

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: P1057837

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057837
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-S1005D930-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

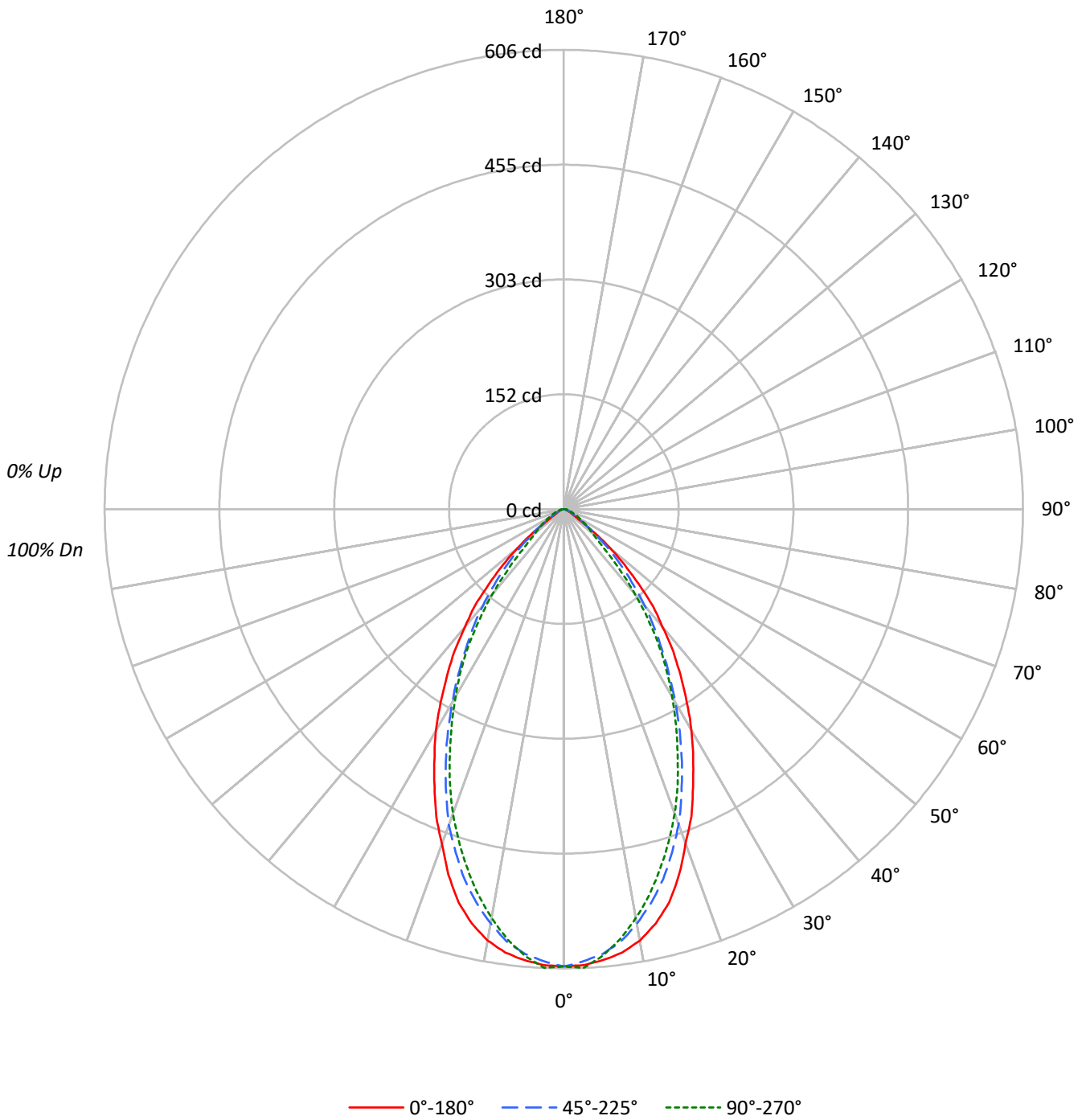
Lumens per Lamp: N/A
Luminaire Lumens: 648.9 lumens
Efficiency: N/A
Efficacy: 15.5 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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										
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	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100														
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92						92														
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84						84														
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76						76														
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70						70														
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64						64														
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59						59														
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54						54														
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50						50														
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47						47														
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44						44														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11134	11134	11134
5°	11066	10910	10954
10°	10832	10405	10268
15°	10262	9664	9387
20°	9223	8703	8397
25°	8215	7505	7234
30°	7185	6262	6083
35°	6051	5073	4911
40°	4873	4003	3539
45°	3646	2891	2106
50°	2282	1866	1384
55°	775	1007	1123
60°	443	624	889
65°	314	419	685
70°	259	324	518
75°	171	257	428
80°	128	255	383
85°	0	0	254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3646 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	8.6
10°-20°	142.4	21.9
20°-30°	171.4	26.4
30°-40°	146.5	22.6
40°-50°	85.8	13.2
50°-60°	31.1	4.8
60°-70°	11.0	1.7
70°-80°	4.4	0.7
80°-90°	0.8	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°	369.4	56.9
0°-40°	515.9	79.5
0°-60°	632.8	97.5
0°-90°	648.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	648.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	597	599	589	591	591	56
15°	537	529	506	496	491	149
25°	404	387	369	362	355	185
35°	269	248	225	223	218	168
45°	140	125	111	93	81	108
55°	24	34	31	32	35	30
65°	7	8	10	13	16	8
75°	2	4	4	5	6	3
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.4	603.4	603.4	603.4	603.4
2.5°	602.2	603.4	597.4	603.4	605.8
5°	597.4	598.6	589.0	591.4	591.4
7.5°	590.2	589.0	575.7	573.3	572.1
10°	578.1	574.5	555.3	551.6	548.0
12.5°	560.1	552.8	532.4	526.3	521.5
15°	537.2	528.8	505.9	496.2	491.4
17.5°	505.9	496.2	474.6	464.9	460.1
20°	469.7	460.1	443.2	432.4	427.6
22.5°	439.6	424.0	405.9	398.7	392.7
25°	403.5	386.6	368.6	362.5	355.3
27.5°	369.8	349.3	331.2	326.4	320.4
30°	337.2	315.6	293.9	293.9	285.5
32.5°	302.3	281.8	259.0	257.8	252.9
35°	268.6	248.1	225.2	222.8	218.0
37.5°	237.3	216.8	195.1	187.9	181.9
40°	202.3	184.3	166.2	154.2	146.9
42.5°	174.6	154.2	136.1	121.6	112.0
45°	139.7	125.3	110.8	92.7	80.7
47.5°	108.4	98.8	86.7	66.2	60.2
50°	79.5	74.7	65.0	49.4	48.2
52.5°	50.6	53.0	47.0	38.5	42.2
55°	24.1	33.7	31.3	32.5	34.9
57.5°	15.7	16.9	22.9	26.5	28.9
60°	12.0	12.0	16.9	21.7	24.1
62.5°	9.6	9.6	13.2	18.1	19.3
65°	7.2	8.4	9.6	13.2	15.7
67.5°	6.0	6.0	7.2	10.8	12.0
70°	4.8	4.8	6.0	8.4	9.6
72.5°	3.6	3.6	4.8	7.2	7.2
75°	2.4	3.6	3.6	4.8	6.0
77.5°	2.4	2.4	2.4	3.6	4.8
80°	1.2	1.2	2.4	2.4	3.6
82.5°	1.2	1.2	1.2	1.2	2.4
85°	0.0	0.0	0.0	1.2	1.2
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)