

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: P1061719

Luminaire Tested: S125RDRP-S610D927-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S610D927-X4F0-XX-UDD-WVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

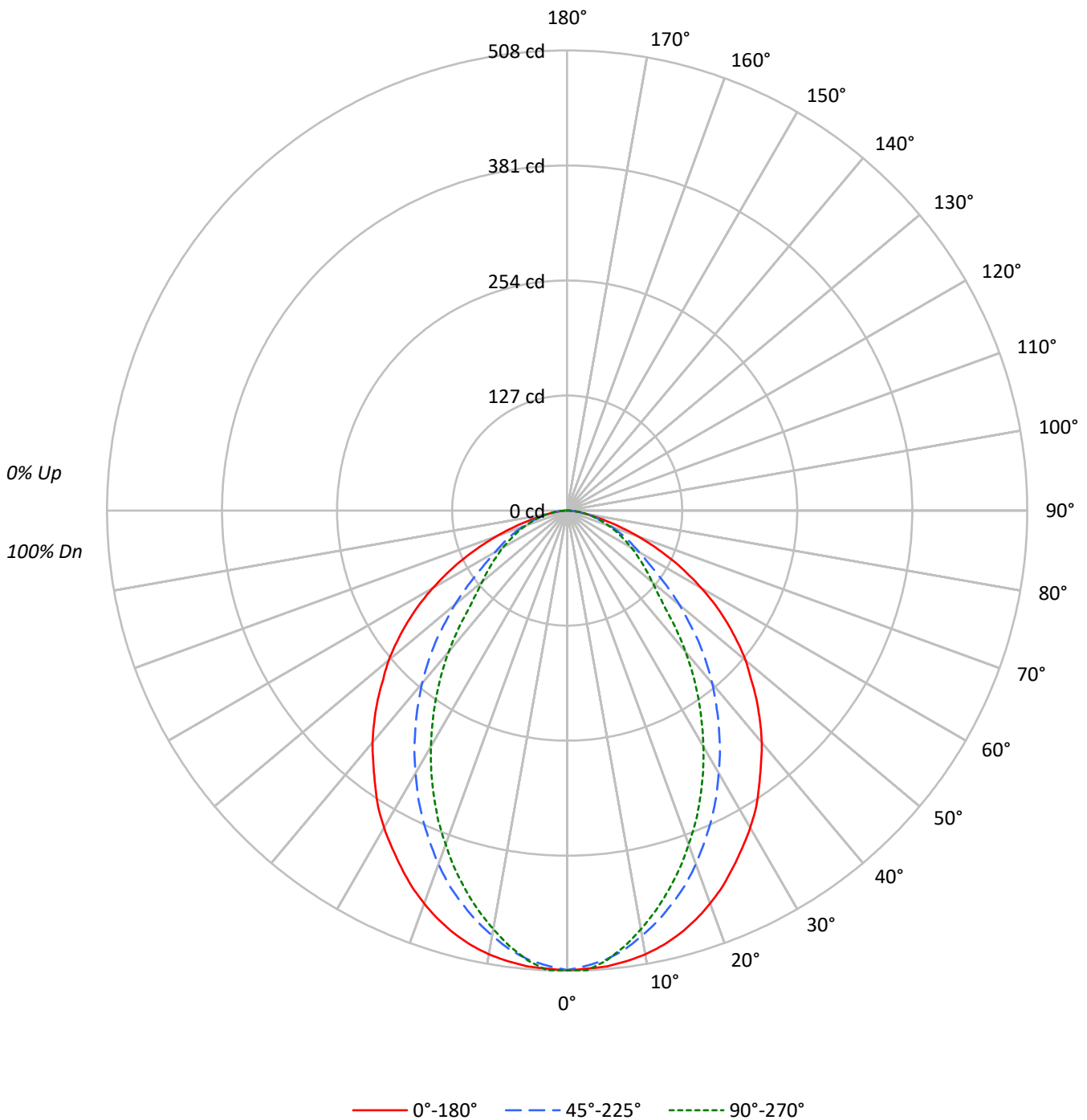
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 961.1 lumens  
Efficiency: N/A  
Efficacy: 49.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11  
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<sub>in</sub>): 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	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3493	3493	3493
5°	3491	3438	3445
10°	3478	3331	3281
15°	3444	3200	3090
20°	3382	3043	2874
25°	3298	2863	2645
30°	3214	2659	2391
35°	3107	2454	2121
40°	3006	2238	1827
45°	2880	2001	1497
50°	2755	1734	1310
55°	2586	1448	1210
60°	2359	1267	1131
65°	2064	1158	1049
70°	1675	1043	976
75°	1202	952	910
80°	829	852	852
85°	608	743	782

