

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: P1058013

Luminaire Tested: S122RDR-S485D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058013  
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-S485D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

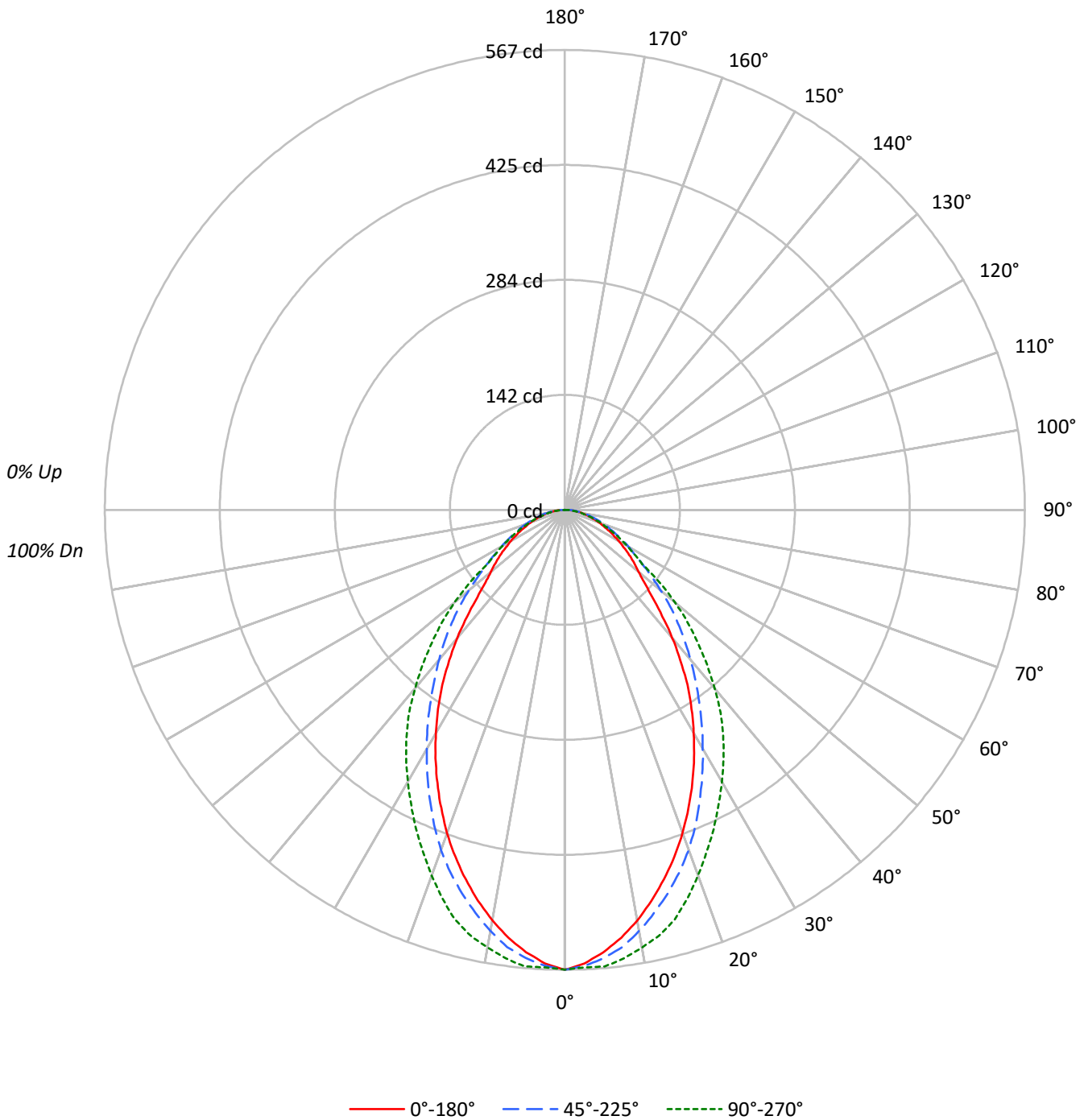
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 924.2 lumens  
Efficiency: N/A  
Efficacy: 47.2 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): 19.6  
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	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°	10461	10461	10461
5°	10139	10275	10467
10°	9629	9880	10268
15°	9013	9351	9991
20°	8332	8762	9420
25°	7570	8018	8836
30°	6767	7247	8248
35°	5931	6494	7661
40°	4962	5800	6916
45°	3977	5138	6044
50°	3413	4427	5075
55°	3117	3764	3745
60°	2834	3329	3262
65°	2580	2982	2847
70°	2368	2730	2530
75°	2217	2524	2217
80°	2072	2327	1945
85°	2075	2456	1673

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6044 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	5.7
10°-20°	138.5	15.0
20°-30°	182.7	19.8
30°-40°	184.0	19.9
40°-50°	149.8	16.2
50°-60°	102.1	11.0
60°-70°	66.3	7.2
70°-80°	36.5	3.9
80°-90°	11.9	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°	373.6	40.4
0°-40°	557.6	60.3
0°-60°	809.5	87.6
0°-90°	924.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	547	558	555	560	565	51
15°	472	484	490	510	523	132
25°	372	384	394	412	434	170
35°	263	277	288	313	340	164
45°	152	171	197	214	232	120
55°	97	107	117	118	116	87
65°	59	70	68	65	65	59
75°	31	38	35	32	31	33
85°	10	13	12	9	8	11
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	566.9	566.9	566.9	566.9	566.9
2.5°	559.6	568.7	562.6	563.2	564.5
5°	547.4	557.8	554.7	559.6	565.1
7.5°	532.2	542.5	543.7	551.0	557.8
10°	513.9	525.4	527.3	538.2	548.0
12.5°	493.7	506.5	509.0	524.8	537.6
15°	471.8	484.0	489.5	509.6	523.0
17.5°	448.6	460.2	468.8	487.0	502.3
20°	424.3	435.2	446.2	462.7	479.7
22.5°	398.0	410.2	420.6	437.1	456.6
25°	371.8	384.0	393.8	411.5	434.0
27.5°	345.0	357.2	367.0	385.9	410.2
30°	317.6	330.4	340.1	361.5	387.1
32.5°	290.8	303.6	314.5	337.1	363.9
35°	263.3	276.7	288.3	313.3	340.1
37.5°	234.1	249.3	263.9	288.9	315.1
40°	206.0	223.1	240.8	263.9	287.1
42.5°	178.0	196.9	218.8	238.3	259.7
45°	152.4	171.3	196.9	214.0	231.6
47.5°	132.3	148.1	175.6	189.6	205.4
50°	118.9	129.8	154.2	165.2	176.8
52.5°	107.9	117.0	134.1	141.4	147.5
55°	96.9	106.7	117.0	117.6	116.4
57.5°	85.9	96.9	102.4	98.1	100.6
60°	76.8	87.8	90.2	85.9	88.4
62.5°	67.1	79.2	79.2	75.0	76.2
65°	59.1	70.1	68.3	64.6	65.2
67.5°	51.2	62.2	59.1	55.5	55.5
70°	43.9	54.3	50.6	46.9	46.9
72.5°	37.2	45.7	43.3	39.0	38.4
75°	31.1	38.4	35.4	31.7	31.1
77.5°	25.0	31.1	28.6	25.6	24.4
80°	19.5	25.0	21.9	19.5	18.3
82.5°	14.6	18.9	16.5	14.0	12.8
85°	9.8	12.8	11.6	9.1	7.9
87.5°	4.9	8.5	7.3	6.1	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)