

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: P1057999

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-20)
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-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

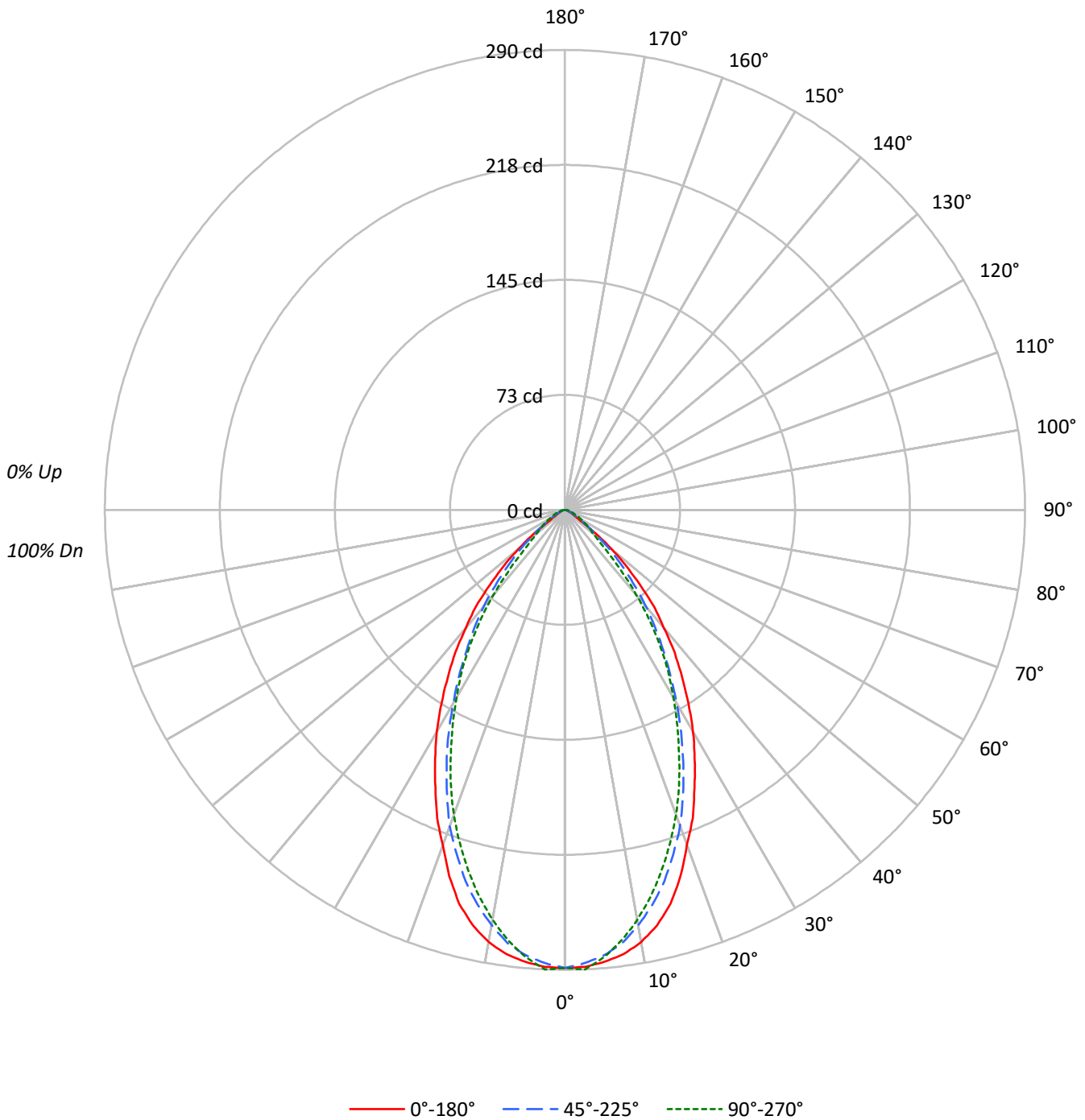
Lumens per Lamp: N/A
Luminaire Lumens: 310.8 lumens
Efficiency: N/A
Efficacy: 15.9 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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: P1057999

