

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: P1058010

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

Issue Date: 8/7/2025

**Test Information**

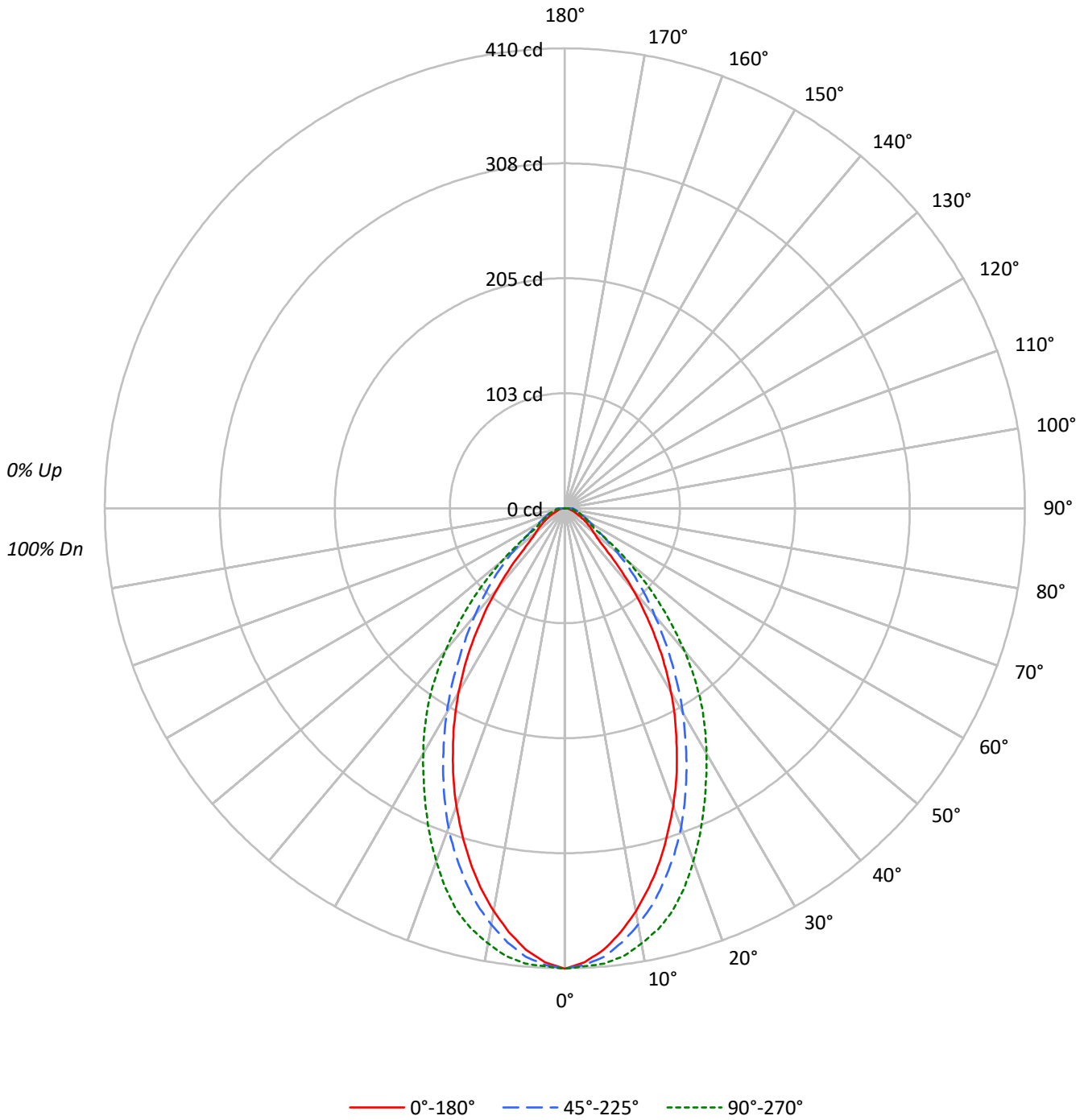
Test Method: LM-79-2019  
Report Number: P1058010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S485D935-X4F0-XX-UDD-SVL-W  
Description: DEFINE 2 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 497.9 lumens  
Efficiency: N/A  
Efficacy: 25.4 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): 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	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	102	99	97	98	96	94	94	93	91	89				89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	83	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	67	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	45	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°	7575	7575	7575
5°	7320	7433	7546
10°	6833	7062	7382
15°	6233	6560	7097
20°	5545	5952	6576
25°	4805	5228	5974
30°	4029	4483	5380
35°	3174	3710	4769
40°	2262	2997	3982
45°	1336	2372	3087
50°	962	1717	2101
55°	804	1235	1058
60°	653	989	900
65°	533	878	825
70°	459	858	788
75°	435	870	784
80°	457	1041	839
85°	635	1673	1037

