

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: P1058001

Luminaire Tested: S122RDR-S485D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058001
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-S485D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

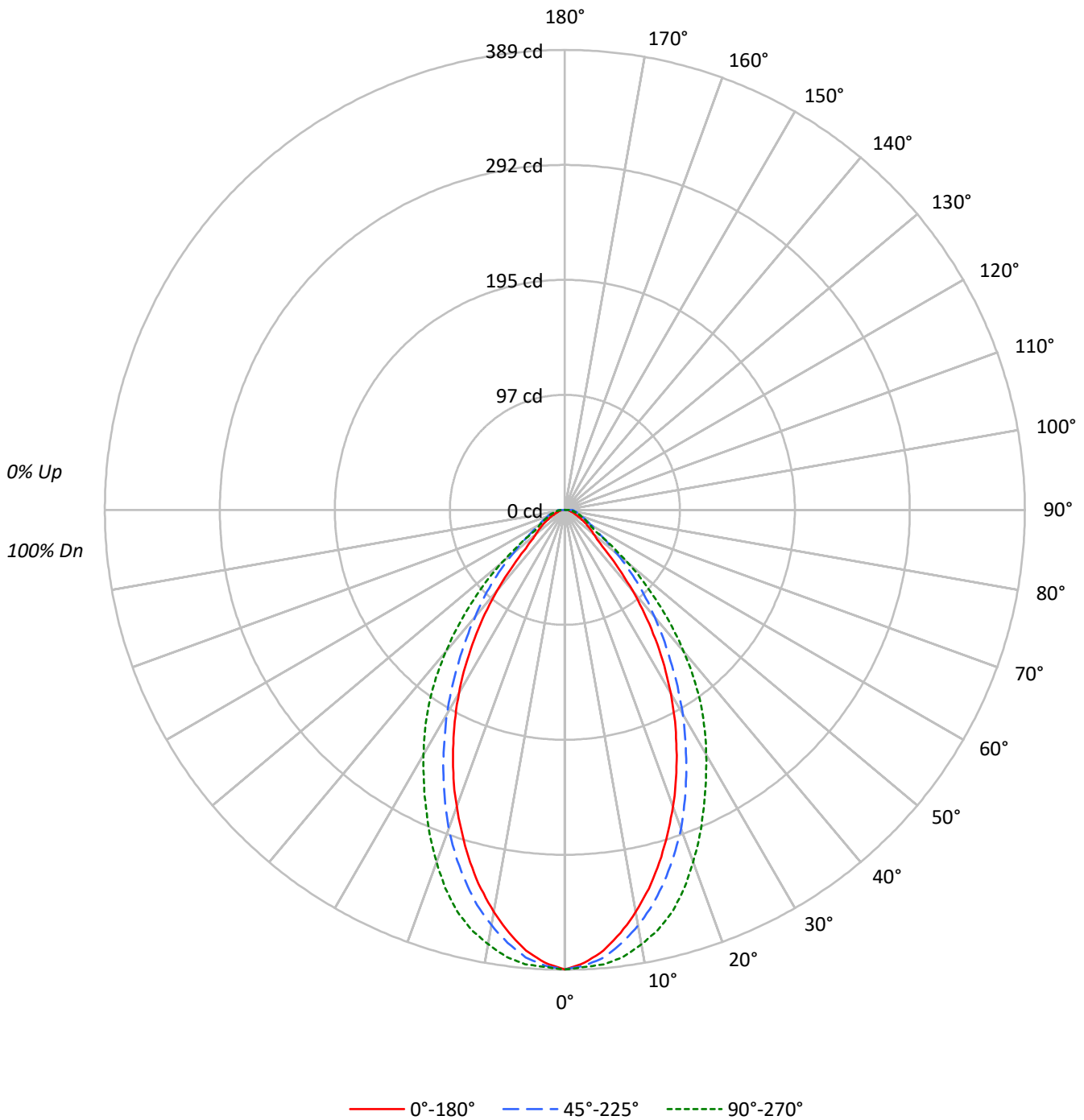
Lumens per Lamp: N/A
Luminaire Lumens: 471.5 lumens
Efficiency: N/A
Efficacy: 24.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1058001

