

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: P1061571

Luminaire Tested: S125RDR-S1270D935-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061571  
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-S1270D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

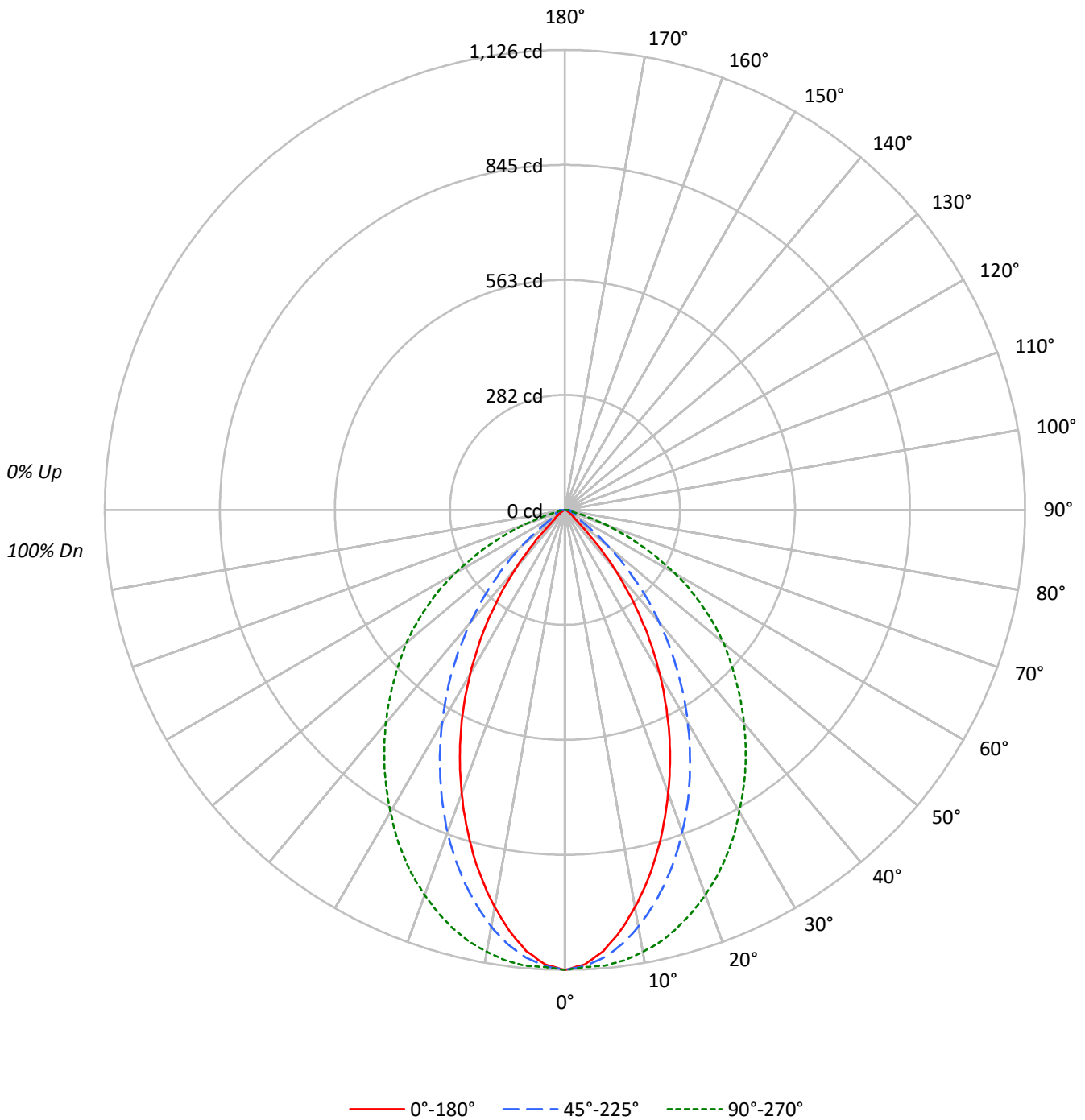
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1457.4 lumens  
Efficiency: N/A  
Efficacy: 34.9 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°	7756	7756	7756
5°	7491	7604	7742
10°	6904	7245	7683
15°	6201	6745	7557
20°	5410	6153	7355
25°	4583	5487	7102
30°	3682	4777	6786
35°	2725	4030	6470
40°	1687	3218	6131
45°	658	2353	5764
50°	308	1475	5430
55°	226	631	4928
60°	156	448	4274
65°	103	469	3324
70°	101	429	2092
75°	133	434	665
80°	198	496	448
85°	300	987	695

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5764 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.3	7.1
10°-20°	267.6	18.4
20°-30°	340.9	23.4
30°-40°	317.3	21.8
40°-50°	218.4	15.0
50°-60°	123.6	8.5
60°-70°	58.4	4.0
70°-80°	18.3	1.3
80°-90°	9.5	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°	711.8	48.8
0°-40°	1029.1	70.6
0°-60°	1371.2	94.1
0°-90°	1457.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1457.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1084	1099	1100	1110	1120	100
15°	870	899	946	1018	1060	242
25°	603	642	722	844	935	275
35°	324	369	479	643	770	200
45°	68	108	242	437	592	64
55°	19	21	53	252	410	17
65°	6	8	29	90	204	7
75°	5	11	16	18	25	5
85°	4	10	12	11	9	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1126.4	1126.4	1126.4	1126.4	1126.4
2.5°	1113.9	1125.2	1117.7	1118.9	1120.2
5°	1083.9	1098.9	1100.2	1110.2	1120.2
7.5°	1040.1	1058.8	1072.6	1096.4	1112.7
10°	987.5	1010.0	1036.3	1075.1	1098.9
12.5°	931.2	957.5	993.8	1048.8	1082.6
15°	869.9	898.6	946.2	1017.5	1060.1
17.5°	804.8	837.3	894.9	980.0	1033.8
20°	738.4	773.5	839.8	937.4	1003.8
22.5°	672.1	708.4	782.2	891.1	971.2
25°	603.3	642.1	722.2	843.6	934.9
27.5°	533.2	573.2	662.1	794.8	896.1
30°	463.1	505.6	600.8	744.7	853.6
32.5°	394.3	436.8	540.7	694.6	812.3
35°	324.2	369.2	479.4	643.3	769.7
37.5°	254.1	302.9	419.3	590.8	725.9
40°	187.7	234.0	358.0	539.4	682.1
42.5°	125.2	170.2	302.9	488.1	637.1
45°	67.6	107.6	241.6	436.8	592.0
47.5°	36.3	57.6	189.0	386.7	548.2
50°	28.8	32.5	137.7	340.4	506.9
52.5°	23.8	26.3	90.1	296.6	459.3
55°	18.8	21.3	52.6	251.6	410.5
57.5°	15.0	17.5	33.8	209.0	363.0
60°	11.3	13.8	32.5	167.7	310.4
62.5°	8.8	10.0	30.0	128.9	255.3
65°	6.3	7.5	28.8	90.1	204.0
67.5°	5.0	6.3	26.3	57.6	152.7
70°	5.0	5.0	21.3	37.5	103.9
72.5°	5.0	8.8	18.8	25.0	62.6
75°	5.0	11.3	16.3	17.5	25.0
77.5°	5.0	12.5	13.8	13.8	13.8
80°	5.0	11.3	12.5	12.5	11.3
82.5°	5.0	10.0	11.3	12.5	10.0
85°	3.8	10.0	12.5	11.3	8.8
87.5°	3.8	10.0	11.3	10.0	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)