

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: P1061472

Luminaire Tested: S125RDR-S1090D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061472  
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-S1090D927-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: -

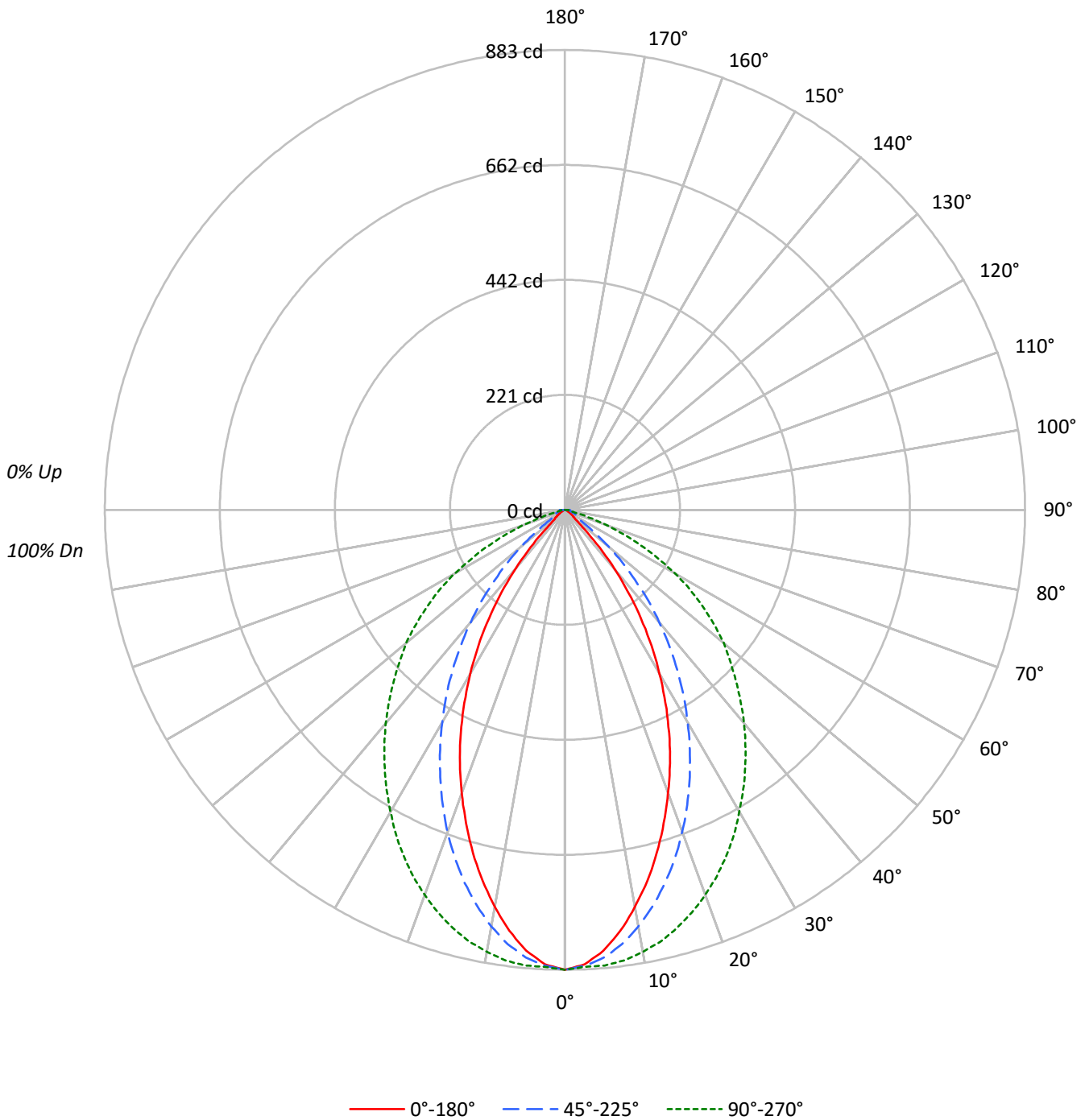
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1142.5 lumens  
Efficiency: N/A  
Efficacy: 32.6 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): 35  
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	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°	6080	6080	6080
5°	5873	5961	6070
10°	5413	5680	6023
15°	4861	5288	5924
20°	4242	4824	5766
25°	3593	4301	5569
30°	2887	3745	5320
35°	2136	3159	5072
40°	1323	2522	4807
45°	516	1844	4519
50°	242	1156	4257
55°	176	495	3863
60°	121	351	3350
65°	80	368	2605
70°	79	336	1639
75°	104	341	521
80°	155	389	349
85°	229	774	545

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4519 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.0	7.1
10°-20°	209.8	18.4
20°-30°	267.3	23.4
30°-40°	248.8	21.8
40°-50°	171.2	15.0
50°-60°	96.9	8.5
60°-70°	45.8	4.0
70°-80°	14.3	1.3
80°-90°	7.4	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°	558.1	48.8
0°-40°	806.8	70.6
0°-60°	1075.0	94.1
0°-90°	1142.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1142.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	883	883	883	883	883	
5°	850	862	862	870	878	79
15°	682	704	742	798	831	190
25°	473	503	566	661	733	216
35°	254	290	376	504	603	157
45°	53	84	189	342	464	50
55°	15	17	41	197	322	14
65°	5	6	23	71	160	5
75°	4	9	13	14	20	4
85°	3	8	10	9	7	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	883.1	883.1	883.1	883.1	883.1
2.5°	873.3	882.1	876.2	877.2	878.2
5°	849.7	861.5	862.5	870.3	878.2
7.5°	815.4	830.1	840.9	859.5	872.3
10°	774.2	791.8	812.4	842.9	861.5
12.5°	730.0	750.6	779.1	822.3	848.8
15°	681.9	704.5	741.8	797.7	831.1
17.5°	630.9	656.4	701.6	768.3	810.5
20°	578.9	606.4	658.4	734.9	786.9
22.5°	526.9	555.4	613.3	698.6	761.4
25°	472.9	503.4	566.2	661.3	733.0
27.5°	418.0	449.4	519.1	623.1	702.6
30°	363.1	396.4	471.0	583.8	669.2
32.5°	309.1	342.4	423.9	544.6	636.8
35°	254.1	289.5	375.8	504.3	603.4
37.5°	199.2	237.5	328.7	463.1	569.1
40°	147.2	183.5	280.6	422.9	534.8
42.5°	98.1	133.4	237.5	382.7	499.4
45°	53.0	84.4	189.4	342.4	464.1
47.5°	28.5	45.1	148.2	303.2	429.8
50°	22.6	25.5	107.9	266.9	397.4
52.5°	18.6	20.6	70.6	232.5	360.1
55°	14.7	16.7	41.2	197.2	321.8
57.5°	11.8	13.7	26.5	163.9	284.6
60°	8.8	10.8	25.5	131.5	243.3
62.5°	6.9	7.8	23.5	101.1	200.2
65°	4.9	5.9	22.6	70.6	159.9
67.5°	3.9	4.9	20.6	45.1	119.7
70°	3.9	3.9	16.7	29.4	81.4
72.5°	3.9	6.9	14.7	19.6	49.1
75°	3.9	8.8	12.8	13.7	19.6
77.5°	3.9	9.8	10.8	10.8	10.8
80°	3.9	8.8	9.8	9.8	8.8
82.5°	3.9	7.8	8.8	9.8	7.8
85°	2.9	7.8	9.8	8.8	6.9
87.5°	2.9	7.8	8.8	7.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)