

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061716

Luminaire Tested: S125RDR-S610D927-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S610D927-X4F0-XX-UDD-SVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

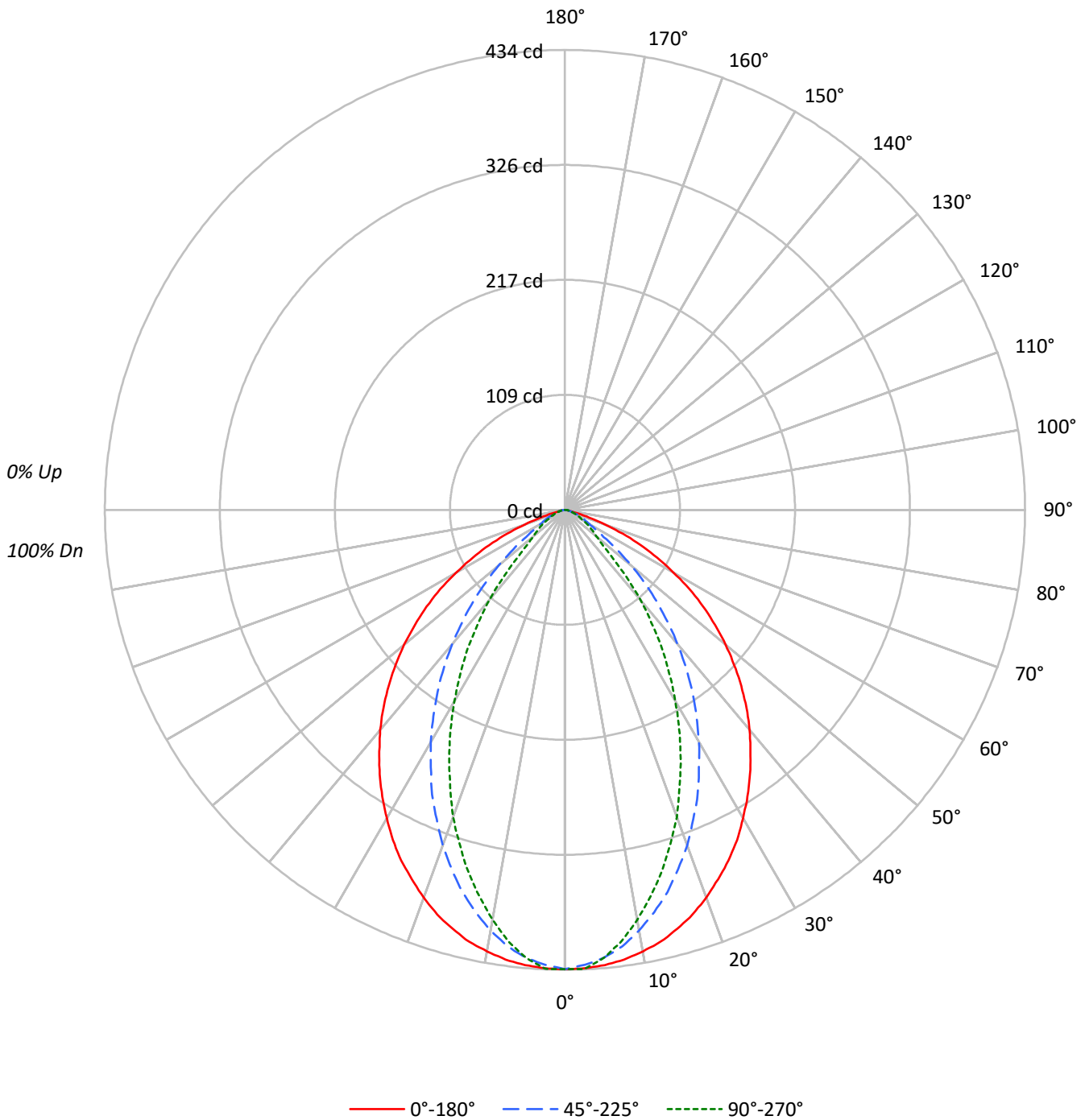
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 627.0 lumens  
Efficiency: N/A  
Efficacy: 32.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01  
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 (Ain): 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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	2985	2985	2985
5°	2981	2932	2932
10°	2958	2819	2746
15°	2918	2662	2517
20°	2853	2470	2260
25°	2774	2252	1962
30°	2671	2010	1655
35°	2560	1759	1342
40°	2436	1486	995
45°	2290	1191	601
50°	2119	873	413
55°	1911	535	343
60°	1624	364	273
65°	1284	279	215
70°	809	199	177
75°	263	146	146
80°	87	111	131
85°	47	87	87

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2290 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.1	6.4
10°-20°	105.9	16.9
20°-30°	139.3	22.2
30°-40°	136.9	21.8
40°-50°	103.5	16.5
50°-60°	62.8	10.0
60°-70°	29.6	4.7
70°-80°	7.7	1.2
80°-90°	1.2	0.2
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°	285.3	45.5
0°-40°	422.1	67.3
0°-60°	588.4	93.9
0°-90°	627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	627.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	434	434	434	434	434	
5°	431	430	424	425	424	41
15°	409	398	374	359	353	115
25°	365	338	296	269	258	168
35°	305	264	209	172	160	190
45°	235	185	122	78	62	181
55°	159	109	45	30	29	142
65°	79	40	17	14	13	78
75°	10	7	6	6	6	15
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	433.5	433.5	433.5	433.5	433.5
2.5°	433.0	433.0	429.7	433.5	433.5
5°	431.3	430.2	424.2	424.7	424.2
7.5°	428.0	425.8	415.3	412.6	410.4
10°	423.1	418.6	403.2	396.6	392.8
12.5°	417.5	409.8	388.9	379.5	373.5
15°	409.3	398.3	373.5	359.2	353.1
17.5°	400.5	384.5	355.3	338.2	330.5
20°	389.4	370.7	337.1	316.2	308.5
22.5°	377.3	355.3	316.2	293.1	282.6
25°	365.2	337.7	296.4	268.8	258.3
27.5°	351.4	320.0	273.8	245.1	233.6
30°	336.0	302.4	252.8	223.1	208.2
32.5°	320.6	284.2	230.8	198.3	183.4
35°	304.6	263.9	209.3	172.4	159.7
37.5°	287.5	244.6	187.3	148.7	133.9
40°	271.0	225.3	165.3	124.5	110.7
42.5°	253.4	206.0	143.2	100.8	85.4
45°	235.2	185.1	122.3	77.7	61.7
47.5°	216.5	166.4	101.4	57.3	46.3
50°	197.8	146.5	81.5	42.4	38.6
52.5°	178.5	127.2	61.7	35.3	33.6
55°	159.2	109.1	44.6	30.3	28.6
57.5°	139.4	89.2	33.6	25.9	24.2
60°	117.9	71.6	26.4	21.5	19.8
62.5°	98.1	56.2	21.5	17.6	16.5
65°	78.8	40.2	17.1	14.3	13.2
67.5°	58.9	27.0	13.2	11.0	11.0
70°	40.2	17.6	9.9	8.8	8.8
72.5°	24.2	10.5	7.2	7.2	7.2
75°	9.9	6.6	5.5	5.5	5.5
77.5°	3.3	3.9	3.9	4.4	4.4
80°	2.2	2.2	2.8	3.3	3.3
82.5°	1.1	1.7	1.7	2.2	2.2
85°	0.6	0.6	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)