

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: P1057834

Luminaire Tested: S122RDR-S1005D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-21)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S1005D930-X4F0-XX-UDD-BVL-B
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

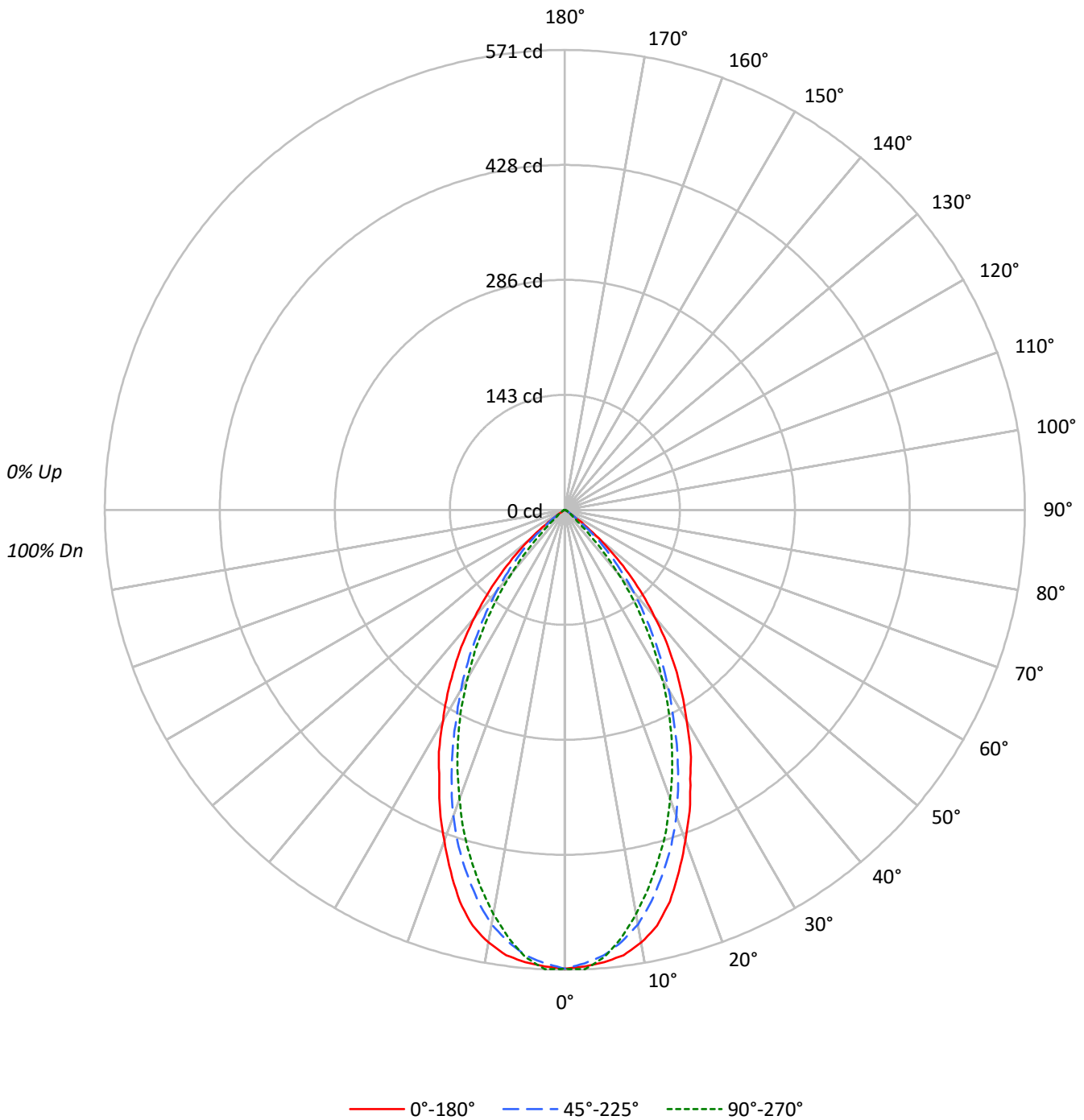
Lumens per Lamp: N/A
Luminaire Lumens: 535.7 lumens
Efficiency: N/A
Efficacy: 12.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.8 / 0.88
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	62	57	52	61	56	52	61	56	52	60	55	52	51
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10512	10512	10512
5°	10441	10286	10330
10°	10223	9796	9547
15°	9619	8950	8583
20°	8585	7947	7497
25°	7505	6719	6377
30°	6441	5493	5133
35°	5373	4287	3852
40°	4177	3163	2467
45°	2923	2106	1070
50°	1590	1105	379
55°	232	386	270
60°	44	89	177
65°	0	52	105
70°	0	0	65
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2923 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	9.8
10°-20°	131.9	24.6
20°-30°	153.8	28.7
30°-40°	123.2	23.0
40°-50°	61.2	11.4
50°-60°	12.1	2.3
60°-70°	1.1	0.2
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	338.0	63.1
0°-40°	461.3	86.1
0°-60°	534.6	99.8
0°-90°	535.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	535.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	564	564	555	556	558	53
15°	504	494	468	456	449	140
25°	369	350	330	323	313	170
35°	238	214	190	182	171	148
45°	112	99	81	54	41	86
55°	7	14	12	7	8	15
65°	0	0	1	1	2	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	569.7	569.7	569.7	569.7	569.7
2.5°	567.3	569.7	563.7	569.7	570.9
5°	563.7	563.7	555.3	556.5	557.7
7.5°	557.7	555.3	540.8	538.4	536.0
10°	545.6	540.8	522.8	513.1	509.5
12.5°	528.8	521.5	497.5	486.6	480.6
15°	503.5	493.8	468.5	456.5	449.3
17.5°	471.0	462.5	438.4	425.2	418.0
20°	437.2	425.2	404.7	391.5	381.8
22.5°	404.7	389.1	367.4	357.7	348.1
25°	368.6	350.5	330.0	322.8	313.2
27.5°	338.5	315.6	291.5	286.7	278.2
30°	302.3	280.6	257.8	250.5	240.9
32.5°	271.0	246.9	224.0	215.6	207.2
35°	238.5	214.4	190.3	181.9	171.0
37.5°	207.2	184.3	160.2	146.9	137.3
40°	173.4	154.2	131.3	114.4	102.4
42.5°	143.3	126.5	104.8	83.1	71.1
45°	112.0	98.8	80.7	54.2	41.0
47.5°	83.1	73.5	59.0	31.3	21.7
50°	55.4	51.8	38.5	15.7	13.2
52.5°	30.1	32.5	22.9	9.6	10.8
55°	7.2	14.5	12.0	7.2	8.4
57.5°	1.2	2.4	6.0	6.0	6.0
60°	1.2	1.2	2.4	3.6	4.8
62.5°	1.2	0.0	1.2	2.4	3.6
65°	0.0	0.0	1.2	1.2	2.4
67.5°	0.0	0.0	0.0	1.2	1.2
70°	0.0	0.0	0.0	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	1.2
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)