

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: P1058166

Luminaire Tested: S122RDR-S865D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-55 )  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S865D930-X4F0-XX-UDD-WVL-W  
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

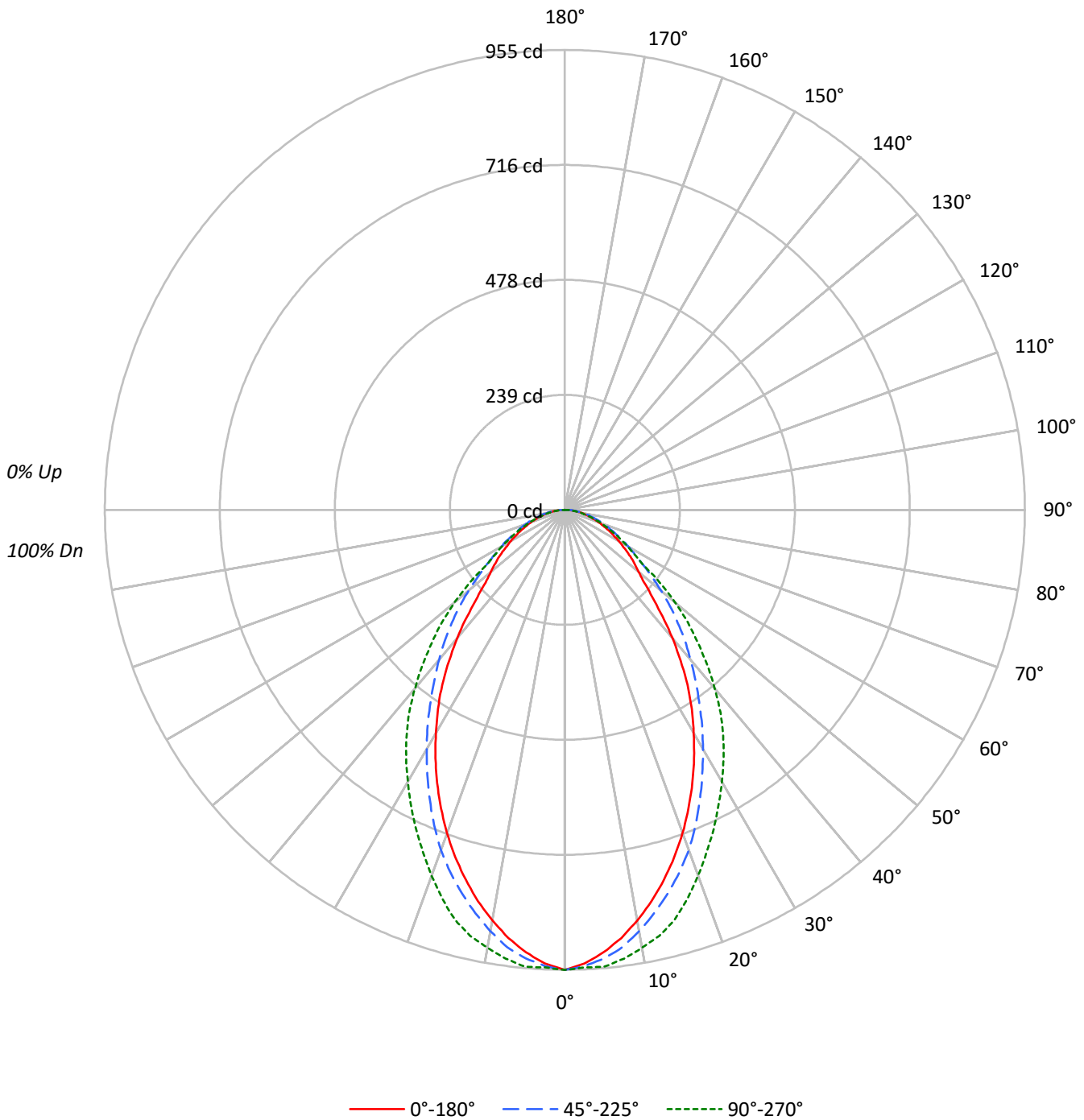
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1557.3 lumens  
Efficiency: N/A  
Efficacy: 44.5 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05  
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				
1	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68	67				
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59				
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52				
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				
10	59	47	40	35	58	46	40	35	46	39	35	45	39	35	44	38	34	33				

