

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: P1061747

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S610D940-X4F0-XX-UDD-WVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

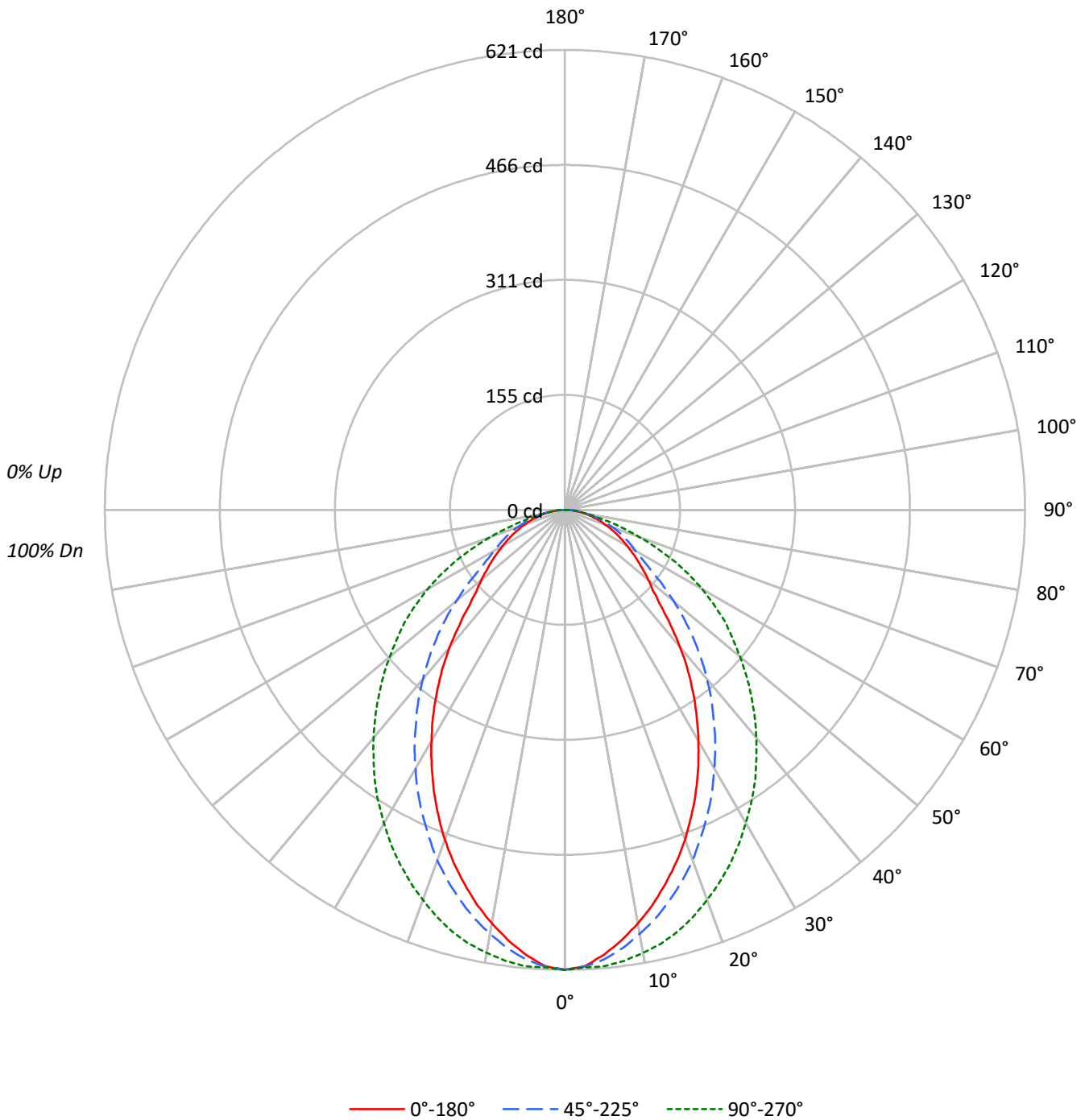
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1164.1 lumens  
Efficiency: N/A  
Efficacy: 59.4 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12  
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88				86	
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76				74	
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66				64	
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58				56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52				50	
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46				44	
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42				40	
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38				36	
9	61	48	41	35	59	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°	4276	4276	4276
5°	4168	4211	4275
10°	3964	4064	4246
15°	3727	3891	4201
20°	3472	3691	4109
25°	3181	3454	4006
30°	2865	3206	3881
35°	2534	2946	3760
40°	2174	2682	3613
45°	1776	2386	3462
50°	1575	2047	3302
55°	1444	1697	3164
60°	1333	1504	2947
65°	1243	1445	2628
70°	1162	1373	2148
75°	1072	1288	1586
80°	1007	1205	1158
85°	932	1177	980

