

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: P1058162

Luminaire Tested: S122RDR-S865D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058162  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S865D930-X4F0-XX-UDD-SVL-S  
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

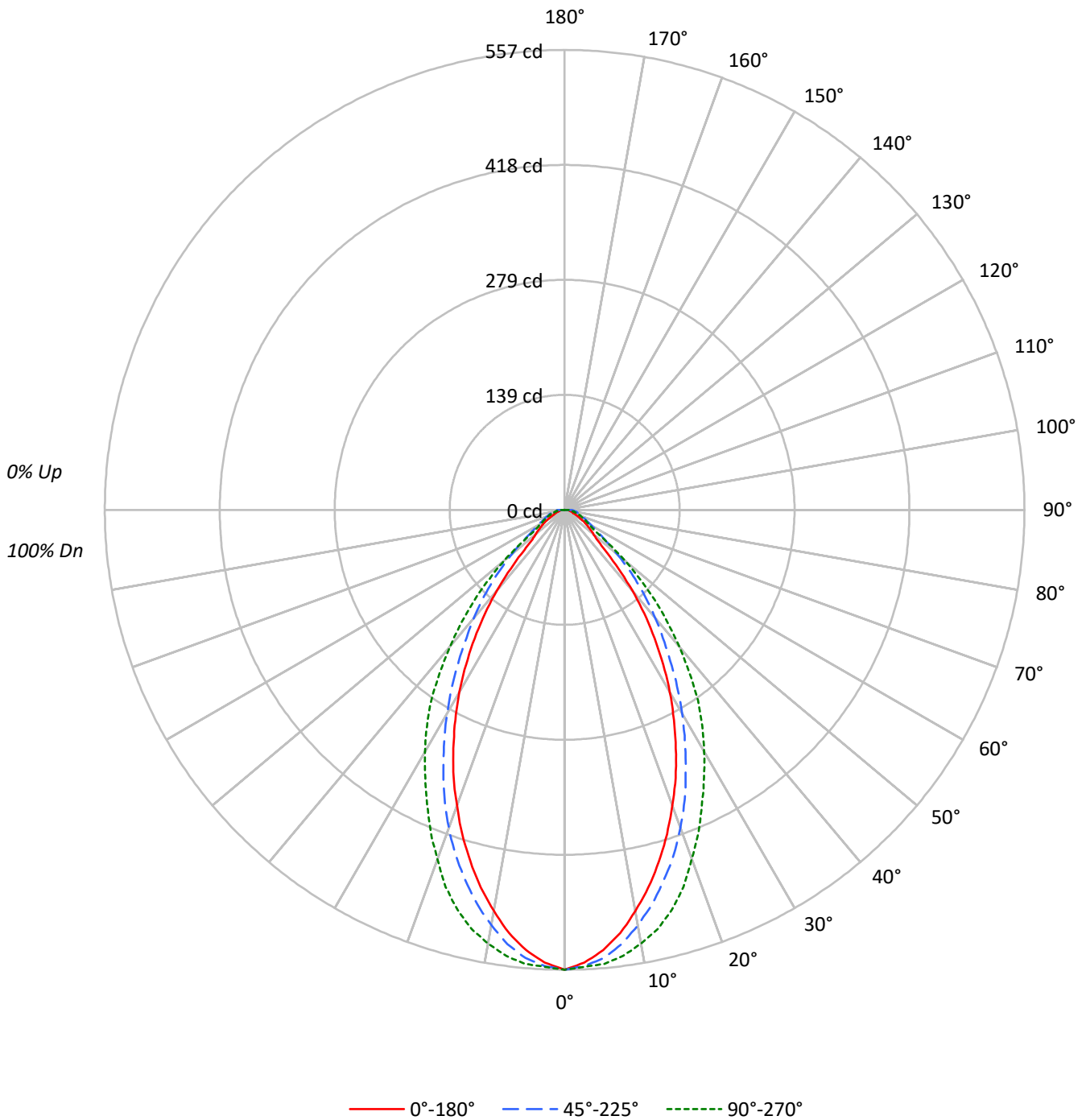
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 671.9 lumens  
Efficiency: N/A  
Efficacy: 19.2 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94  
Luminous Opening: Rectangular (W 0.15' 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89	
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80			80	
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65			65	
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			59	
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54	
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50			50	
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46			46	
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42			42	
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39			39	

