

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: P1061754

Luminaire Tested: S125RDRP-S610D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061754
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-S610D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

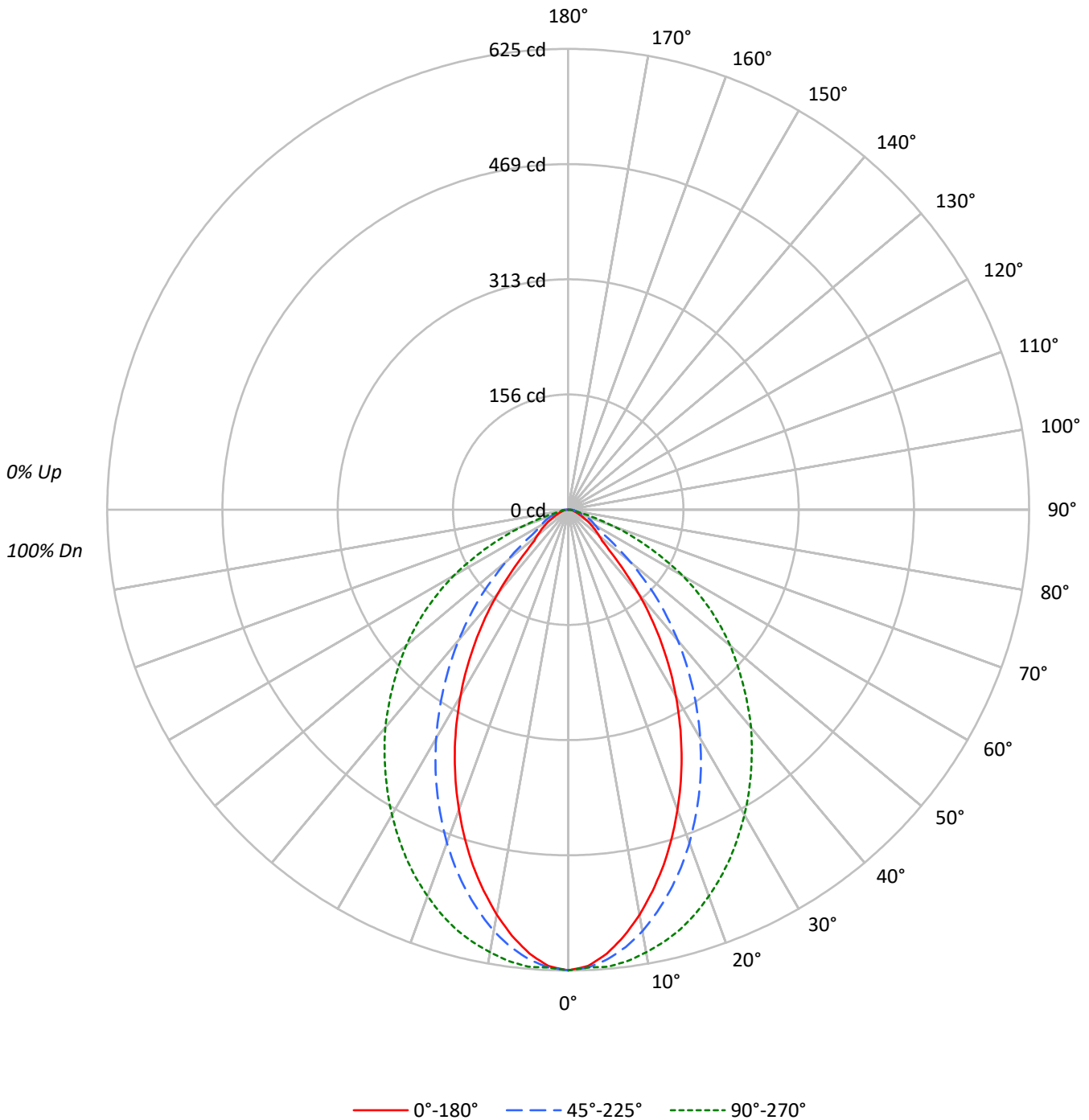
Lumens per Lamp: N/A
Luminaire Lumens: 904.9 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4302	4302	4302
5°	4176	4231	4300
10°	3899	4057	4261
15°	3559	3810	4198
20°	3172	3522	4086
25°	2764	3198	3954
30°	2322	2845	3800
35°	1847	2472	3633
40°	1331	2076	3467
45°	789	1649	3265
50°	583	1173	3072
55°	495	725	2814
60°	402	585	2477
65°	314	541	1958
70°	268	467	1311
75°	247	407	529
80°	262	420	369
85°	316	632	419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3265 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	6.4
10°-20°	151.2	16.7
20°-30°	197.7	21.8
30°-40°	192.6	21.3
40°-50°	144.4	16.0
50°-60°	90.5	10.0
60°-70°	47.1	5.2
70°-80°	17.1	1.9
80°-90°	6.8	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°	406.5	44.9
0°-40°	599.0	66.2
0°-60°	834.0	92.2
0°-90°	904.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	904.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	625	625	625	625	625	
5°	604	612	612	617	622	56
15°	499	514	534	568	589	139
25°	364	384	421	478	520	166
35°	220	243	294	372	432	137
45°	81	105	169	262	335	68
55°	41	43	60	158	234	37
65°	19	21	33	64	120	20
75°	9	13	15	16	20	10
85°	4	7	8	7	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	624.8	624.8	624.8	624.8	624.8
2.5°	619.4	625.4	621.4	621.4	621.4
5°	604.2	612.1	612.1	616.8	622.1
7.5°	582.9	592.2	598.2	609.5	617.5
10°	557.7	569.0	580.3	598.9	609.5
12.5°	529.2	542.4	558.4	584.3	600.2
15°	499.3	513.9	534.5	567.7	588.9
17.5°	466.7	484.0	508.6	548.4	574.3
20°	432.9	450.1	480.7	525.8	557.7
22.5°	399.0	417.6	450.8	501.9	539.8
25°	363.8	383.8	420.9	478.0	520.5
27.5°	328.0	348.6	389.7	453.5	499.3
