

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: P1061744

Luminaire Tested: S125RDR-S610D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061744  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S610D940-X4F0-XX-UDD-SVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

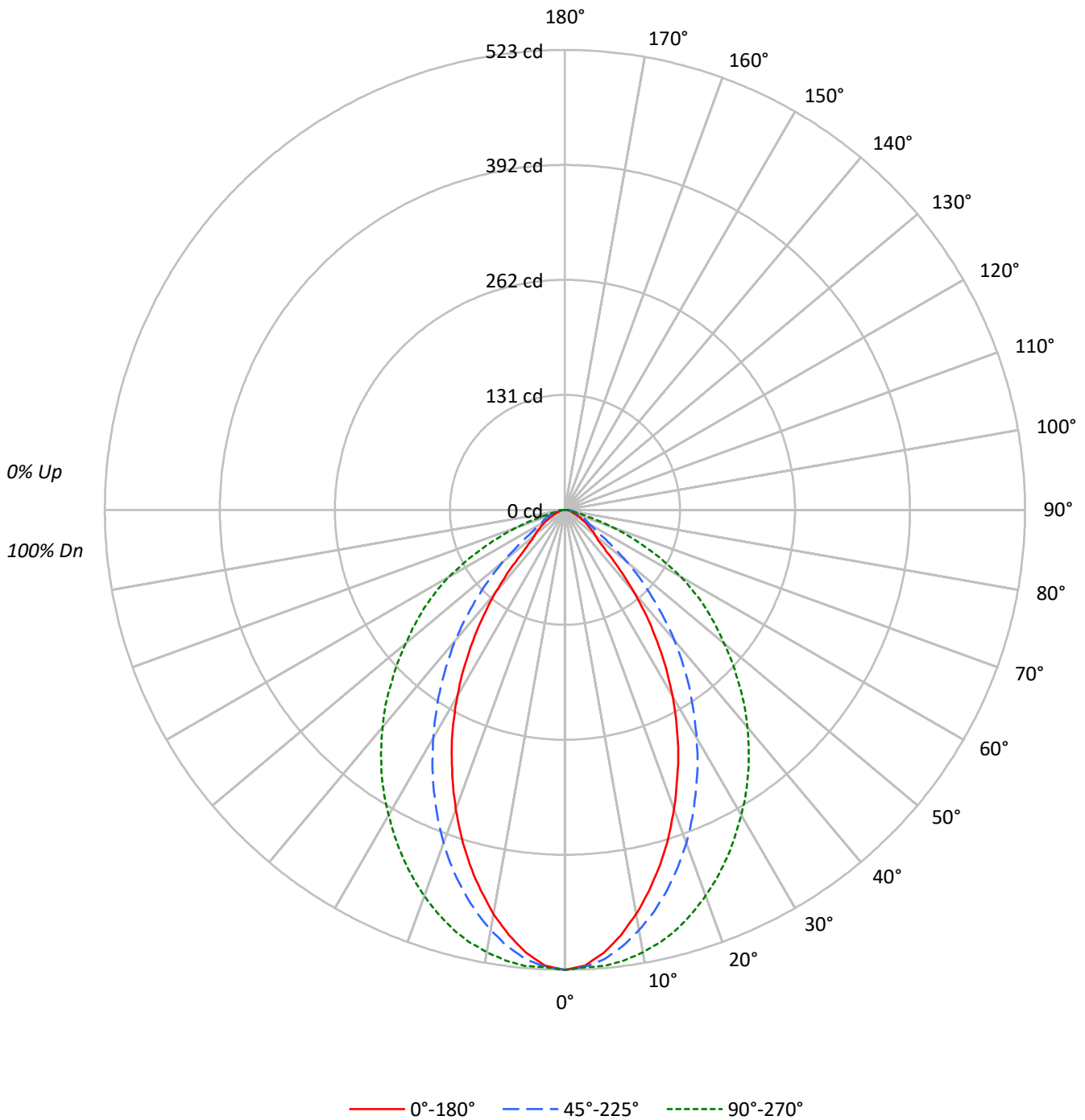
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 755.3 lumens  
Efficiency: N/A  
Efficacy: 38.5 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 (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	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	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	87	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	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	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	41	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				36

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

	0°	45°	90°
0°	3602	3602	3602
5°	3495	3546	3598
10°	3262	3392	3571
15°	2977	3193	3516
20°	2655	2955	3423
25°	2315	2677	3314
30°	1944	2378	3187
35°	1533	2070	3056
40°	1098	1740	2900
45°	647	1365	2719
50°	479	983	2526
55°	402	595	2347
60°	325	435	2093
65°	253	414	1678
70°	211	387	1137
75°	197	346	495
80°	198	345	321
85°	245	442	340

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2719 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	6.4
10°-20°	126.6	16.8
20°-30°	165.5	21.9
30°-40°	161.1	21.3
40°-50°	120.4	15.9
50°-60°	74.7	9.9
60°-70°	39.2	5.2
70°-80°	14.3	1.9
80°-90°	5.4	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°	340.3	45.1
0°-40°	501.3	66.4
0°-60°	696.4	92.2
0°-90°	755.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	506	512	513	516	521	47
15°	418	430	448	475	493	117
25°	305	320	352	400	436	139
35°	182	202	246	312	364	114
45°	66	87	140	219	279	56
55°	34	35	50	129	196	30
65°	16	17	25	55	103	16
75°	7	9	13	14	19	8
85°	3	6	6	6	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	523.1	523.1	523.1	523.1	523.1
2.5°	518.7	523.1	520.0	520.0	520.6
5°	505.7	512.5	513.1	516.2	520.6
7.5°	487.7	495.8	500.7	510.0	516.9
10°	466.6	475.9	485.2	500.7	510.7
12.5°	443.0	454.2	467.8	488.9	503.2
15°	417.6	430.0	448.0	475.3	493.3
17.5°	390.9	403.9	426.3	459.2	480.9
20°	362.4	376.6	403.3	440.5	467.2
22.5°	333.2	349.3	378.5	420.7	452.3
25°	304.7	320.2	352.4	400.2	436.2
27.5°	274.9	291.0	326.4	379.1	418.8
30°	244.5	261.8	299.1	357.4	400.8
32.5°	214.1	232.1	272.4	335.1	382.8
35°	182.4	202.3	246.3	312.1	363.6
37.5°	152.6	173.7	219.6	288.5	343.1
40°	122.2	144.0	193.6	265.6	322.6
42.5°	92.5	114.8	166.9	242.0	302.2
45°	66.4	86.9	140.2	219.0	279.2
47.5°	50.9	62.7	115.4	195.5	258.7
50°	44.7	48.4	91.8	172.5	235.8
52.5°	39.1	41.6	68.3	150.2	215.9
55°	33.5	35.4	49.6	129.1	195.5
57.5°	28.5	30.4	37.8	109.8	174.4
60°	23.6	25.4	31.6	90.6	152.0
62.5°	19.9	20.5	28.5	72.6	127.2
65°	15.5	16.8	25.4	54.6	103.0
67.5°	13.0	13.7	22.3	39.1	79.4
70°	10.5	11.2	19.2	27.3	56.5
72.5°	9.3	9.3	16.1	19.9	36.0
75°	7.4	8.7	13.0	14.3	18.6
77.5°	6.2	8.7	11.2	10.5	9.9
80°	5.0	8.1	8.7	8.7	8.1
82.5°	4.3	6.8	7.4	6.8	6.2
85°	3.1	5.6	5.6	5.6	4.3
87.5°	2.5	5.0	4.3	4.3	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)