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

Luminous Intensity Polar Plot





TEST NUMBER: P1057999

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

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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92																												
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84																												
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76																												
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																												
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																												
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59																												
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54																												
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50																												
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47																												
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5331	5331	5331
5°	5299	5223	5246
10°	5186	4982	4917
15°	4913	4627	4495
20°	4416	4167	4020
25°	3934	3594	3463
30°	3441	2998	2913
35°	2897	2428	2352
40°	2334	1917	1696
45°	1746	1386	1007
50°	1094	893	663
55°	370	483	537
60°	214	299	424
65°	153	201	327
70°	124	156	248
75°	86	121	207
80°	64	128	181
85°	0	0	127

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1746 cd/sqm



TEST NUMBER: P1057999

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	8.6
10°-20°	68.2	21.9
20°-30°	82.1	26.4
30°-40°	70.1	22.6
40°-50°	41.1	13.2
50°-60°	14.9	4.8
60°-70°	5.3	1.7
70°-80°	2.1	0.7
80°-90°	0.4	0.1
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°	176.9	56.9
0°-40°	247.0	79.5
0°-60°	303.0	97.5
0°-90°	310.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	310.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	289	289	289	289	289	
5°	286	287	282	283	283	27
15°	257	253	242	238	235	71
25°	193	185	176	174	170	89
35°	129	119	108	107	104	80
45°	67	60	53	44	39	52
55°	12	16	15	16	17	14
65°	4	4	5	6	8	4
75°	1	2	2	2	3	1
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P1057999

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	288.9	288.9	288.9	288.9	288.9
2.5°	288.4	288.9	286.1	288.9	290.1
5°	286.1	286.6	282.0	283.2	283.2
7.5°	282.6	282.0	275.7	274.5	273.9
10°	276.8	275.1	265.9	264.1	262.4
12.5°	268.2	264.7	254.9	252.0	249.7
15°	257.2	253.2	242.2	237.6	235.3
17.5°	242.2	237.6	227.2	222.6	220.3
20°	224.9	220.3	212.2	207.0	204.7
22.5°	210.5	203.0	194.4	190.9	188.0
25°	193.2	185.1	176.5	173.6	170.1
27.5°	177.1	167.2	158.6	156.3	153.4
30°	161.5	151.1	140.7	140.7	136.7
32.5°	144.8	135.0	124.0	123.4	121.1
35°	128.6	118.8	107.8	106.7	104.4
37.5°	113.6	103.8	93.4	90.0	87.1
40°	96.9	88.2	79.6	73.8	70.4
42.5°	83.6	73.8	65.2	58.2	53.6
45°	66.9	60.0	53.1	44.4	38.6
47.5°	51.9	47.3	41.5	31.7	28.8
50°	38.1	35.8	31.1	23.6	23.1
52.5°	24.2	25.4	22.5	18.5	20.2
55°	11.5	16.1	15.0	15.6	16.7
57.5°	7.5	8.1	11.0	12.7	13.8
60°	5.8	5.8	8.1	10.4	11.5
62.5°	4.6	4.6	6.3	8.7	9.2
65°	3.5	4.0	4.6	6.3	7.5
67.5°	2.9	2.9	3.5	5.2	5.8
70°	2.3	2.3	2.9	4.0	4.6
72.5°	1.7	1.7	2.3	3.5	3.5
75°	1.2	1.7	1.7	2.3	2.9
77.5°	1.2	1.2	1.2	1.7	2.3
80°	0.6	0.6	1.2	1.2	1.7
82.5°	0.6	0.6	0.6	0.6	1.2
85°	0.0	0.0	0.0	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)