

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: P1061718

Luminaire Tested: S125RDRP-S610D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061718
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-S610D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

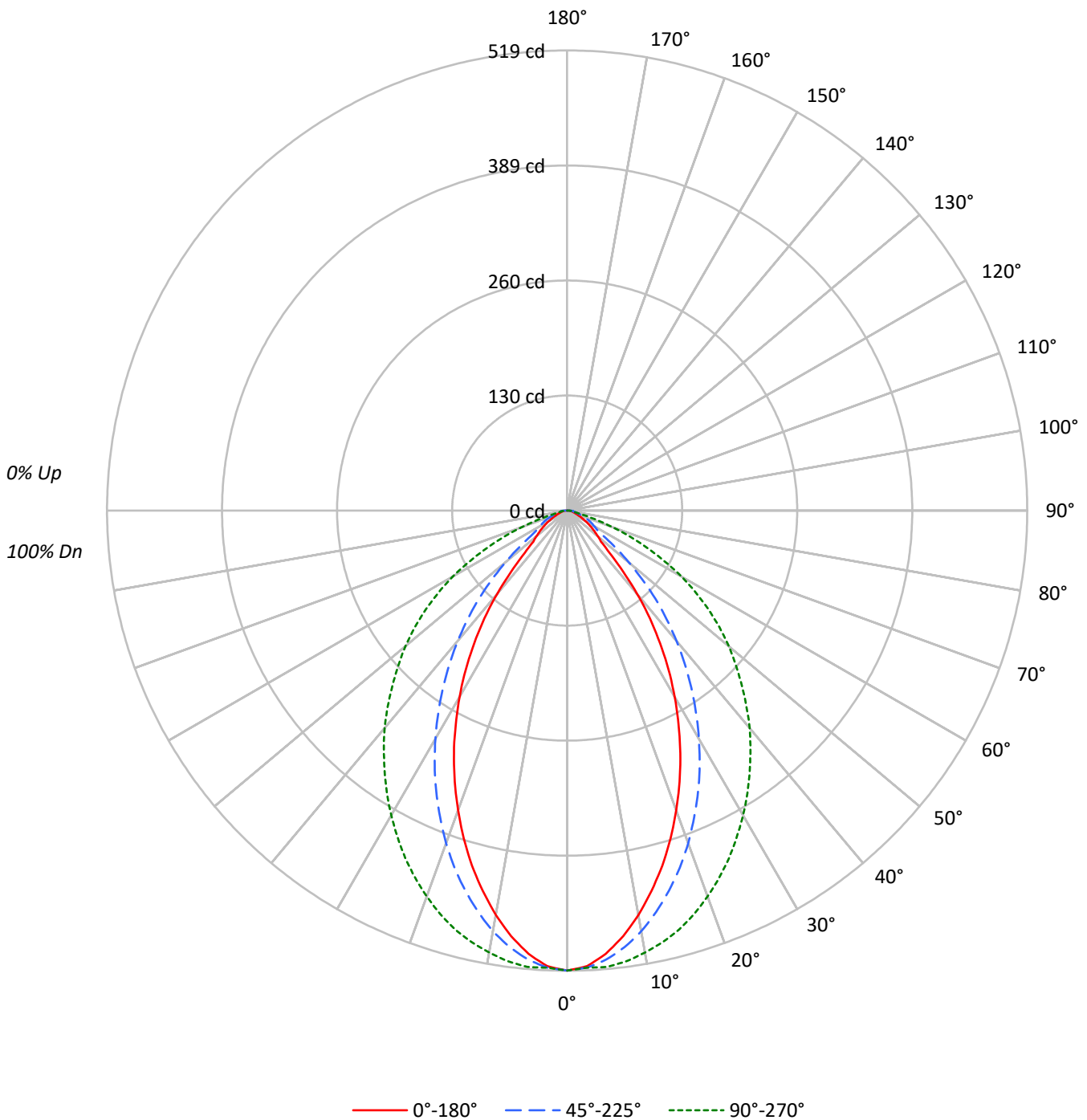
Lumens per Lamp: N/A
Luminaire Lumens: 751.5 lumens
Efficiency: N/A
Efficacy: 38.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	3572	3572	3572
5°	3468	3513	3571
10°	3238	3368	3538
15°	2955	3163	3486
20°	2634	2925	3393
25°	2295	2655	3283
30°	1929	2363	3156
35°	1534	2053	3017
40°	1105	1725	2879
45°	655	1369	2711
50°	484	975	2551
55°	411	603	2336
60°	335	486	2057
65°	261	450	1626
70°	221	389	1087
75°	205	338	439
80°	218	349	305
85°	261	521	348