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3087 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.6	7.6
10°-20°	96.7	19.4
20°-30°	119.3	24.0
30°-40°	106.1	21.3
40°-50°	67.7	13.6
50°-60°	32.5	6.5
60°-70°	19.1	3.8
70°-80°	12.2	2.4
80°-90°	6.5	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°	253.7	51.0
0°-40°	359.8	72.3
0°-60°	460.1	92.4
0°-90°	497.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	497.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	410	410	410	410	410	
5°	395	403	401	404	407	37
15°	326	334	343	359	372	91
25°	236	245	257	275	293	108
35°	141	152	165	190	212	88
45°	51	66	91	106	118	43
55°	25	32	38	37	33	23
65°	12	22	20	18	19	12
75°	6	13	12	12	11	7
85°	3	7	8	7	5	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	410.5	410.5	410.5	410.5	410.5
2.5°	405.0	411.7	407.4	407.4	408.7
5°	395.2	402.6	401.3	403.8	407.4
7.5°	381.2	389.1	390.4	397.1	402.6
10°	364.7	373.3	376.9	386.7	394.0
12.5°	346.4	355.0	361.7	373.9	384.3
15°	326.3	334.3	343.4	359.3	371.5
17.5°	304.4	314.7	323.9	340.4	354.4
20°	282.4	292.2	303.1	319.0	334.9
22.5°	259.8	269.0	280.0	296.4	314.7
25°	236.0	245.2	256.8	275.1	293.4
27.5°	212.9	222.0	233.0	253.1	272.6
30°	189.1	198.2	210.4	231.2	252.5
32.5°	165.3	175.1	187.3	209.8	232.4
35°	140.9	151.9	164.7	189.7	211.7
37.5°	117.1	128.1	143.9	168.3	189.1
40°	93.9	106.7	124.4	146.4	165.3
42.5°	71.4	85.4	107.4	125.0	141.5
45°	51.2	66.5	90.9	105.5	118.3
47.5°	39.0	50.0	75.0	86.6	95.8
50°	33.5	40.3	59.8	68.3	73.2
52.5°	29.3	35.4	47.6	51.8	51.8
55°	25.0	32.3	38.4	37.2	32.9
57.5°	21.3	29.3	31.7	26.8	28.1
60°	17.7	26.8	26.8	23.8	24.4
62.5°	14.6	25.0	23.2	20.7	21.3
65°	12.2	22.0	20.1	18.3	18.9
67.5°	9.8	19.5	17.7	16.5	16.5
70°	8.5	17.7	15.9	14.6	14.6
72.5°	7.3	15.2	14.0	12.8	12.8
75°	6.1	13.4	12.2	11.6	11.0
77.5°	5.5	11.6	11.0	9.8	9.1
80°	4.3	9.8	9.8	9.1	7.9
82.5°	3.7	8.5	8.5	7.9	6.7
85°	3.0	7.3	7.9	6.7	4.9
87.5°	2.4	6.7	6.7	5.5	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)