.8	364.8	408.5
32.5°	219.0	238.3	278.6	341.6	389.2
35°	187.8	207.7	251.4	318.3	369.4
37.5°	157.7	177.6	224.1	294.5	349.5
40°	126.5	148.1	197.5	270.7	329.7
42.5°	95.9	118.0	170.8	246.8	308.1
45°	69.2	89.6	144.7	223.6	286.5
47.5°	53.3	64.7	118.0	199.7	265.5
50°	46.5	49.9	93.6	177.6	245.1
52.5°	40.3	42.6	70.4	157.2	223.0
55°	35.2	36.9	51.6	135.0	200.3
57.5°	29.5	31.8	40.9	113.5	177.0
60°	25.0	26.1	36.3	93.6	153.8
62.5°	20.4	21.6	32.3	73.8	127.7
65°	16.5	17.6	28.4	54.5	102.7
67.5°	13.6	14.2	23.8	38.6	78.9
70°	11.3	11.9	19.9	26.7	55.6
72.5°	9.6	11.3	15.9	19.3	35.2
75°	7.9	10.8	13.1	13.6	17.0
77.5°	6.8	10.2	10.8	10.8	9.6
80°	5.7	8.5	9.1	8.5	7.9
82.5°	4.5	6.8	7.4	7.4	6.2
85°	3.4	5.7	6.8	6.2	4.5
87.5°	2.3	5.1	5.7	5.1	3.4
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	4.45	5.80	4.81	6.11	6.43	14.05	15.41	14.42	15.72	16.03
	3H	5.30	6.50	5.68	6.83	7.19	14.89	16.10	15.27	16.42	16.79
	4H	5.72	6.84	6.12	7.19	7.57	14.97	16.09	15.37	16.44	16.82
	6H	6.15	7.18	6.56	7.55	7.94	14.95	15.98	15.37	16.35	16.74
	8H	6.33	7.30	6.76	7.69	8.10	14.94	15.91	15.37	16.31	16.71
	12H	6.49	7.42	6.92	7.80	8.23	14.93	15.86	15.36	16.24	16.67
4H	2H	5.41	6.53	5.81	6.88	7.26	13.92	15.04	14.32	15.39	15.77
	3H	6.46	7.37	6.87	7.78	8.18	14.83	15.75	15.24	16.15	16.55
	4H	7.02	7.84	7.45	8.26	8.70	14.93	15.75	15.36	16.17	16.61
	6H	7.62	8.33	8.08	8.77	9.24	14.96	15.66	15.42	16.11	16.58
	8H	7.85	8.52	8.32	8.96	9.43	14.96	15.62	15.43	16.07	16.54
	12H	8.08	8.67	8.57	9.15	9.62	14.97	15.55	15.46	16.04	16.51
8H	4H	7.49	8.15	7.96	8.60	9.07	14.86	15.52	15.32	15.96	16.43
	6H	8.30	8.85	8.81	9.34	9.82	14.91	15.45	15.41	15.95	16.43
	8H	8.68	9.17	9.20	9.68	10.17	14.94	15.43	15.46	15.94	16.43
	12H	9.07	9.50	9.59	10.00	10.57	15.00	15.43	15.52	15.93	16.50
12H	4H	7.54	8.13	8.03	8.61	9.08	14.82	15.41	15.31	15.89	16.36
	6H	8.43	8.91	8.95	9.43	9.92	14.88	15.36	15.40	15.88	16.37
	8H	8.92	9.34	9.43	9.84	10.41	14.95	15.38	15.46	15.87	16.44