

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: P1057830

Luminaire Tested: S122RDR-S1005D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057830
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-S1005D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

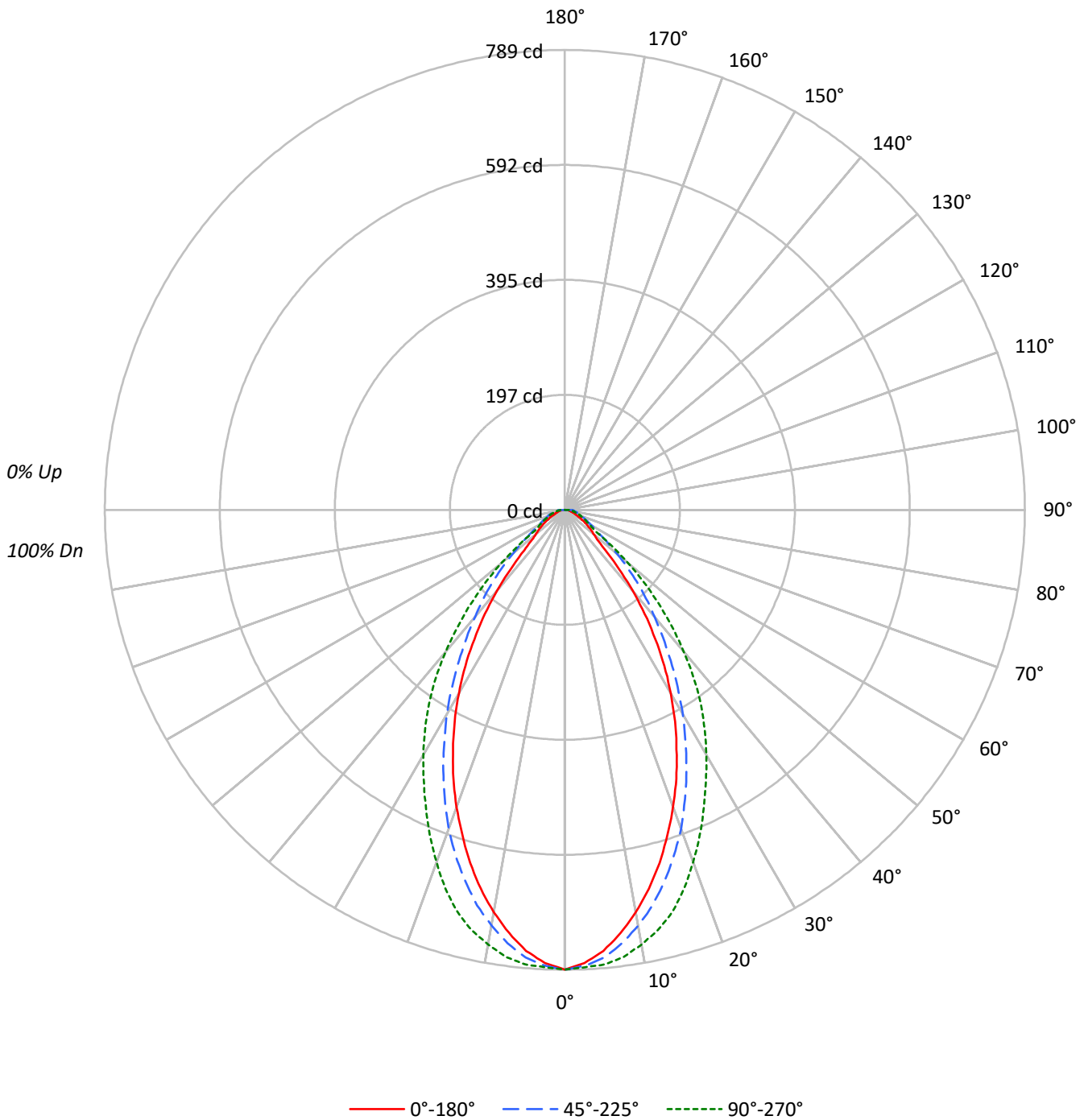
Lumens per Lamp: N/A
Luminaire Lumens: 956.8 lumens
Efficiency: N/A
Efficacy: 22.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14555	14555	14555
5°	14068	14285	14502
10°	13133	13571	14186
15°	11978	12604	13636
20°	10655	11438	12634
25°	9235	10046	11477
30°	7741	8614	10338
35°	6098	7127	9161
40°	4348	5759	7650
45°	2570	4556	5934
50°	1852	3298	4036
55°	1547	2374	2036
60°	1255	1904	1731
65°	1022	1690	1585
70°	885	1646	1516
75°	834	1668	1504
80°	871	1998	1615
85°	1249	3218	1990

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5934 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	7.6
10°-20°	185.9	19.4
20°-30°	229.3	24.0
30°-40°	203.9	21.3
40°-50°	130.2	13.6
50°-60°	62.5	6.5
60°-70°	36.7	3.8
70°-80°	23.4	2.5
80°-90°	12.5	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°	487.5	51.0
0°-40°	691.4	72.3
0°-60°	884.1	92.4
0°-90°	956.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	760	774	771	776	783	71
15°	627	642	660	690	714	175
25°	454	471	493	529	564	208
35°	271	292	316	364	407	168
45°	98	128	175	203	227	83
55°	48	62	74	72	63	43
65°	23	42	39	35	36	24
75°	12	26	23	22	21	13
85°	6	14	15	13	9	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.8	788.8	788.8	788.8	788.8
2.5°	778.2	791.1	782.9	782.9	785.3
5°	759.5	773.5	771.2	775.9	782.9
7.5°	732.5	747.8	750.1	763.0	773.5
10°	700.9	717.3	724.3	743.1	757.1
12.5°	665.7	682.1	695.0	718.5	738.4
15°	627.0	642.3	659.8	690.3	713.8
17.5°	584.8	604.8	622.3	654.0	680.9
20°	542.6	561.4	582.5	613.0	643.4
22.5°	499.3	516.9	538.0	569.6	604.8
25°	453.6	471.2	493.4	528.6	563.7
27.5°	409.0	426.6	447.7	486.4	523.9
30°	363.3	380.9	404.3	444.2	485.2
32.5°	317.6	336.4	359.8	403.2	446.5
35°	270.7	291.8	316.4	364.5	406.7
37.5°	225.0	246.1	276.6	323.5	363.3
40°	180.5	205.1	239.1	281.3	317.6
42.5°	137.1	164.1	206.3	240.3	271.9
45°	98.5	127.8	174.6	202.8	227.4
47.5°	75.0	96.1	144.2	166.4	184.0
50°	64.5	77.4	114.9	131.3	140.6
52.5°	56.3	68.0	91.4	99.6	99.6
55°	48.1	62.1	73.8	71.5	63.3
57.5°	41.0	56.3	60.9	51.6	53.9
60°	34.0	51.6	51.6	45.7	46.9
62.5°	28.1	48.1	44.5	39.8	41.0
65°	23.4	42.2	38.7	35.2	36.3
67.5°	18.8	37.5	34.0	31.6	31.6
70°	16.4	34.0	30.5	28.1	28.1
72.5°	14.1	29.3	27.0	24.6	24.6
75°	11.7	25.8	23.4	22.3	21.1
77.5°	10.5	22.3	21.1	18.8	17.6
80°	8.2	18.8	18.8	17.6	15.2
82.5°	7.0	16.4	16.4	15.2	12.9
85°	5.9	14.1	15.2	12.9	9.4
87.5°	4.7	12.9	12.9	10.5	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)