30°	292.1	313.4	357.9	426.9	478.0
32.5°	256.3	278.9	326.0	399.7	455.5
35°	219.8	243.0	294.1	372.5	432.2
37.5°	184.6	207.8	262.3	344.6	409.0
40°	148.1	173.3	231.0	316.7	385.7
42.5°	112.2	138.1	199.8	288.8	360.5
45°	81.0	104.9	169.3	261.6	335.3
47.5°	62.4	75.7	138.1	233.7	310.7
50°	54.4	58.4	109.5	207.8	286.8
52.5°	47.1	49.8	82.3	183.9	260.9
55°	41.2	43.2	60.4	158.0	234.4
57.5°	34.5	37.2	47.8	132.8	207.1
60°	29.2	30.5	42.5	109.5	179.9
62.5°	23.9	25.2	37.8	86.3	149.4
65°	19.3	20.6	33.2	63.7	120.2
67.5°	15.9	16.6	27.9	45.1	92.3
70°	13.3	13.9	23.2	31.2	65.1
72.5°	11.3	13.3	18.6	22.6	41.2
75°	9.3	12.6	15.3	15.9	19.9
77.5°	8.0	12.0	12.6	12.6	11.3
80°	6.6	10.0	10.6	10.0	9.3
82.5°	5.3	8.0	8.6	8.6	7.3
85°	4.0	6.6	8.0	7.3	5.3
87.5°	2.7	6.0	6.6	6.0	4.0
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	4.99	6.34	5.35	6.65	6.97	14.60	15.95	14.96	16.26	16.58
	3H	5.84	7.04	6.22	7.37	7.74	15.44	16.64	15.82	16.97	17.33
	4H	6.27	7.39	6.67	7.74	8.12	15.52	16.63	15.92	16.98	17.37
	6H	6.70	7.73	7.11	8.10	8.49	15.50	16.53	15.91	16.90	17.29
	8H	6.88	7.85	7.31	8.24	8.65	15.49	16.46	15.91	16.85	17.26
	12H	7.04	7.97	7.47	8.35	8.78	15.47	16.41	15.91	16.79	17.22
4H	2H	5.95	7.07	6.35	7.42	7.80	14.46	15.58	14.87	15.93	16.32
	3H	7.00	7.92	7.41	8.32	8.72	15.37	16.29	15.79	16.69	17.10
	4H	7.56	8.38	8.00	8.80	9.24	15.47	16.29	15.91	16.71	17.16
	6H	8.17	8.87	8.63	9.32	9.79	15.50	16.21	15.96	16.66	17.12
	8H	8.40	9.07	8.87	9.51	9.98	15.50	16.16	15.97	16.61	17.08
	12H	8.63	9.22	9.12	9.70	10.17	15.52	16.10	16.00	16.58	17.06
8H	4H	8.04	8.70	8.50	9.14	9.61	15.40	16.06	15.87	16.51	16.98
	6H	8.85	9.39	9.35	9.89	10.37	15.45	16.00	15.96	16.49	16.97
	8H	9.23	9.72	9.75	10.23	10.72	15.49	15.97	16.01	16.49	16.98
	12H	9.62	10.05	10.14	10.55	11.12	15.55	15.98	16.06	16.47	17.05
12H	4H	8.09	8.67	8.57	9.15	9.63	15.37	15.95	15.85	16.43	16.91
	6H	8.97	9.46	9.49	9.97	10.47	15.42	15.91	15.94	16.42	16.91
	8H	9.46	9.89	9.98	10.39	10.96	15.49	15.92	16.01	16.42	16.99