CATALOG NUMBER: S122RDR-S485D930-X4F0-XX-UDD-SVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1058001

CATALOG NUMBER: S122RDR-S485D930-X4F0-XX-UDD-SVL-W

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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°	7172	7172	7172
5°	6933	7039	7146
10°	6472	6687	6991
15°	5903	6212	6719
20°	5251	5638	6227
25°	4550	4952	5656
30°	3814	4246	5095
35°	3005	3512	4514
40°	2141	2838	3770
45°	1266	2247	2923
50°	913	1625	1989
55°	762	1171	1004
60°	616	937	853
65°	506	834	782
70°	437	809	750
75°	414	827	741
80°	425	978	797
85°	614	1588	974

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2923 cd/sqm



TEST NUMBER: P1058001

CATALOG NUMBER: S122RDR-S485D930-X4F0-XX-UDD-SVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.7	7.6
10°-20°	91.6	19.4
20°-30°	113.0	24.0
30°-40°	100.5	21.3
40°-50°	64.2	13.6
50°-60°	30.8	6.5
60°-70°	18.1	3.8
70°-80°	11.5	2.4
80°-90°	6.2	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°	240.2	51.0
0°-40°	340.7	72.3
0°-60°	435.7	92.4
0°-90°	471.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	471.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	389	389	389	389	389	
5°	374	381	380	382	386	35
15°	309	316	325	340	352	86
25°	224	232	243	260	278	102
35°	133	144	156	180	200	83
45°	48	63	86	100	112	41
55°	24	31	36	35	31	21
65°	12	21	19	17	18	12
75°	6	13	12	11	10	6
85°	3	7	8	6	5	3
90°	0	0	0	0	0	



TEST NUMBER: P1058001

CATALOG NUMBER: S122RDR-S485D930-X4F0-XX-UDD-SVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	388.7	388.7	388.7	388.7	388.7
2.5°	383.5	389.9	385.8	385.8	387.0
5°	374.3	381.2	380.0	382.4	385.8
7.5°	361.0	368.5	369.6	376.0	381.2
10°	345.4	353.5	356.9	366.2	373.1
12.5°	328.1	336.1	342.5	354.1	363.9
15°	309.0	316.5	325.2	340.2	351.7
17.5°	288.2	298.0	306.7	322.3	335.6
20°	267.4	276.7	287.1	302.1	317.1
22.5°	246.0	254.7	265.1	280.7	298.0
25°	223.5	232.2	243.2	260.5	277.8
27.5°	201.6	210.2	220.6	239.7	258.2
30°	179.0	187.7	199.3	218.9	239.1
32.5°	156.5	165.8	177.3	198.7	220.1
35°	133.4	143.8	155.9	179.6	200.4
37.5°	110.9	121.3	136.3	159.4	179.0
40°	88.9	101.1	117.8	138.6	156.5
42.5°	67.6	80.9	101.7	118.4	134.0
45°	48.5	63.0	86.1	99.9	112.0
47.5°	37.0	47.4	71.0	82.0	90.7
50°	31.8	38.1	56.6	64.7	69.3
52.5°	27.7	33.5	45.1	49.1	49.1
55°	23.7	30.6	36.4	35.2	31.2
57.5°	20.2	27.7	30.0	25.4	26.6
60°	16.7	25.4	25.4	22.5	23.1
62.5°	13.9	23.7	21.9	19.6	20.2
65°	11.6	20.8	19.1	17.3	17.9
67.5°	9.2	18.5	16.7	15.6	15.6
70°	8.1	16.7	15.0	13.9	13.9
72.5°	6.9	14.4	13.3	12.1	12.1
75°	5.8	12.7	11.6	11.0	10.4
77.5°	5.2	11.0	10.4	9.2	8.7
80°	4.0	9.2	9.2	8.7	7.5
82.5°	3.5	8.1	8.1	7.5	6.4
85°	2.9	6.9	7.5	6.4	4.6
87.5°	2.3	6.4	6.4	5.2	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)