

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: P1061553

Luminaire Tested: S125RDR-S1270D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061553  
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-S1270D927-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: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

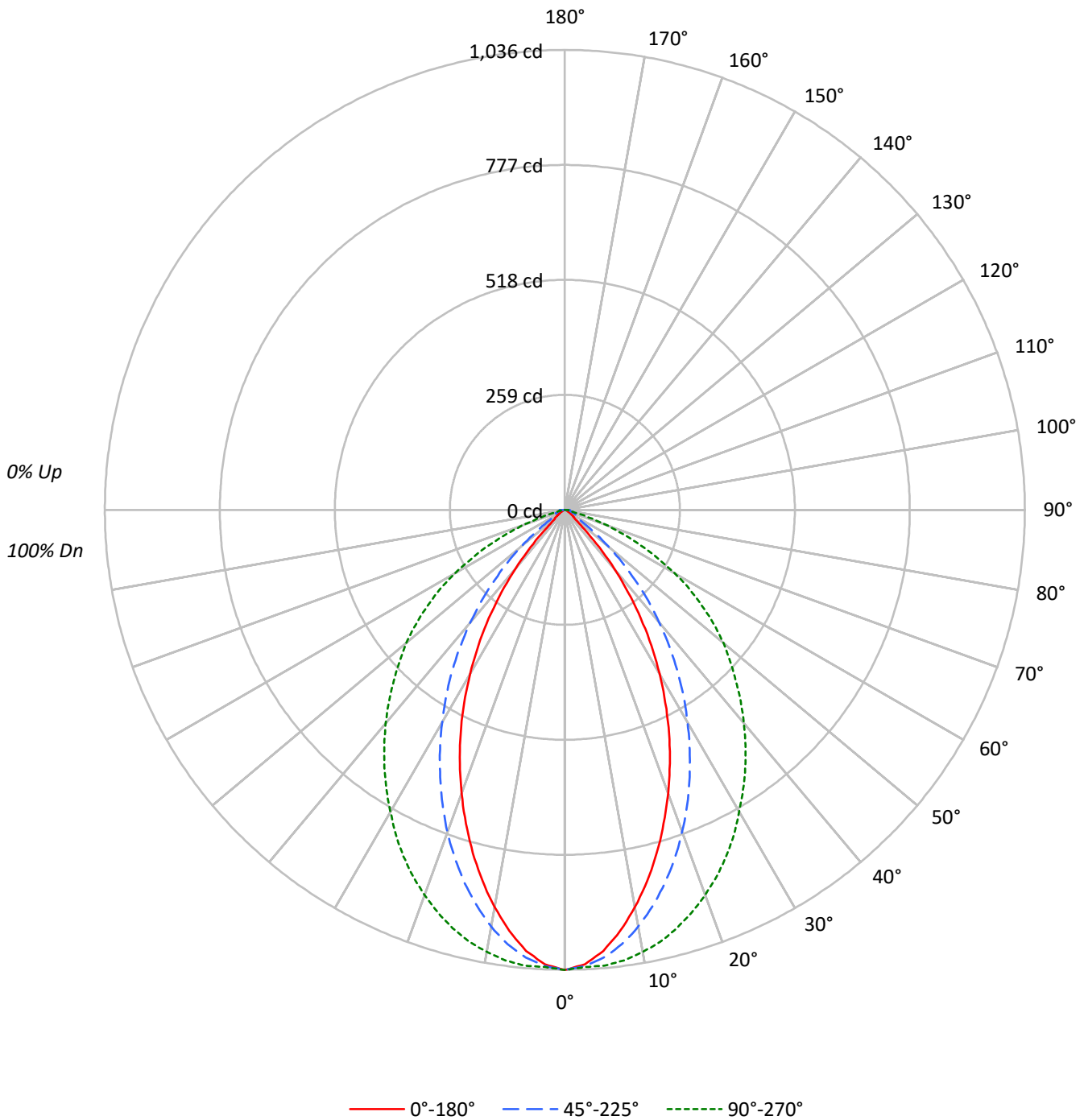
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1340.9 lumens  
Efficiency: N/A  
Efficacy: 32.1 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): 41.8  
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°	7136	7136	7136
5°	6892	6996	7123
10°	6352	6666	7069
15°	5705	6206	6953
20°	4978	5662	6767
25°	4217	5047	6535
30°	3388	4394	6244
35°	2507	3707	5953
40°	1552	2960	5641
45°	606	2165	5304
50°	284	1357	4996
55°	208	581	4534
60°	143	412	3933
65°	94	432	3058
70°	93	395	1925
75°	122	399	612
80°	182	456	412
85°	276	908	640

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5304 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.0	7.1
10°-20°	246.3	18.4
20°-30°	313.6	23.4
30°-40°	291.9	21.8
40°-50°	200.9	15.0
50°-60°	113.8	8.5
60°-70°	53.7	4.0
70°-80°	16.8	1.3
80°-90°	8.8	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°	654.9	48.8
0°-40°	946.9	70.6
0°-60°	1261.6	94.1
0°-90°	1340.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1340.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	997	1011	1012	1021	1031	92
15°	800	827	871	936	975	223
25°	555	591	664	776	860	253
35°	298	340	441	592	708	184
45°	62	99	222	402	545	58
55°	17	20	48	232	378	16
65°	6	7	26	83	188	6
75°	5	10	15	16	23	5
85°	4	9	12	10	8	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1036.4	1036.4	1036.4	1036.4	1036.4
2.5°	1024.9	1035.2	1028.3	1029.5	1030.6
5°	997.2	1011.1	1012.2	1021.4	1030.6
7.5°	956.9	974.2	986.9	1008.8	1023.7
10°	908.6	929.3	953.5	989.2	1011.1
12.5°	856.8	880.9	914.3	965.0	996.1
15°	800.3	826.8	870.6	936.2	975.4
17.5°	740.5	770.4	823.4	901.7	951.2
20°	679.4	711.7	772.7	862.5	923.5
22.5°	618.4	651.8	719.7	819.9	893.6
25°	555.1	590.7	664.4	776.1	860.2
27.5°	490.6	527.4	609.2	731.2	824.5
30°	426.1	465.2	552.7	685.2	785.4
32.5°	362.7	401.9	497.5	639.1	747.4
35°	298.3	339.7	441.0	591.9	708.2
37.5°	233.8	278.7	385.8	543.5	667.9
40°	172.7	215.3	329.3	496.3	627.6
42.5°	115.2	156.6	278.7	449.1	586.1
45°	62.2	99.0	222.3	401.9	544.7
47.5°	33.4	53.0	173.9	355.8	504.4
50°	26.5	29.9	126.7	313.2	466.4
52.5°	21.9	24.2	82.9	272.9	422.6
55°	17.3	19.6	48.4	231.5	377.7
57.5°	13.8	16.1	31.1	192.3	334.0
60°	10.4	12.7	29.9	154.3	285.6
62.5°	8.1	9.2	27.6	118.6	234.9
65°	5.8	6.9	26.5	82.9	187.7
67.5°	4.6	5.8	24.2	53.0	140.5
70°	4.6	4.6	19.6	34.5	95.6
72.5°	4.6	8.1	17.3	23.0	57.6
75°	4.6	10.4	15.0	16.1	23.0
77.5°	4.6	11.5	12.7	12.7	12.7
80°	4.6	10.4	11.5	11.5	10.4
82.5°	4.6	9.2	10.4	11.5	9.2
85°	3.5	9.2	11.5	10.4	8.1
87.5°	3.5	9.2	10.4	9.2	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)