

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: P1061808

Luminaire Tested: S125RDR-S850D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S850D930-X4F0-XX-UDD-SVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

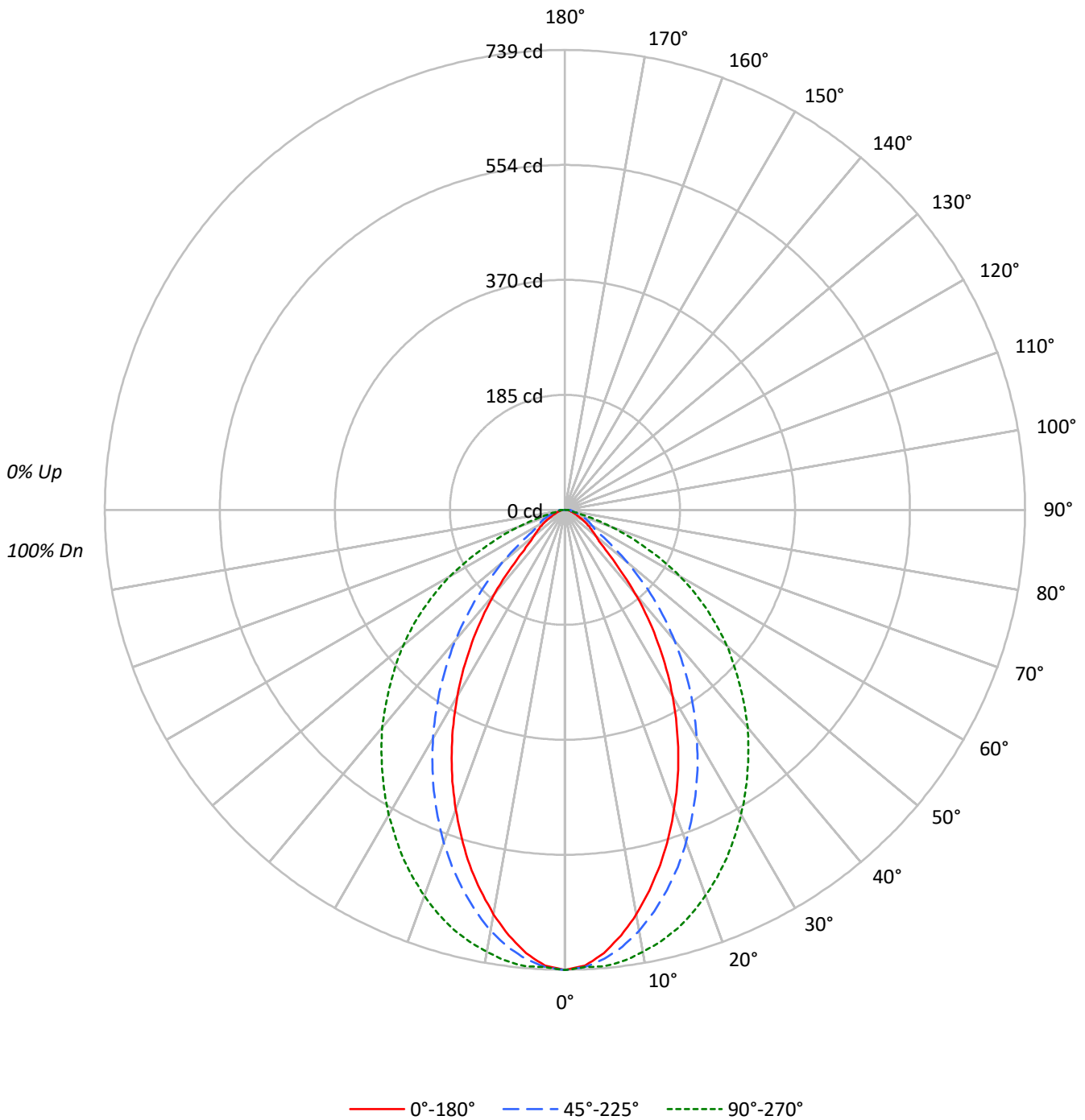
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1070.9 lumens  
Efficiency: N/A  
Efficacy: 41.5 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): 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	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	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	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

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

	0°	45°	90°
0°	5091	5091	5091
5°	4942	5007	5088
10°	4614	4801	5043
15°	4212	4509	4968
20°	3754	4168	4836
25°	3271	3784	4680
30°	2748	3367	4498
35°	2186	2926	4299
40°	1575	2457	4103
45°	934	1951	3864
50°	690	1388	3635
55°	585	858	3330
60°	476	693	2932
65°	371	640	2317
70°	316	554	1550
75°	293	482	628
80°	313	500	436
85°	371	743	498

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3864 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.1	6.4
10°-20°	179.0	16.7
20°-30°	233.9	21.8
30°-40°	227.9	21.3
40°-50°	170.9	16.0
50°-60°	107.1	10.0
60°-70°	55.8	5.2
70°-80°	20.2	1.9
80°-90°	8.0	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°	481.0	44.9
0°-40°	708.9	66.2
0°-60°	987.0	92.2
0°-90°	1070.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1070.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	715	724	724	730	736	66
15°	591	608	632	672	697	165
25°	431	454	498	566	616	197
35°	260	288	348	441	512	162
45°	96	124	200	310	397	81
55°	49	51	72	187	277	43
65°	23	24	39	75	142	23
75°	11	15	18	19	24	12
85°	5	8	9	9	6	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	739.4	739.4	739.4	739.4	739.4
2.5°	733.1	740.1	735.4	735.4	735.4
5°	715.0	724.4	724.4	729.9	736.2
7.5°	689.9	700.9	707.9	721.3	730.7
10°	660.0	673.4	686.7	708.7	721.3
12.5°	626.2	641.9	660.8	691.4	710.3
15°	590.9	608.1	632.5	671.8	696.9
17.5°	552.4	572.8	601.9	649.0	679.6
20°	512.3	532.7	568.9	622.3	660.0
22.5°	472.2	494.2	533.5	594.0	638.8
25°	430.6	454.1	498.1	565.7	616.0
27.5°	388.1	412.5	461.2	536.6	590.9
30°	345.7	370.9	423.5	505.2	565.7
32.5°	303.3	330.0	385.8	473.0	539.0
35°	260.1	287.6	348.1	440.8	511.5
37.5°	218.4	245.9	310.4	407.8	484.0
40°	175.2	205.1	273.4	374.8	456.5
42.5°	132.8	163.4	236.5	341.8	426.6
45°	95.9	124.1	200.4	309.6	396.8
47.5°	73.9	89.6	163.4	276.6	367.7
50°	64.4	69.1	129.6	245.9	339.4
52.5°	55.8	58.9	97.4	217.6	308.8
55°	48.7	51.1	71.5	187.0	277.4
57.5°	40.9	44.0	56.6	157.1	245.1
60°	34.6	36.1	50.3	129.6	212.9
62.5°	28.3	29.9	44.8	102.1	176.8
65°	22.8	24.4	39.3	75.4	142.2
67.5°	18.9	19.6	33.0	53.4	109.2
70°	15.7	16.5	27.5	36.9	77.0
72.5°	13.4	15.7	22.0	26.7	48.7
75°	11.0	14.9	18.1	18.9	23.6
77.5°	9.4	14.1	14.9	14.9	13.4
80°	7.9	11.8	12.6	11.8	11.0
82.5°	6.3	9.4	10.2	10.2	8.6
85°	4.7	7.9	9.4	8.6	6.3
87.5°	3.1	7.1	7.9	7.1	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)