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

	0°	45°	90°
0°	10278	10278	10278
5°	9917	10089	10221
10°	9243	9569	9994
15°	8423	8874	9580
20°	7487	8051	8838
25°	6487	7071	8014
30°	5431	6066	7204
35°	4282	5023	6343
40°	3069	4109	5198
45°	1798	3244	4021
50°	1298	2360	2713
55°	1091	1686	1422
60°	871	1365	1214
65°	716	1209	1122
70°	610	1165	1052
75°	585	1248	1027
80°	659	1530	1095
85°	1080	2392	1524

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4021 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	7.6
10°-20°	130.8	19.5
20°-30°	160.7	23.9
30°-40°	142.1	21.1
40°-50°	90.7	13.5
50°-60°	44.2	6.6
60°-70°	26.4	3.9
70°-80°	16.8	2.5
80°-90°	9.3	1.4
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°	342.5	51.0
0°-40°	484.6	72.1
0°-60°	619.5	92.2
0°-90°	671.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	671.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	557	557	557	557	557	
5°	535	547	545	547	552	50
15°	441	453	464	485	502	123
25°	319	330	347	369	394	146
35°	190	200	223	254	282	118
45°	69	88	124	140	154	58
55°	34	45	52	49	44	30
65°	16	31	28	26	26	16
75°	8	18	18	15	14	9
85°	5	10	11	10	7	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	557.0	557.0	557.0	557.0	557.0
2.5°	548.8	559.0	552.9	552.9	553.9
5°	535.4	546.7	544.7	546.7	551.8
7.5°	516.9	528.2	530.3	538.5	544.7
10°	493.3	504.6	510.7	524.1	533.4
12.5°	468.6	479.9	489.2	506.6	520.0
15°	440.9	453.2	464.5	485.1	501.5
17.5°	412.1	424.4	438.8	459.4	478.9
20°	381.3	392.6	410.0	429.6	450.1
22.5°	351.5	361.7	380.2	398.7	423.4
25°	318.6	329.9	347.3	368.9	393.6
27.5°	286.7	298.0	315.5	340.2	365.8
30°	254.9	265.1	284.7	310.4	338.1
32.5°	222.0	232.2	253.8	281.6	310.4
35°	190.1	200.4	223.0	253.8	281.6
37.5°	158.3	169.6	195.3	224.0	247.7
40°	127.4	140.8	170.6	195.3	215.8
42.5°	96.6	115.1	147.0	167.5	183.9
45°	68.9	88.4	124.3	139.8	154.1
47.5°	52.4	67.8	102.8	114.1	123.3
50°	45.2	55.5	82.2	90.4	94.5
52.5°	39.1	49.3	65.8	68.9	66.8
55°	33.9	45.2	52.4	49.3	44.2
57.5°	28.8	42.1	43.2	37.0	38.0
60°	23.6	38.0	37.0	31.9	32.9
62.5°	19.5	34.9	31.9	28.8	28.8
65°	16.4	30.8	27.7	25.7	25.7
67.5°	13.4	27.7	24.7	22.6	22.6
70°	11.3	24.7	21.6	19.5	19.5
72.5°	10.3	21.6	19.5	17.5	17.5
75°	8.2	18.5	17.5	15.4	14.4
77.5°	7.2	15.4	15.4	14.4	12.3
80°	6.2	13.4	14.4	12.3	10.3
82.5°	6.2	12.3	12.3	11.3	8.2
85°	5.1	10.3	11.3	10.3	7.2
87.5°	3.1	9.2	9.2	8.2	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)