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3462 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	4.9
10°-20°	154.8	13.3
20°-30°	212.7	18.3
30°-40°	225.5	19.4
40°-50°	196.8	16.9
50°-60°	149.5	12.8
60°-70°	100.2	8.6
70°-80°	51.7	4.4
80°-90°	15.5	1.3
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°	425.0	36.5
0°-40°	650.4	55.9
0°-60°	996.8	85.6
0°-90°	1164.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1164.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	621	621	621	621	621	
5°	603	609	609	614	618	56
15°	523	533	546	570	589	147
25°	419	432	455	492	527	192
35°	302	319	350	400	447	188
45°	182	200	245	303	356	144
55°	120	124	141	208	264	108
65°	76	78	89	118	161	76
75°	40	43	48	52	60	43
85°	12	15	15	14	12	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	621.0	621.0	621.0	621.0	621.0
2.5°	616.6	621.0	617.2	617.2	618.5
5°	603.0	609.2	609.2	613.5	618.5
7.5°	586.2	593.0	596.8	606.7	614.1
10°	567.0	574.4	581.3	596.1	607.3
12.5°	546.5	554.6	565.1	584.4	599.9
15°	522.9	532.9	545.9	570.1	589.3
17.5°	499.4	509.3	525.4	554.0	575.7
20°	473.9	484.5	503.7	534.7	560.8
22.5°	446.6	458.4	478.9	514.3	544.7
25°	418.7	431.8	454.7	492.5	527.3
27.5°	389.6	405.1	429.9	470.2	508.7
30°	360.4	375.9	403.2	447.3	488.2
32.5°	331.3	348.0	377.8	424.3	468.4
35°	301.5	318.9	350.5	400.1	447.3
37.5°	272.3	289.7	325.1	376.5	424.3
40°	241.9	259.9	298.4	352.3	402.0
42.5°	210.9	230.1	271.7	327.5	379.0
45°	182.4	200.4	245.0	303.3	355.5
47.5°	161.3	173.1	218.4	278.5	332.5
50°	147.0	153.2	191.1	254.3	308.3
52.5°	132.8	137.7	165.6	229.5	285.4
55°	120.3	124.1	141.4	207.8	263.6
57.5°	107.9	111.7	122.8	186.1	238.2
60°	96.8	99.9	109.2	163.1	214.0
62.5°	86.2	88.7	98.6	141.4	188.0
65°	76.3	78.2	88.7	118.5	161.3
67.5°	66.4	68.2	78.8	96.8	132.8
70°	57.7	58.3	68.2	78.8	106.7
72.5°	49.0	49.6	57.7	63.9	81.9
75°	40.3	42.8	48.4	51.5	59.6
77.5°	32.9	36.0	39.1	40.3	40.3
80°	25.4	29.2	30.4	30.4	29.2
82.5°	18.6	21.7	22.3	21.1	19.9
85°	11.8	14.9	14.9	13.6	12.4
87.5°	5.6	8.1	8.1	7.4	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)