

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: P1061798

Luminaire Tested: S125RDR-S850D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061798  
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-S850D927-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

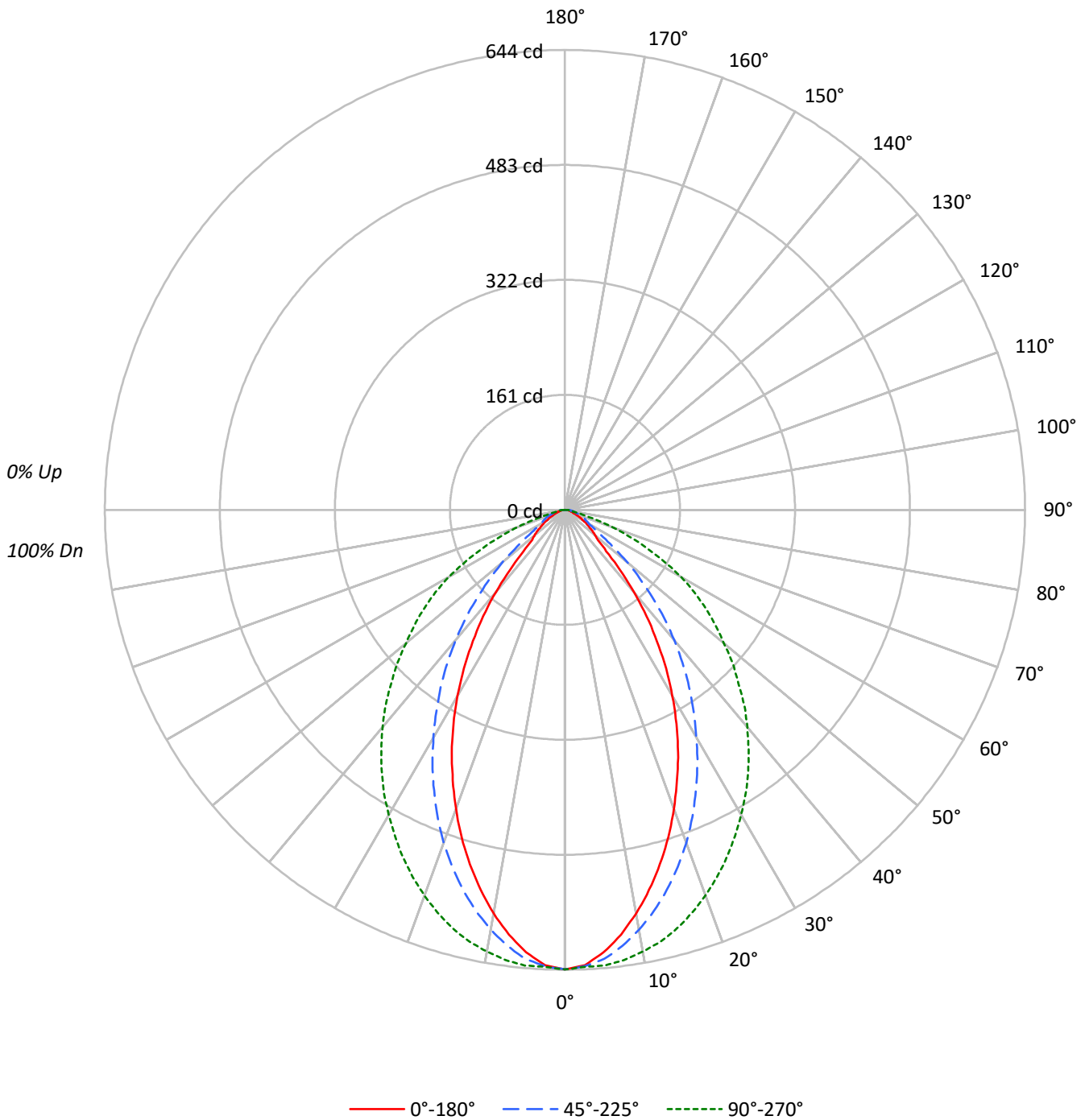
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 929.1 lumens  
Efficiency: N/A  
Efficacy: 36.0 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): 25.8  
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°	4431	4431	4431
5°	4300	4363	4426
10°	4013	4173	4392
15°	3662	3928	4325
20°	3266	3636	4212
25°	2847	3294	4077
30°	2391	2925	3920
35°	1886	2547	3760
40°	1352	2141	3567
45°	796	1680	3345
50°	589	1210	3107
55°	495	733	2886
60°	399	536	2575
65°	311	510	2064
70°	262	477	1399
75°	245	426	609
80°	242	424	393
85°	300	545	419

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3345 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.3	6.4
10°-20°	155.8	16.8
20°-30°	203.6	21.9
30°-40°	198.1	21.3
40°-50°	148.1	15.9
50°-60°	91.8	9.9
60°-70°	48.2	5.2
70°-80°	17.6	1.9
80°-90°	6.6	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°	418.6	45.1
0°-40°	616.7	66.4
0°-60°	856.7	92.2
0°-90°	929.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	929.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	622	630	631	635	640	58
15°	514	529	551	585	607	143
25°	375	394	434	492	537	171
35°	224	249	303	384	447	140
45°	82	107	172	270	344	69
55°	41	44	61	159	240	37
65°	19	21	31	67	127	20
75°	9	11	16	18	23	10
85°	4	7	7	7	5	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	643.5	643.5	643.5	643.5	643.5
2.5°	638.1	643.5	639.7	639.7	640.4
5°	622.1	630.5	631.3	635.1	640.4
7.5°	600.0	609.9	616.0	627.4	635.8
10°	574.0	585.5	596.9	616.0	628.2
12.5°	545.0	558.7	575.5	601.5	619.0
15°	513.7	529.0	551.1	584.7	606.8
17.5°	480.9	496.9	524.4	564.9	591.6
20°	445.8	463.3	496.2	542.0	574.8
22.5°	409.9	429.7	465.6	517.5	556.5
25°	374.8	393.9	433.6	492.3	536.6
27.5°	338.1	358.0	401.5	466.4	515.2
30°	300.7	322.1	367.9	439.7	493.1
32.5°	263.3	285.5	335.1	412.2	471.0
35°	224.4	248.8	303.0	383.9	447.3
37.5°	187.8	213.7	270.2	354.9	422.1
40°	150.4	177.1	238.2	326.7	396.9
42.5°	113.7	141.2	205.3	297.7	371.7
45°	81.7	106.9	172.5	269.5	343.5
47.5°	62.6	77.1	142.0	240.4	318.3
50°	55.0	59.5	113.0	212.2	290.1
52.5°	48.1	51.1	84.0	184.7	265.6
55°	41.2	43.5	61.1	158.8	240.4
57.5°	35.1	37.4	46.6	135.1	214.5
60°	29.0	31.3	38.9	111.4	187.0
62.5°	24.4	25.2	35.1	89.3	156.5
65°	19.1	20.6	31.3	67.2	126.7
67.5°	16.0	16.8	27.5	48.1	97.7
70°	13.0	13.7	23.7	33.6	69.5
72.5°	11.4	11.4	19.8	24.4	44.3
75°	9.2	10.7	16.0	17.6	22.9
77.5°	7.6	10.7	13.7	13.0	12.2
80°	6.1	9.9	10.7	10.7	9.9
82.5°	5.3	8.4	9.2	8.4	7.6
85°	3.8	6.9	6.9	6.9	5.3
87.5°	3.1	6.1	5.3	5.3	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)