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2880 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.2	4.9
10°-20°	127.6	13.3
20°-30°	176.3	18.3
30°-40°	187.8	19.5
40°-50°	165.0	17.2
50°-60°	125.1	13.0
60°-70°	81.2	8.5
70°-80°	40.3	4.2
80°-90°	10.5	1.1
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°	351.1	36.5
0°-40°	538.9	56.1
0°-60°	829.0	86.3
0°-90°	961.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	961.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	505	504	497	499	498	48
15°	483	472	449	438	434	136
25°	434	410	377	358	348	200
35°	370	336	292	266	252	231
45°	296	254	206	169	154	228
55°	215	173	121	104	101	192
65°	127	94	71	66	64	125
75°	45	40	36	35	34	50
85°	8	9	9	9	10	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	507.3	507.3	507.3	507.3	507.3
2.5°	506.2	507.3	502.9	506.8	507.9
5°	505.1	504.0	497.4	499.1	498.5
7.5°	501.8	499.6	488.6	487.5	485.3
10°	497.4	491.9	476.5	472.6	469.3
12.5°	491.3	482.5	463.8	456.1	452.2
15°	483.1	472.1	448.9	438.5	433.5
17.5°	473.2	457.7	433.5	419.2	413.7
20°	461.6	443.4	415.3	398.8	392.2
22.5°	448.9	427.4	396.0	378.4	371.3
25°	434.1	410.4	376.8	357.5	348.1
27.5°	419.2	392.7	356.4	334.9	325.0
30°	404.3	374.0	334.4	311.2	300.8
32.5°	388.3	354.7	314.0	288.6	276.5
35°	369.6	335.5	291.9	265.5	252.3
37.5°	351.4	315.1	270.5	240.7	228.0
40°	334.4	295.8	249.0	216.5	203.3
42.5°	315.1	275.4	227.5	193.3	178.5
45°	295.8	254.5	205.5	168.6	153.7
47.5°	275.4	234.7	182.3	146.0	136.1
50°	257.2	214.3	161.9	128.9	122.3
52.5°	236.3	194.4	141.0	115.7	111.3
55°	215.4	173.0	120.6	104.1	100.8
57.5°	193.9	153.7	104.7	94.2	90.9
60°	171.3	133.9	92.0	83.7	82.1
62.5°	148.7	113.5	81.0	74.9	72.7
65°	126.7	94.2	71.1	65.5	64.4
67.5°	104.1	76.6	61.1	57.3	56.7
70°	83.2	62.2	51.8	49.6	48.5
72.5°	63.9	49.6	43.5	41.9	41.3
75°	45.2	39.7	35.8	34.7	34.2
77.5°	30.3	30.3	28.6	27.5	28.1
80°	20.9	22.0	21.5	21.5	21.5
82.5°	13.8	14.9	15.4	15.4	15.4
85°	7.7	8.8	9.4	9.4	9.9
87.5°	2.8	3.3	3.9	4.4	4.4
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	14.90	16.39	15.26	16.70	17.02	11.14	12.63	11.51	12.95	13.26
	3H	16.21	17.55	16.59	17.87	18.24	12.72	14.06	13.10	14.39	14.75
	4H	16.58	17.83	16.98	18.18	18.56	13.33	14.58	13.73	14.93	15.31
	6H	16.76	17.91	17.17	18.28	18.67	13.80	14.96	14.21	15.32	15.71
	8H	16.79	17.89	17.22	18.28	18.68	13.96	15.06	14.39	15.45	15.85
	12H	16.81	17.86	17.24	18.24	18.67	14.07	15.12	14.50	15.51	15.93
4H	2H	15.01	16.26	15.41	16.61	16.99	11.80	13.06	12.20	13.40	13.78
	3H	16.50	17.54	16.91	17.94	18.34	13.58	14.62	14.00	15.02	15.42
	4H	16.97	17.91	17.41	18.32	18.76	14.30	15.24	14.74	15.65	16.09
	6H	17.26	18.07	17.72	18.51	18.97	14.89	15.70	15.35	16.15	16.61
	8H	17.33	18.09	17.79	18.53	19.00	15.10	15.85	15.56	16.30	16.77
	12H	17.37	18.04	17.85	18.52	19.00	15.25	15.93	15.73	16.40	16.88
8H	4H	17.06	17.81	17.52	18.26	18.73	14.61	15.37	15.08	15.81	16.28
	6H	17.42	18.04	17.92	18.54	19.01	15.32	15.94	15.82	16.44	16.91
	8H	17.54	18.10	18.05	18.61	19.10	15.60	16.16	16.11	16.67	17.16
	12H	17.62	18.12	18.13	18.61	19.18	15.83	16.32	16.34	16.82	17.38
12H	4H	17.05	17.73	17.53	18.21	18.68	14.64	15.31	15.12	15.79	16.27
	6H	17.42	17.98	17.94	18.49	18.98	15.37	15.93	15.89	16.44	16.93
	8H	17.58	18.08	18.09	18.57	19.14	15.71	16.20	16.22	16.69	17.26