

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: P1057866

Luminaire Tested: S122RDR-S1005D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057866
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-S1005D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

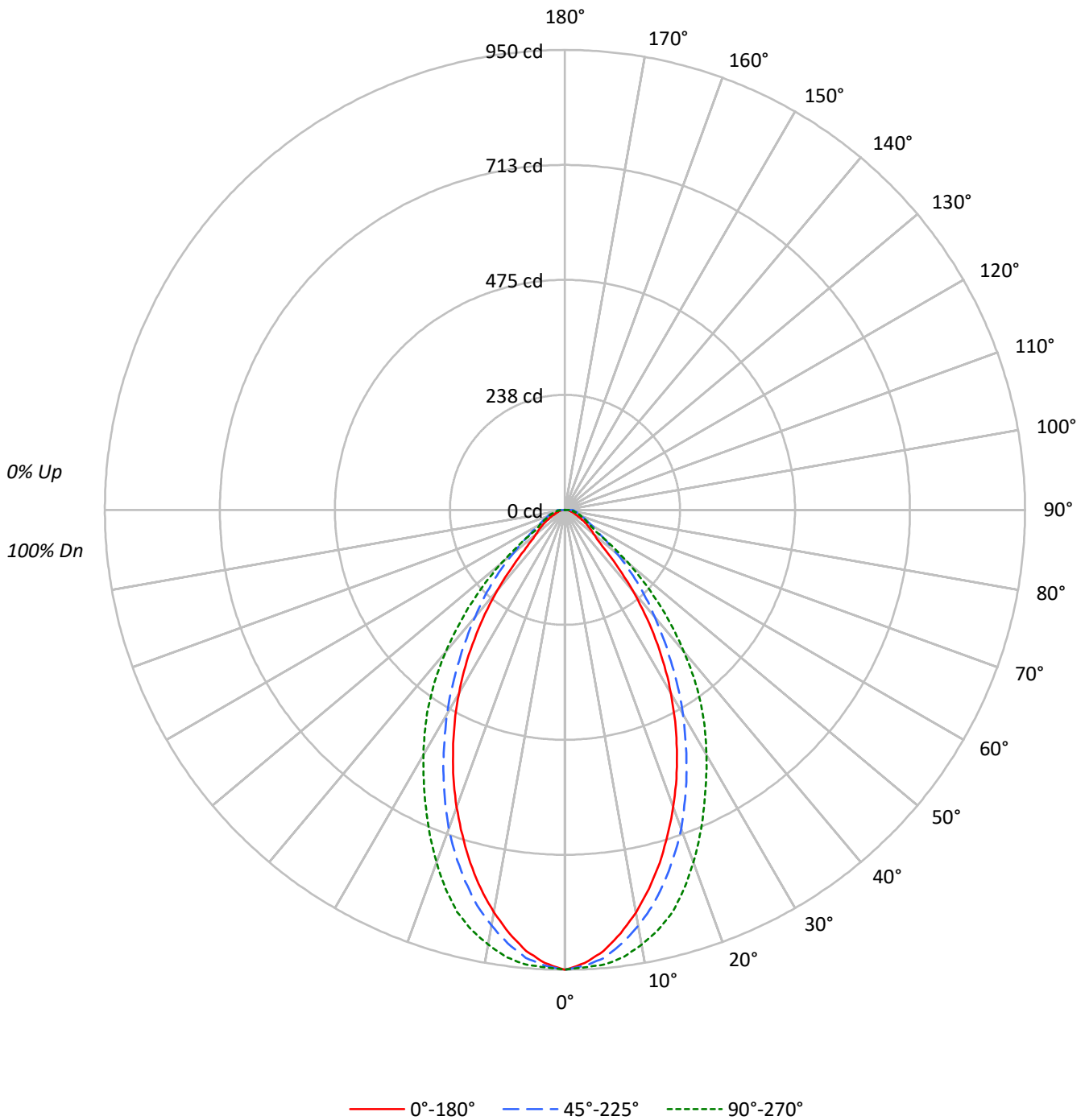
Lumens per Lamp: N/A
Luminaire Lumens: 1152.2 lumens
Efficiency: N/A
Efficacy: 27.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	102	99	97	98	96	94	94	93	91	89				89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	83	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	67	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	45	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°	17528	17528	17528
5°	16941	17202	17463
10°	15814	16344	17085
15°	14425	15180	16421
20°	12833	13775	15216
25°	11121	12098	13822
30°	9322	10374	12450
35°	7344	8585	11033
40°	5237	6935	9214
45°	3095	5488	7145
50°	2228	3970	4863
55°	1863	2860	2451
60°	1509	2292	2085
65°	1231	2035	1912
70°	1068	1980	1829
75°	1005	2011	1811
80°	1052	2402	1945
85°	1503	3874	2392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7145 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	7.6
10°-20°	223.8	19.4
20°-30°	276.1	24.0
30°-40°	245.6	21.3
40°-50°	156.8	13.6
50°-60°	75.3	6.5
60°-70°	44.2	3.8
70°-80°	28.2	2.4
80°-90°	15.0	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°	587.1	51.0
0°-40°	832.7	72.3
0°-60°	1064.7	92.4
0°-90°	1152.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1152.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	915	932	929	934	943	85
15°	755	774	795	831	860	211
25°	546	567	594	637	679	250
35°	326	351	381	439	490	203
45°	119	154	210	244	274	99
55°	58	75	89	86	76	52
65°	28	51	47	42	44	28
75°	14	31	28	27	25	15
85°	7	17	18	16	11	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.9	949.9	949.9	949.9	949.9
2.5°	937.2	952.7	942.8	942.8	945.7
5°	914.6	931.5	928.7	934.4	942.8
7.5°	882.1	900.5	903.3	918.8	931.5
10°	844.0	863.8	872.3	894.8	911.8
12.5°	801.7	821.5	837.0	865.2	889.2
15°	755.1	773.5	794.6	831.3	859.6
17.5°	704.3	728.3	749.5	787.6	820.0
20°	653.5	676.1	701.5	738.2	774.9
22.5°	601.3	622.4	647.8	686.0	728.3
25°	546.2	567.4	594.2	636.6	678.9
27.5°	492.6	513.8	539.2	585.7	630.9
30°	437.5	458.7	486.9	534.9	584.3
32.5°	382.5	405.1	433.3	485.5	537.8
35°	326.0	351.4	381.1	439.0	489.8
37.5°	271.0	296.4	333.1	389.6	437.5
40°	217.4	247.0	287.9	338.7	382.5
42.5°	165.1	197.6	248.4	289.3	327.5
45°	118.6	153.8	210.3	244.2	273.8
47.5°	90.3	115.7	173.6	200.4	221.6
50°	77.6	93.2	138.3	158.1	169.4
52.5°	67.7	81.9	110.1	120.0	120.0
55°	57.9	74.8	88.9	86.1	76.2
57.5°	49.4	67.7	73.4	62.1	64.9
60°	40.9	62.1	62.1	55.0	56.5
62.5°	33.9	57.9	53.6	48.0	49.4
65°	28.2	50.8	46.6	42.3	43.8
67.5°	22.6	45.2	40.9	38.1	38.1
70°	19.8	40.9	36.7	33.9	33.9
72.5°	16.9	35.3	32.5	29.6	29.6
75°	14.1	31.1	28.2	26.8	25.4
77.5°	12.7	26.8	25.4	22.6	21.2
80°	9.9	22.6	22.6	21.2	18.3
82.5°	8.5	19.8	19.8	18.3	15.5
85°	7.1	16.9	18.3	15.5	11.3
87.5°	5.6	15.5	15.5	12.7	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)