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	6.4
10°-20°	125.6	16.7
20°-30°	164.1	21.8
30°-40°	159.9	21.3
40°-50°	119.9	16.0
50°-60°	75.2	10.0
60°-70°	39.1	5.2
70°-80°	14.2	1.9
80°-90°	5.6	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°	337.5	44.9
0°-40°	497.4	66.2
0°-60°	692.5	92.2
0°-90°	751.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	751.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	519	519	519	519	519	
5°	502	508	508	512	517	47
15°	415	427	444	471	489	116
25°	302	319	350	397	432	138
35°	182	202	244	309	359	113
45°	67	87	141	217	278	57
55°	34	36	50	131	195	30
65°	16	17	28	53	100	16
75°	8	10	13	13	16	8
85°	3	6	7	6	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	518.8	518.8	518.8	518.8	518.8
2.5°	514.4	519.3	516.0	516.0	516.0
5°	501.7	508.3	508.3	512.2	516.6
7.5°	484.1	491.8	496.7	506.1	512.7
10°	463.1	472.5	481.8	497.3	506.1
12.5°	439.4	450.4	463.7	485.2	498.4
15°	414.6	426.7	443.8	471.4	489.0
17.5°	387.6	401.9	422.3	455.4	476.9
20°	359.5	373.8	399.2	436.6	463.1
22.5°	331.3	346.8	374.3	416.8	448.2
25°	302.1	318.7	349.5	396.9	432.2
27.5°	272.3	289.4	323.6	376.5	414.6
30°	242.6	260.2	297.2	354.5	396.9
32.5°	212.8	231.6	270.7	331.9	378.2
35°	182.5	201.8	244.2	309.3	358.9
37.5°	153.3	172.6	217.8	286.1	339.6
40°	122.9	143.9	191.9	263.0	320.3
42.5°	93.2	114.7	165.9	239.8	299.4
45°	67.3	87.1	140.6	217.2	278.4
47.5°	51.8	62.8	114.7	194.1	258.0
50°	45.2	48.5	91.0	172.6	238.2
52.5°	39.1	41.3	68.4	152.7	216.7
55°	34.2	35.8	50.2	131.2	194.6
57.5°	28.7	30.9	39.7	110.3	172.0
60°	24.3	25.4	35.3	91.0	149.4
62.5°	19.8	20.9	31.4	71.7	124.0
65°	16.0	17.1	27.6	52.9	99.8
67.5°	13.2	13.8	23.2	37.5	76.6
70°	11.0	11.6	19.3	25.9	54.0
72.5°	9.4	11.0	15.4	18.7	34.2
75°	7.7	10.5	12.7	13.2	16.5
77.5°	6.6	9.9	10.5	10.5	9.4
80°	5.5	8.3	8.8	8.3	7.7
82.5°	4.4	6.6	7.2	7.2	6.1
85°	3.3	5.5	6.6	6.1	4.4
87.5°	2.2	5.0	5.5	5.0	3.3
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	4.35	5.70	4.71	6.01	6.33	13.95	15.31	14.32	15.62	15.93
	3H	5.20	6.40	5.58	6.73	7.10	14.79	15.99	15.17	16.32	16.69
	4H	5.63	6.75	6.03	7.10	7.48	14.87	15.99	15.27	16.34	16.72
	6H	6.05	7.08	6.47	7.45	7.84	14.85	15.88	15.27	16.25	16.64
	8H	6.23	7.21	6.66	7.60	8.00	14.84	15.82	15.27	16.21	16.61
	12H	6.39	7.32	6.82	7.71	8.14	14.83	15.76	15.26	16.14	16.57
4H	2H	5.31	6.43	5.71	6.78	7.16	13.82	14.94	14.22	15.29	15.67
	3H	6.36	7.28	6.77	7.68	8.08	14.73	15.64	15.14	16.05	16.45
	4H	6.92	7.74	7.36	8.16	8.60	14.83	15.65	15.26	16.07	16.51
	6H	7.52	8.23	7.98	8.67	9.14	14.86	15.56	15.32	16.01	16.48
	8H	7.76	8.42	8.23	8.87	9.34	14.86	15.52	15.33	15.97	16.44
	12H	7.98	8.57	8.47	9.05	9.52	14.87	15.46	15.36	15.94	16.41
8H	4H	7.39	8.06	7.86	8.50	8.97	14.75	15.41	15.22	15.86	16.33
	6H	8.21	8.75	8.71	9.24	9.72	14.81	15.35	15.31	15.85	16.33
	8H	8.58	9.07	9.11	9.59	10.08	14.84	15.33	15.36	15.84	16.33
	12H	8.97	9.40	9.49	9.90	10.47	14.91	15.34	15.42	15.83	16.40
12H	4H	7.45	8.03	7.93	8.51	8.99	14.72	15.31	15.21	15.79	16.26
	6H	8.33	8.82	8.85	9.33	9.82	14.78	15.26	15.30	15.78	16.27
	8H	8.82	9.25	9.33	9.74	10.31	14.85	15.28	15.36	15.77	16.34