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

	0°	45°	90°
0°	17628	17628	17628
5°	17086	17313	17638
10°	16224	16648	17302
15°	15187	15756	16836
20°	14038	14765	15874
25°	12758	13509	14889
30°	11401	12213	13896
35°	9995	10943	12912
40°	8363	9772	11654
45°	6701	8659	10185
50°	5750	7461	8552
55°	5254	6344	6312
60°	4775	5610	5495
65°	4349	5021	4798
70°	3992	4602	4268
75°	3736	4249	3736
80°	3496	3932	3273
85°	3472	4129	2837

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10185 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	5.7
10°-20°	233.5	15.0
20°-30°	307.9	19.8
30°-40°	310.1	19.9
40°-50°	252.4	16.2
50°-60°	172.1	11.0
60°-70°	111.7	7.2
70°-80°	61.5	3.9
80°-90°	20.1	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°	629.6	40.4
0°-40°	939.6	60.3
0°-60°	1364.1	87.6
0°-90°	1557.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	922	940	935	943	952	86
15°	795	816	825	859	881	223
25°	627	647	664	693	731	287
35°	444	466	486	528	573	276
45°	257	289	332	360	390	202
55°	163	180	197	198	196	146
65°	100	118	115	109	110	99
75°	52	65	60	53	52	56
85°	16	22	20	15	13	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	955.3	955.3	955.3	955.3	955.3
2.5°	942.9	958.3	948.1	949.1	951.1
5°	922.4	939.8	934.7	942.9	952.2
7.5°	896.7	914.2	916.2	928.5	939.8
10°	865.9	885.4	888.5	907.0	923.4
12.5°	832.0	853.6	857.7	884.4	906.0
15°	795.0	815.6	824.8	858.7	881.3
17.5°	756.0	775.5	789.9	820.7	846.4
20°	714.9	733.4	751.9	779.6	808.4
22.5°	670.7	691.3	708.7	736.5	769.3
25°	626.6	647.1	663.5	693.3	731.3
27.5°	581.4	601.9	618.3	650.2	691.3
30°	535.1	556.7	573.2	609.1	652.2
32.5°	490.0	511.5	530.0	568.0	613.2
35°	443.7	466.3	485.8	528.0	573.2
37.5°	394.4	420.1	444.8	486.9	531.0
40°	347.2	375.9	405.7	444.8	483.8
42.5°	299.9	331.8	368.7	401.6	437.6
45°	256.8	288.6	331.8	360.5	390.3
47.5°	222.9	249.6	295.8	319.4	346.2
50°	200.3	218.8	259.9	278.4	297.9
52.5°	181.8	197.2	226.0	238.3	248.6
55°	163.3	179.8	197.2	198.2	196.2
57.5°	144.8	163.3	172.6	165.4	169.5
60°	129.4	147.9	152.0	144.8	148.9
62.5°	113.0	133.5	133.5	126.3	128.4
65°	99.6	118.1	115.0	108.9	109.9
67.5°	86.3	104.8	99.6	93.5	93.5
70°	74.0	91.4	85.3	79.1	79.1
72.5°	62.7	77.0	72.9	65.7	64.7
75°	52.4	64.7	59.6	53.4	52.4
77.5°	42.1	52.4	48.3	43.1	41.1
80°	32.9	42.1	37.0	32.9	30.8
82.5°	24.7	31.8	27.7	23.6	21.6
85°	16.4	21.6	19.5	15.4	13.4
87.5°	8.2	14.4	12.3	10.3	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)