

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: P1058000

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)
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-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

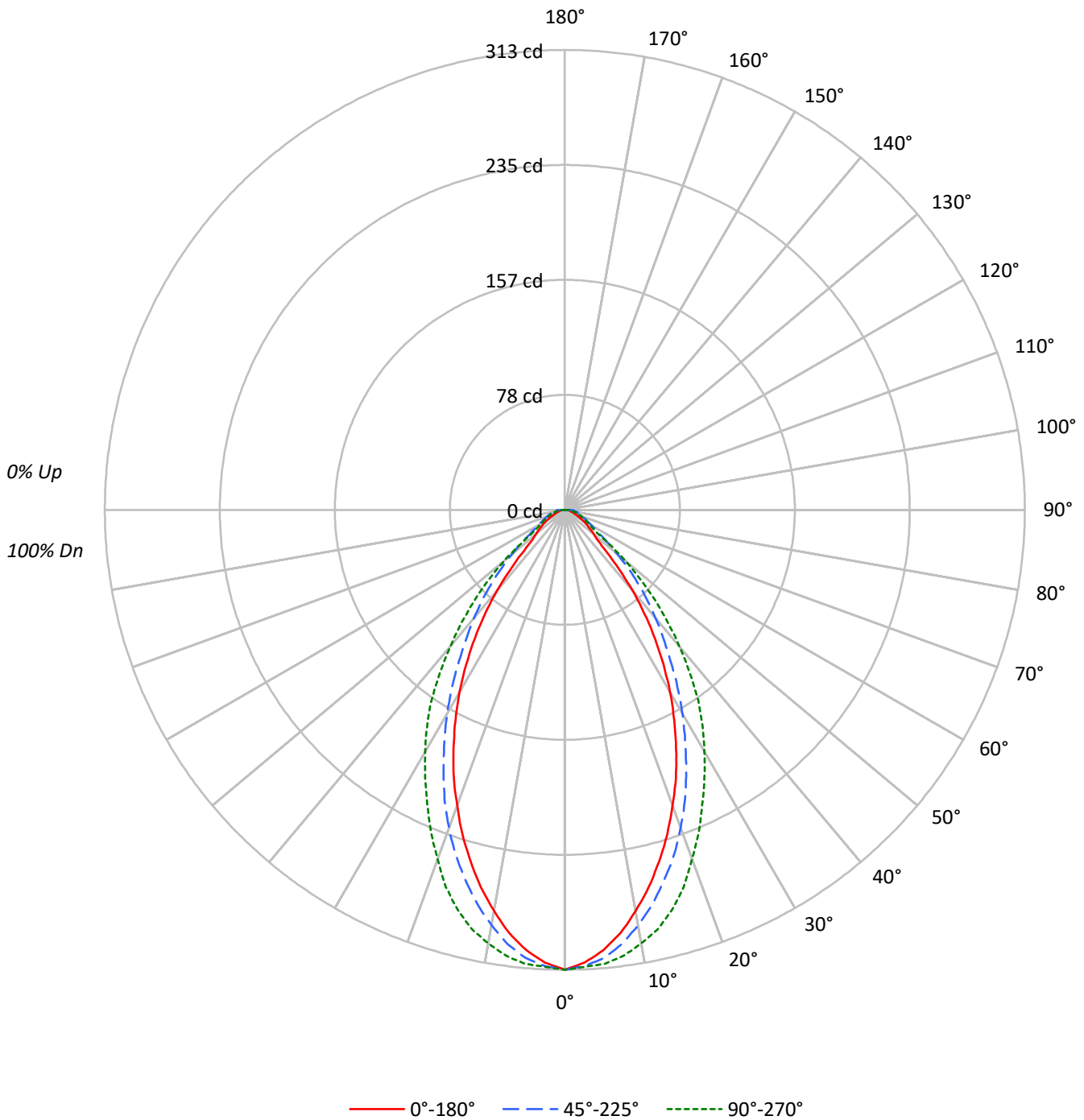
Lumens per Lamp: N/A
Luminaire Lumens: 377.6 lumens
Efficiency: N/A
Efficacy: 19.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	101	99	97	98	96	94	94	93	91	89				89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	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	66	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	44	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°	5776	5776	5776
5°	5574	5670	5744
10°	5194	5378	5616
15°	4732	4986	5383
20°	4206	4524	4966
25°	3644	3974	4504
30°	3051	3409	4048
35°	2406	2823	3564
40°	1725	2310	2922
45°	1010	1824	2260
50°	729	1326	1524
55°	614	949	798
60°	491	768	683
65°	402	681	629
70°	345	653	593
75°	328	699	577
80°	372	861	616
85°	614	1355	847

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2260 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	7.6
10°-20°	73.5	19.5
20°-30°	90.3	23.9
30°-40°	79.8	21.1
40°-50°	51.0	13.5
50°-60°	24.9	6.6
60°-70°	14.8	3.9
70°-80°	9.5	2.5
80°-90°	5.2	1.4
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°	192.5	51.0
0°-40°	272.3	72.1
0°-60°	348.1	92.2
0°-90°	377.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	377.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	313	313	313	313	313	
5°	301	307	306	307	310	28
15°	248	255	261	273	282	69
25°	179	185	195	207	221	82
35°	107	113	125	143	158	66
45°	39	50	70	78	87	33
55°	19	25	30	28	25	17
65°	9	17	16	14	14	9
75°	5	10	10	9	8	5
85°	3	6	6	6	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	313.0	313.0	313.0	313.0	313.0
2.5°	308.4	314.2	310.7	310.7	311.3
5°	300.9	307.2	306.1	307.2	310.1
7.5°	290.5	296.8	298.0	302.6	306.1
10°	277.2	283.5	287.0	294.5	299.7
12.5°	263.3	269.7	274.9	284.7	292.2
15°	247.7	254.7	261.0	272.6	281.8
17.5°	231.6	238.5	246.6	258.1	269.1
20°	214.2	220.6	230.4	241.4	252.9
22.5°	197.5	203.3	213.7	224.1	237.9
25°	179.0	185.4	195.2	207.3	221.2
27.5°	161.1	167.5	177.3	191.1	205.6
30°	143.2	149.0	160.0	174.4	190.0
32.5°	124.7	130.5	142.6	158.2	174.4
35°	106.8	112.6	125.3	142.6	158.2
37.5°	88.9	95.3	109.7	125.9	139.2
40°	71.6	79.1	95.9	109.7	121.3
42.5°	54.3	64.7	82.6	94.1	103.4
45°	38.7	49.7	69.9	78.5	86.6
47.5°	29.5	38.1	57.7	64.1	69.3
50°	25.4	31.2	46.2	50.8	53.1
52.5°	21.9	27.7	37.0	38.7	37.5
55°	19.1	25.4	29.5	27.7	24.8
57.5°	16.2	23.7	24.3	20.8	21.4
60°	13.3	21.4	20.8	17.9	18.5
62.5°	11.0	19.6	17.9	16.2	16.2
65°	9.2	17.3	15.6	14.4	14.4
67.5°	7.5	15.6	13.9	12.7	12.7
70°	6.4	13.9	12.1	11.0	11.0
72.5°	5.8	12.1	11.0	9.8	9.8
75°	4.6	10.4	9.8	8.7	8.1
77.5°	4.0	8.7	8.7	8.1	6.9
80°	3.5	7.5	8.1	6.9	5.8
82.5°	3.5	6.9	6.9	6.4	4.6
85°	2.9	5.8	6.4	5.8	4.0
87.5°	1.7	5.2	5.2	4.6	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)