

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: P1058172

Luminaire Tested: S122RDR-S865D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058172
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-S865D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

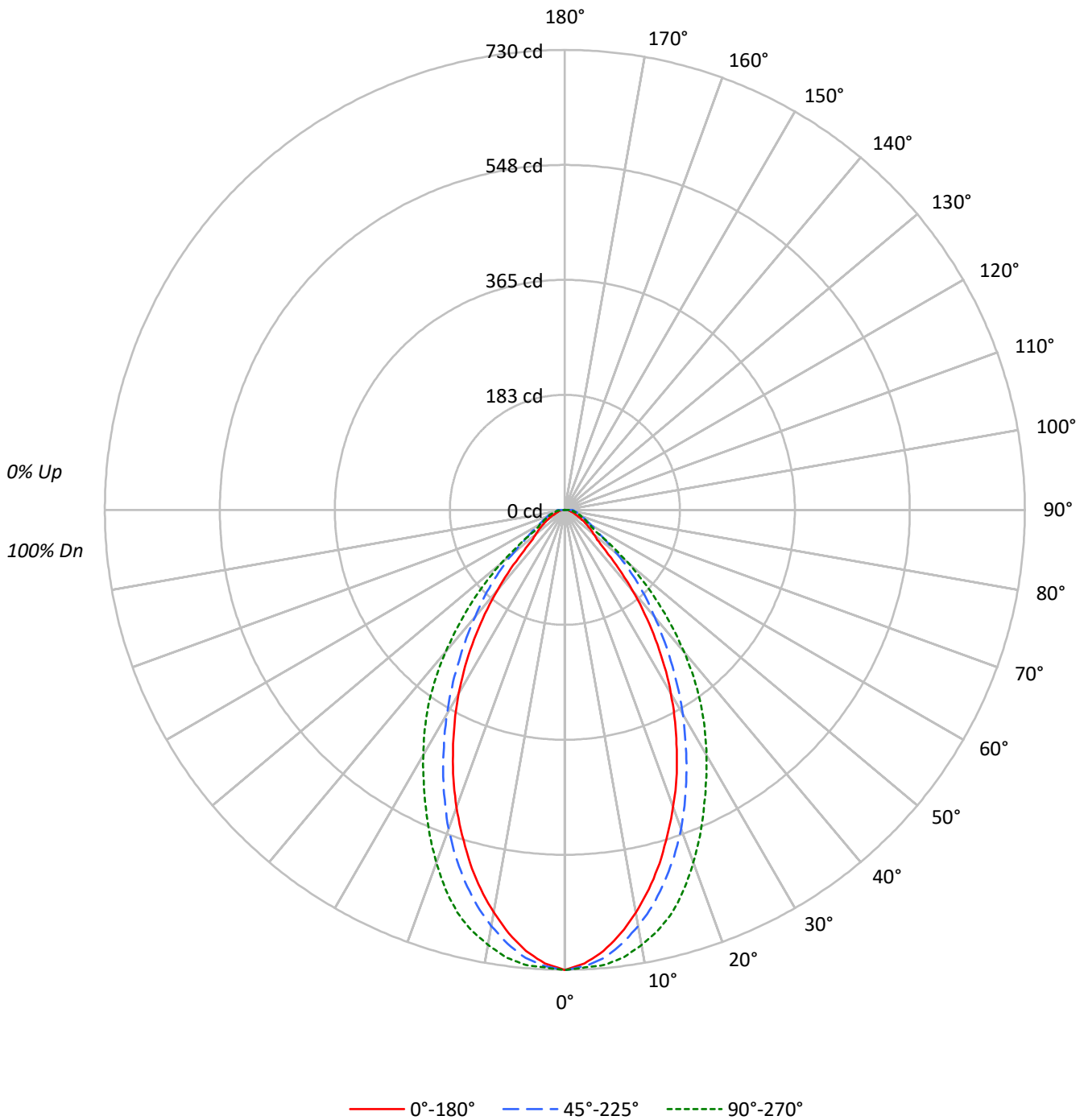
Lumens per Lamp: N/A
Luminaire Lumens: 886.0 lumens
Efficiency: N/A
Efficacy: 25.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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

