

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: P1061561

Luminaire Tested: S125RDR-S1270D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061561  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1270D930-X4F0-XX-UDD-BVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

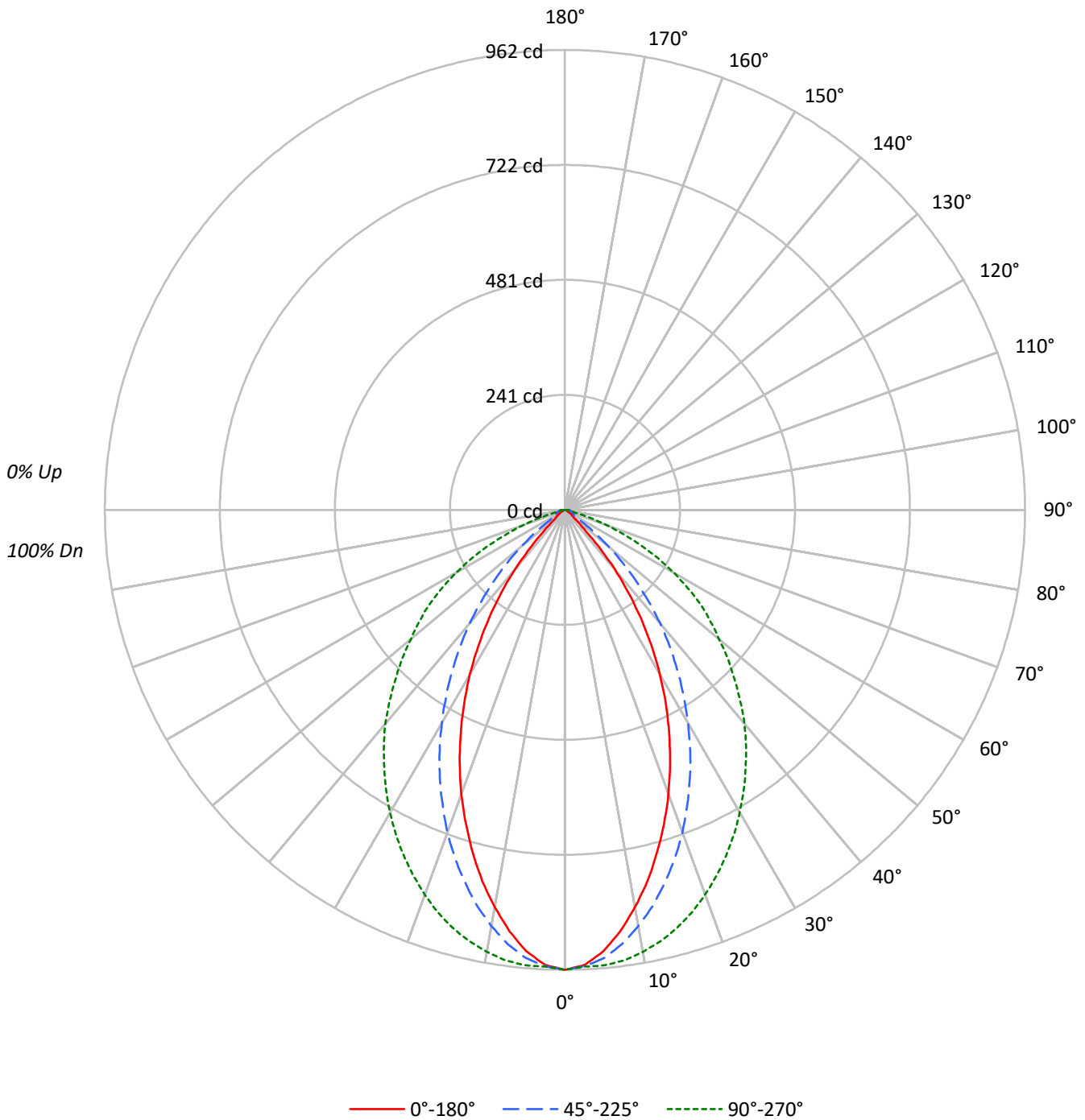
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1237.6 lumens  
Efficiency: N/A  
Efficacy: 29.6 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): 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	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	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	68	74	70	67	65				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				

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

	0°	45°	90°
0°	6625	6625	6625
5°	6405	6503	6610
10°	5899	6180	6561
15°	5296	5752	6453
20°	4637	5262	6277
25°	3916	4700	6059
30°	3156	4089	5813
35°	2321	3446	5538
40°	1449	2780	5251
45°	542	2031	4880
50°	254	1269	4506
55°	185	526	4168
60°	131	277	3606
65°	77	327	2858
70°	72	382	1814
75°	96	378	567
80°	143	468	424
85°	284	750	561

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4880 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	7.1
10°-20°	228.4	18.5
20°-30°	291.0	23.5
30°-40°	270.8	21.9
40°-50°	185.6	15.0
50°-60°	102.2	8.3
60°-70°	48.4	3.9
70°-80°	15.2	1.2
80°-90°	7.8	0.6
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°	607.6	49.1
0°-40°	878.5	71.0
0°-60°	1166.2	94.2
0°-90°	1237.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1237.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	927	938	941	948	956	86
15°	743	767	807	867	905	207
25°	516	548	619	718	798	235
35°	276	315	410	545	659	171
45°	56	94	209	370	501	53
55°	15	18	44	206	347	14
65°	5	6	20	76	175	5
75°	4	6	14	15	21	4
85°	4	8	10	8	7	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	962.2	962.2	962.2	962.2	962.2
2.5°	952.7	962.2	955.1	955.1	956.3
5°	926.7	938.5	940.9	948.0	956.3
7.5°	888.7	904.1	916.0	936.1	950.4
10°	843.7	862.7	884.0	917.2	938.5
12.5°	796.3	816.5	848.4	894.7	924.3
15°	743.0	766.7	807.0	867.4	905.3
17.5°	688.5	714.5	764.3	835.4	882.8
20°	632.8	660.0	718.1	797.5	856.7
22.5°	574.7	604.3	668.3	758.4	828.3
25°	515.5	547.5	618.6	718.1	797.5
27.5°	456.2	489.4	567.6	676.6	765.5
30°	397.0	431.3	514.3	634.0	731.1
32.5°	336.5	374.5	462.1	591.3	695.6
35°	276.1	315.2	410.0	545.1	658.9
37.5°	216.9	257.1	359.1	501.2	622.1
40°	161.2	201.4	309.3	457.4	584.2
42.5°	104.3	146.9	257.1	412.4	542.7
45°	55.7	93.6	208.6	369.7	501.2
47.5°	29.6	49.8	162.3	327.1	462.1
50°	23.7	27.3	118.5	284.4	420.7
52.5°	19.0	21.3	75.8	240.6	383.9
55°	15.4	17.8	43.8	206.2	347.2
57.5°	11.8	14.2	24.9	171.8	304.5
60°	9.5	10.7	20.1	137.5	261.9
62.5°	5.9	8.3	20.1	106.6	219.2
65°	4.7	5.9	20.1	75.8	175.4
67.5°	4.7	4.7	20.1	49.8	131.5
70°	3.6	3.6	19.0	32.0	90.1
72.5°	3.6	3.6	16.6	21.3	52.1
75°	3.6	5.9	14.2	15.4	21.3
77.5°	3.6	9.5	13.0	13.0	11.8
80°	3.6	9.5	11.8	10.7	10.7
82.5°	3.6	9.5	9.5	9.5	8.3
85°	3.6	8.3	9.5	8.3	7.1
87.5°	3.6	8.3	8.3	8.3	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)