

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: P1058190

Luminaire Tested: S122RDR-S865D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058190  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S865D950-X4F0-XX-UDD-SVL-W  
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

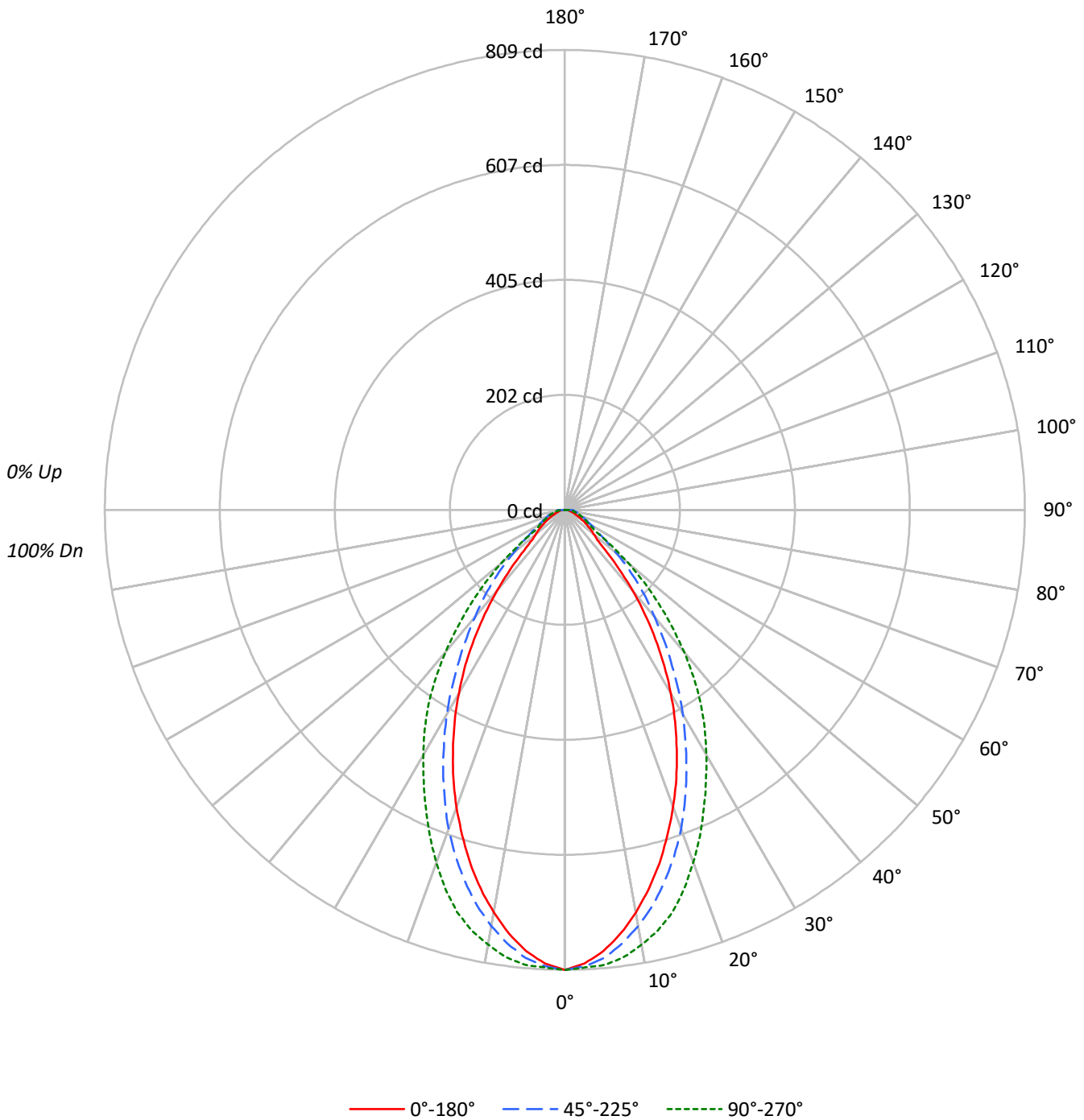
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 981.7 lumens  
Efficiency: N/A  
Efficacy: 28.0 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	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	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

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

	0°	45°	90°
0°	14935	14935	14935
5°	14435	14657	14881
10°	13476	13925	14557
15°	12291	12935	13991
20°	10934	11737	12966
25°	9476	10308	11778
30°	7943	8840	10609
35°	6258	7314	9400
40°	4461	5909	7850
45°	2636	4676	6088
50°	1898	3385	4142
55°	1586	2439	2088
60°	1288	1952	1775
65°	1052	1733	1629
70°	906	1689	1559
75°	856	1718	1540
80°	893	2040	1658
85°	1270	3303	2032

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6088 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.2	7.6
10°-20°	190.7	19.4
20°-30°	235.3	24.0
30°-40°	209.3	21.3
40°-50°	133.6	13.6
50°-60°	64.1	6.5
60°-70°	37.7	3.8
70°-80°	24.1	2.5
80°-90°	12.8	1.3
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°	500.2	51.0
0°-40°	709.5	72.3
0°-60°	907.2	92.4
0°-90°	981.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	981.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	809	809	809	809	809	
5°	779	794	791	796	803	72
15°	643	659	677	708	732	179
25°	465	484	506	542	578	213
35°	278	300	325	374	417	173
45°	101	131	179	208	233	85
55°	49	64	76	73	65	45
65°	24	43	40	36	37	24
75°	12	26	24	23	22	13
85°	6	14	16	13	10	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	809.4	809.4	809.4	809.4	809.4
2.5°	798.6	811.8	803.4	803.4	805.8
5°	779.3	793.8	791.3	796.2	803.4
7.5°	751.7	767.3	769.7	782.9	793.8
10°	719.2	736.0	743.2	762.5	776.9
12.5°	683.1	699.9	713.2	737.2	757.7
15°	643.4	659.1	677.1	708.4	732.4
17.5°	600.1	620.6	638.6	671.1	698.7
20°	556.8	576.1	597.7	629.0	660.3
22.5°	512.3	530.4	552.0	584.5	620.6
25°	465.4	483.5	506.3	542.4	578.5
27.5°	419.7	437.8	459.4	499.1	537.6
30°	372.8	390.9	414.9	455.8	497.9
32.5°	325.9	345.2	369.2	413.7	458.2
35°	277.8	299.5	324.7	374.0	417.3
37.5°	230.9	252.6	283.8	331.9	372.8
40°	185.2	210.5	245.3	288.6	325.9
42.5°	140.7	168.4	211.7	246.5	279.0
45°	101.0	131.1	179.2	208.1	233.3
47.5°	77.0	98.6	147.9	170.8	188.8
50°	66.1	79.4	117.9	134.7	144.3
52.5°	57.7	69.8	93.8	102.2	102.2
55°	49.3	63.7	75.8	73.4	64.9
57.5°	42.1	57.7	62.5	52.9	55.3
60°	34.9	52.9	52.9	46.9	48.1
62.5°	28.9	49.3	45.7	40.9	42.1
65°	24.1	43.3	39.7	36.1	37.3
67.5°	19.2	38.5	34.9	32.5	32.5
70°	16.8	34.9	31.3	28.9	28.9
72.5°	14.4	30.1	27.7	25.3	25.3
75°	12.0	26.5	24.1	22.9	21.6
77.5°	10.8	22.9	21.6	19.2	18.0
80°	8.4	19.2	19.2	18.0	15.6
82.5°	7.2	16.8	16.8	15.6	13.2
85°	6.0	14.4	15.6	13.2	9.6
87.5°	4.8	13.2	13.2	10.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)