TEST NUMBER: P1058172

CATALOG NUMBER: S122RDR-S865D935-X4F0-XX-UDD-SVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1058172

CATALOG NUMBER: S122RDR-S865D935-X4F0-XX-UDD-SVL-W

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				
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°	13480	13480	13480
5°	13027	13229	13431
10°	12162	12569	13138
15°	11093	11674	12627
20°	9867	10592	11702
25°	8553	9305	10630
30°	7170	7979	9575
35°	5647	6602	8483
40°	4028	5333	7084
45°	2380	4220	5496
50°	1714	3054	3738
55°	1432	2200	1885
60°	1163	1764	1602
65°	947	1563	1467
70°	820	1521	1403
75°	777	1547	1390
80°	808	1849	1498
85°	1143	2985	1842

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5496 cd/sqm



TEST NUMBER: P1058172

CATALOG NUMBER: S122RDR-S865D935-X4F0-XX-UDD-SVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	7.6
10°-20°	172.1	19.4
20°-30°	212.3	24.0
30°-40°	188.9	21.3
40°-50°	120.6	13.6
50°-60°	57.9	6.5
60°-70°	34.0	3.8
70°-80°	21.7	2.4
80°-90°	11.6	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°	451.5	51.0
0°-40°	640.4	72.3
0°-60°	818.8	92.4
0°-90°	886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	730	730	730	730	730	
5°	703	716	714	718	725	65
15°	581	595	611	639	661	162
25°	420	436	457	490	522	192
35°	251	270	293	338	377	156
45°	91	118	162	188	211	76
55°	44	58	68	66	59	40
65°	22	39	36	33	34	22
75°	11	24	22	21	20	12
85°	5	13	14	12	9	5
90°	0	0	0	0	0	



TEST NUMBER: P1058172

CATALOG NUMBER: S122RDR-S865D935-X4F0-XX-UDD-SVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	730.5	730.5	730.5	730.5	730.5
2.5°	720.7	732.7	725.1	725.1	727.2
5°	703.3	716.4	714.2	718.5	725.1
7.5°	678.4	692.5	694.7	706.6	716.4
10°	649.1	664.3	670.8	688.1	701.2
12.5°	616.5	631.7	643.6	665.4	683.8
15°	580.7	594.8	611.1	639.3	661.0
17.5°	541.6	560.1	576.4	605.7	630.6
20°	502.5	519.9	539.4	567.7	595.9
22.5°	462.4	478.7	498.2	527.5	560.1
25°	420.1	436.3	457.0	489.5	522.1
27.5°	378.8	395.1	414.6	450.4	485.2
30°	336.5	352.8	374.5	411.4	449.4
32.5°	294.1	311.5	333.2	373.4	413.5
35°	250.7	270.3	293.1	337.6	376.6
37.5°	208.4	227.9	256.2	299.6	336.5
40°	167.2	189.9	221.4	260.5	294.1
42.5°	127.0	152.0	191.0	222.5	251.8
45°	91.2	118.3	161.7	187.8	210.6
47.5°	69.5	89.0	133.5	154.1	170.4
50°	59.7	71.6	106.4	121.6	130.2
52.5°	52.1	63.0	84.7	92.3	92.3
55°	44.5	57.5	68.4	66.2	58.6
57.5°	38.0	52.1	56.4	47.8	49.9
60°	31.5	47.8	47.8	42.3	43.4
62.5°	26.0	44.5	41.2	36.9	38.0
65°	21.7	39.1	35.8	32.6	33.6
67.5°	17.4	34.7	31.5	29.3	29.3
70°	15.2	31.5	28.2	26.0	26.0
72.5°	13.0	27.1	25.0	22.8	22.8
75°	10.9	23.9	21.7	20.6	19.5
77.5°	9.8	20.6	19.5	17.4	16.3
80°	7.6	17.4	17.4	16.3	14.1
82.5°	6.5	15.2	15.2	14.1	11.9
85°	5.4	13.0	14.1	11.9	8.7
87.5°	4.3	11.9	11.9	9.8	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)