

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: P1061702

Luminaire Tested: S125RDR-S610D840-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061702  
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-S610D840-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, 80 CRI LEDS  
Ballast/Driver: -

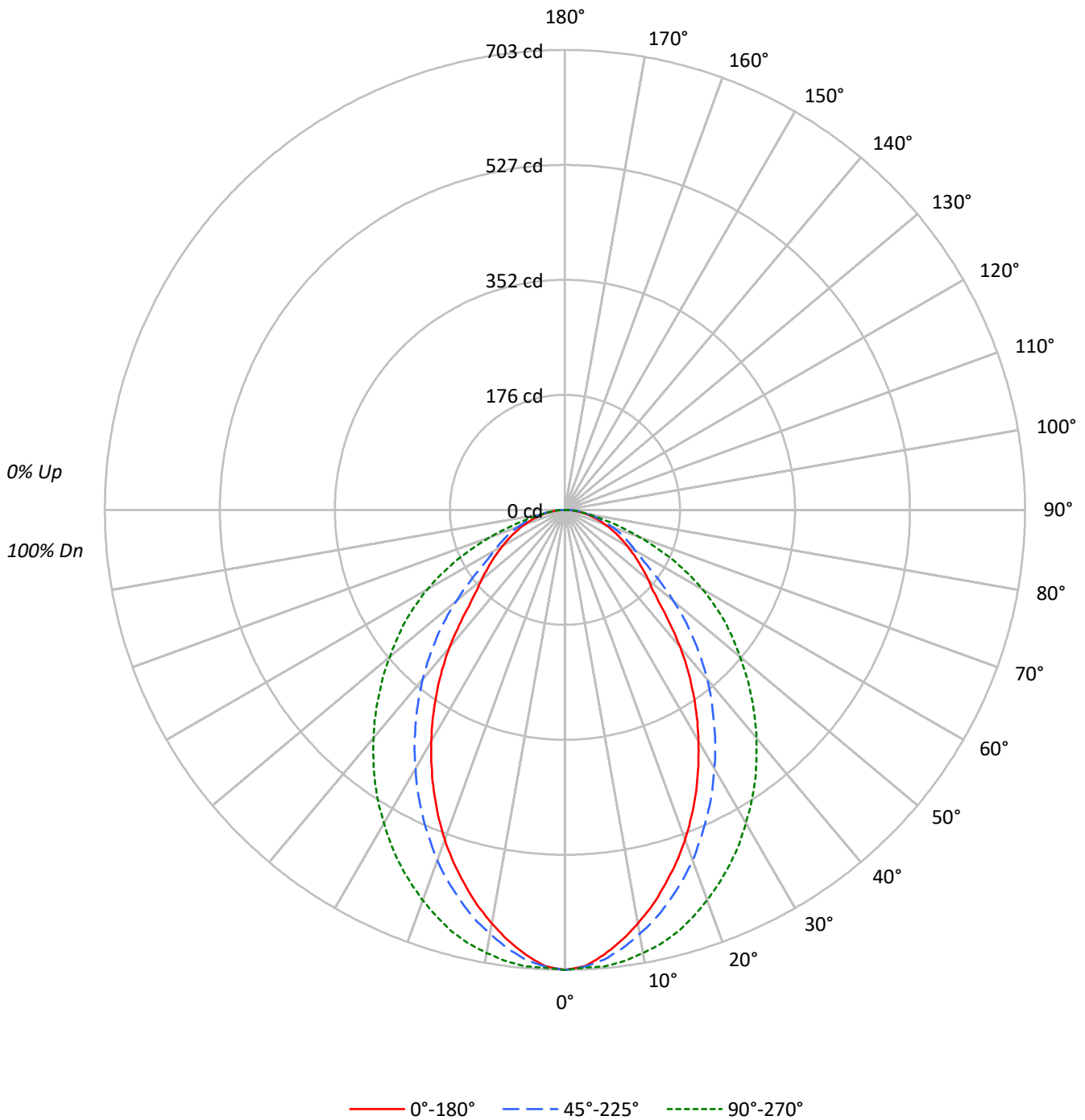
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1318.3 lumens  
Efficiency: N/A  
Efficacy: 67.3 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				
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°	4842	4842	4842
5°	4720	4768	4841
10°	4489	4602	4809
15°	4221	4407	4757
20°	3932	4180	4653
25°	3603	3912	4536
30°	3245	3630	4396
35°	2870	3336	4257
40°	2463	3037	4091
45°	2011	2702	3919
50°	1783	2318	3740
55°	1636	1923	3584
60°	1509	1702	3338
65°	1408	1637	2977
70°	1315	1556	2432
75°	1216	1458	1793
80°	1142	1364	1308
85°	1051	1335	1114

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3919 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.1	4.9
10°-20°	175.3	13.3
20°-30°	240.9	18.3
30°-40°	255.3	19.4
40°-50°	222.9	16.9
50°-60°	169.3	12.8
60°-70°	113.5	8.6
70°-80°	58.5	4.4
80°-90°	17.5	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°	481.3	36.5
0°-40°	736.6	55.9
0°-60°	1128.8	85.6
0°-90°	1318.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1318.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	683	690	690	695	700	64
15°	592	604	618	646	667	166
25°	474	489	515	558	597	217
35°	341	361	397	453	506	213
45°	206	227	278	344	402	163
55°	136	140	160	235	299	122
65°	86	88	100	134	183	86
75°	46	48	55	58	67	49
85°	13	17	17	16	14	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	703.2	703.2	703.2	703.2	703.2
2.5°	698.3	703.2	699.0	699.0	700.4
5°	682.9	689.9	689.9	694.8	700.4
7.5°	663.9	671.6	675.8	687.1	695.5
10°	642.1	650.5	658.3	675.1	687.8
12.5°	618.9	628.1	640.0	661.8	679.3
15°	592.2	603.5	618.2	645.6	667.4
17.5°	565.5	576.8	595.0	627.4	651.9
20°	536.7	548.7	570.5	605.6	635.1
22.5°	505.8	519.2	542.4	582.4	616.8
25°	474.2	489.0	515.0	557.8	597.1
27.5°	441.2	458.8	486.9	532.5	576.1
30°	408.2	425.7	456.6	506.5	552.9
32.5°	375.2	394.1	427.8	480.5	530.4
35°	341.4	361.1	396.9	453.1	506.5
37.5°	308.4	328.1	368.1	426.4	480.5
40°	274.0	294.4	337.9	399.0	455.2
42.5°	238.9	260.6	307.7	370.9	429.2
45°	206.5	226.9	277.5	343.5	402.5
47.5°	182.7	196.0	247.3	315.4	376.6
50°	166.5	173.5	216.4	288.0	349.2
52.5°	150.3	156.0	187.6	259.9	323.2
55°	136.3	140.5	160.2	235.3	298.6
57.5°	122.2	126.5	139.1	210.8	269.8
60°	109.6	113.1	123.6	184.8	242.4
62.5°	97.7	100.5	111.7	160.2	212.9
65°	86.4	88.5	100.5	134.2	182.7
67.5°	75.2	77.3	89.2	109.6	150.3
70°	65.3	66.0	77.3	89.2	120.8
72.5°	55.5	56.2	65.3	72.4	92.7
75°	45.7	48.5	54.8	58.3	67.4
77.5°	37.2	40.7	44.3	45.7	45.7
80°	28.8	33.0	34.4	34.4	33.0
82.5°	21.1	24.6	25.3	23.9	22.5
85°	13.3	16.9	16.9	15.5	14.1
87.5°	6.3	9.1	9.1	8.4	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)