

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: P1061805

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S850D930-X4F0-XX-UDD-BVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

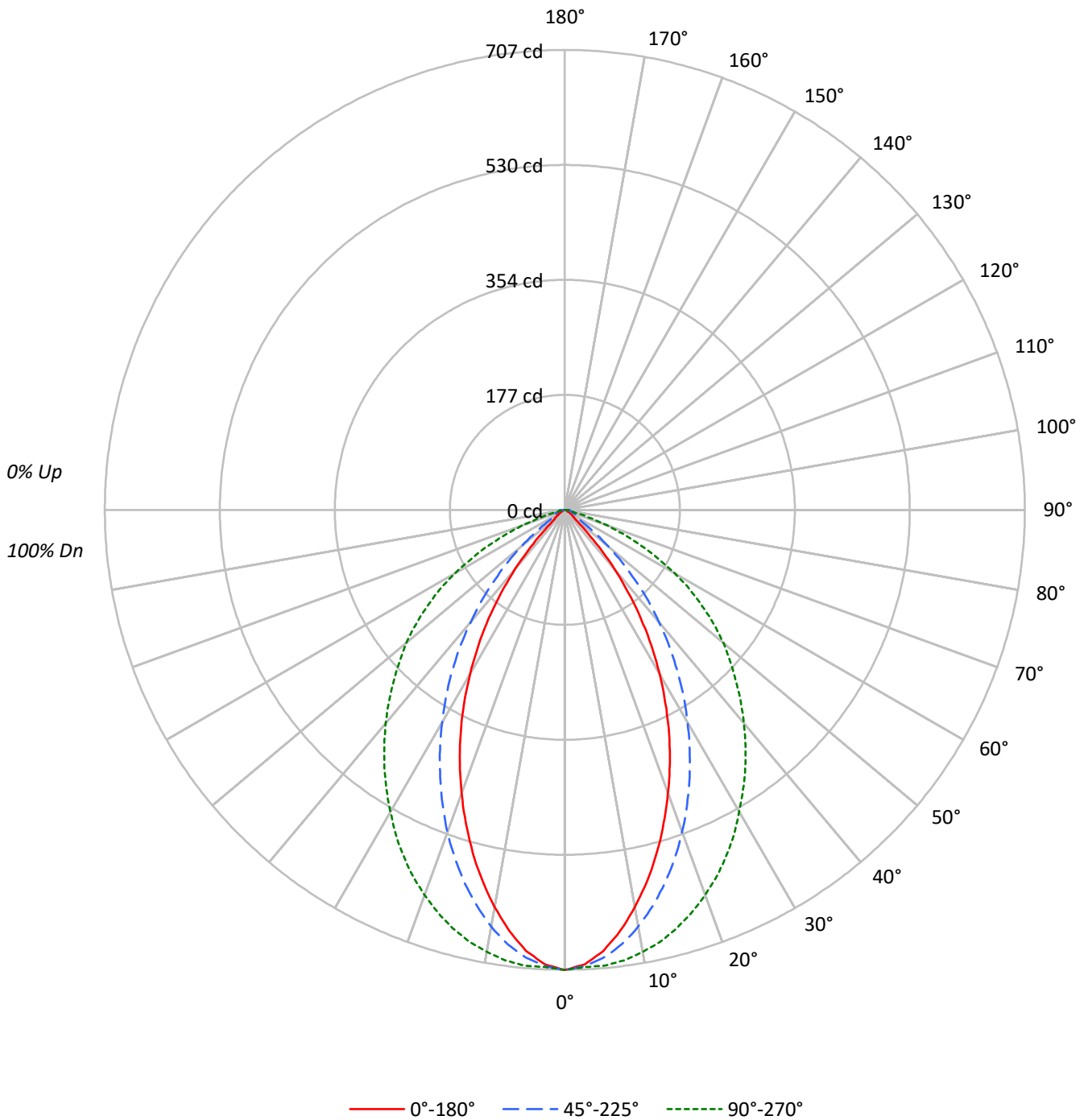
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 915.1 lumens  
Efficiency: N/A  
Efficacy: 35.5 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98  
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				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53				
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49				
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41				
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38				

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

	0°	45°	90°
0°	4870	4870	4870
5°	4703	4774	4861
10°	4335	4549	4824
15°	3893	4235	4744
20°	3397	3864	4618
25°	2878	3444	4459
30°	2312	2999	4261
35°	1710	2530	4062
40°	1060	2020	3850
45°	413	1477	3619
50°	194	925	3409
55°	142	396	3095
60°	98	281	2684
65°	64	295	2087
70°	62	270	1313
75°	82	271	418
80°	123	313	282
85°	190	624	434

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3619 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	7.1
10°-20°	168.0	18.4
20°-30°	214.0	23.4
30°-40°	199.2	21.8
40°-50°	137.1	15.0
50°-60°	77.6	8.5
60°-70°	36.7	4.0
70°-80°	11.5	1.3
80°-90°	6.0	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°	446.9	48.8
0°-40°	646.2	70.6
0°-60°	860.9	94.1
0°-90°	915.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	915.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	680	690	691	697	703	63
15°	546	564	594	639	666	152
25°	379	403	453	530	587	173
35°	204	232	301	404	483	126
45°	42	68	152	274	372	40
55°	12	13	33	158	258	11
65°	4	5	18	57	128	4
75°	3	7	10	11	16	3
85°	2	6	8	7	6	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	707.3	707.3	707.3	707.3	707.3
2.5°	699.4	706.5	701.8	702.5	703.3
5°	680.5	690.0	690.8	697.0	703.3
7.5°	653.0	664.8	673.5	688.4	698.6
10°	620.0	634.2	650.7	675.0	690.0
12.5°	584.7	601.2	624.0	658.5	679.7
15°	546.2	564.2	594.1	638.9	665.6
17.5°	505.3	525.7	561.9	615.3	649.1
20°	463.6	485.6	527.3	588.6	630.2
22.5°	422.0	444.8	491.1	559.5	609.8
25°	378.8	403.1	453.4	529.7	587.0
27.5°	334.8	359.9	415.7	499.0	562.7
30°	290.8	317.5	377.2	467.6	535.9
32.5°	247.5	274.3	339.5	436.1	510.0
35°	203.5	231.8	301.0	403.9	483.3
37.5°	159.5	190.2	263.3	370.9	455.8
40°	117.9	147.0	224.7	338.7	428.3
42.5°	78.6	106.9	190.2	306.5	400.0
45°	42.4	67.6	151.7	274.3	371.7
47.5°	22.8	36.1	118.7	242.8	344.2
50°	18.1	20.4	86.4	213.7	318.3
52.5°	14.9	16.5	56.6	186.2	288.4
55°	11.8	13.4	33.0	158.0	257.8
57.5°	9.4	11.0	21.2	131.2	227.9
60°	7.1	8.6	20.4	105.3	194.9
62.5°	5.5	6.3	18.9	80.9	160.3
65°	3.9	4.7	18.1	56.6	128.1
67.5°	3.1	3.9	16.5	36.1	95.9
70°	3.1	3.1	13.4	23.6	65.2
72.5°	3.1	5.5	11.8	15.7	39.3
75°	3.1	7.1	10.2	11.0	15.7
77.5°	3.1	7.9	8.6	8.6	8.6
80°	3.1	7.1	7.9	7.9	7.1
82.5°	3.1	6.3	7.1	7.9	6.3
85°	2.4	6.3	7.9	7.1	5.5
87.5°	2.4	6.3	7.1	6.3	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)