

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: P1058153

Luminaire Tested: S122RDR-S865D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1058153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-S865D927-X4F0-XX-UDD-SVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

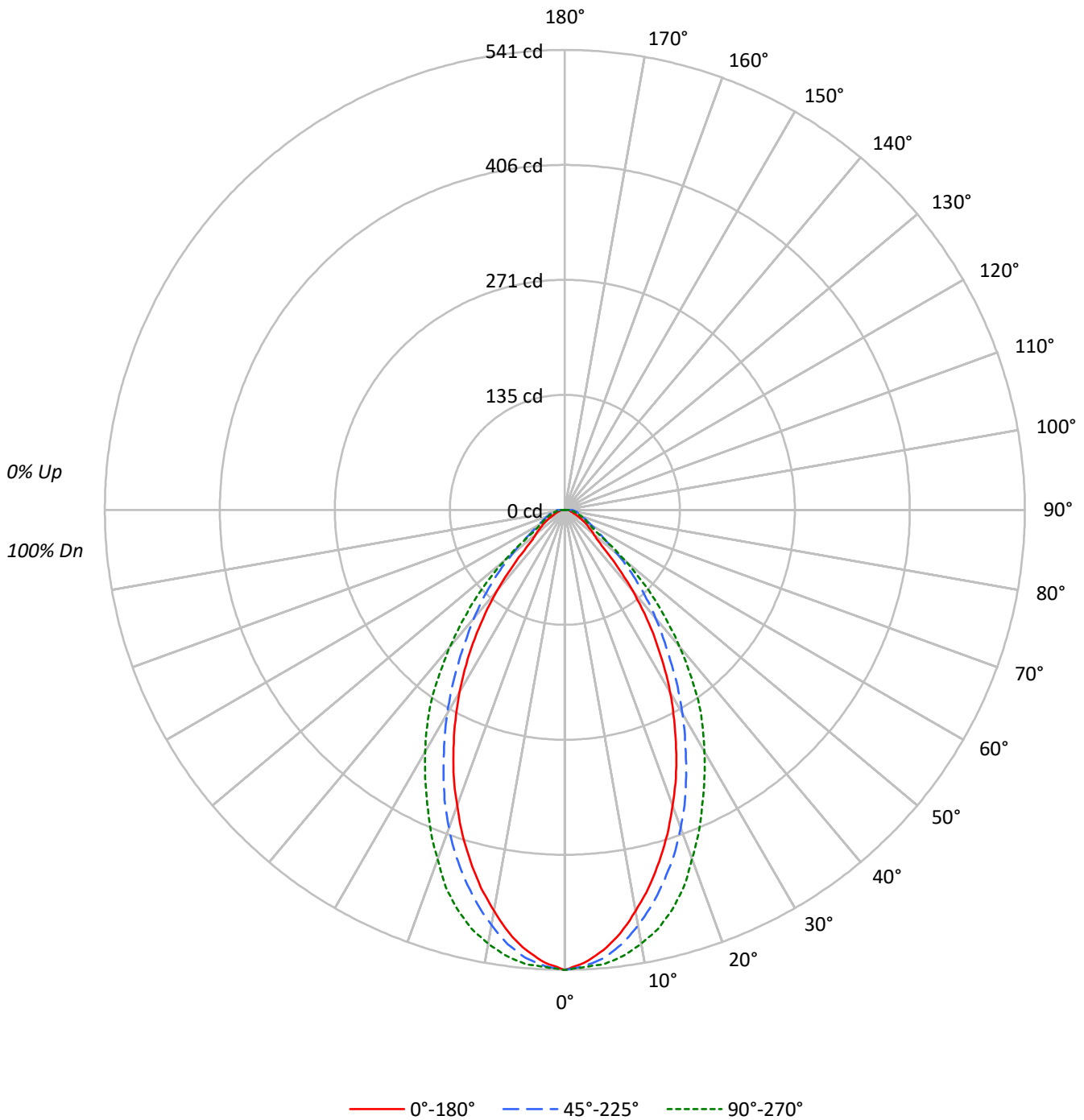
Lumens per Lamp: N/A
Luminaire Lumens: 652.9 lumens
Efficiency: N/A
Efficacy: 18.7 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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: P1058153

CATALOG NUMBER: S122RDR-S865D927-X4F0-XX-UDD-SVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1058153

CATALOG NUMBER: S122RDR-S865D927-X4F0-XX-UDD-SVL-S

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	101	99	97	98	96	94	94	93	91	89				89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	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	66	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	44	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°	9986	9986	9986
5°	9636	9802	9932
10°	8981	9299	9710
15°	8184	8621	9309
20°	7273	7823	8587
25°	6301	6872	7786
30°	5276	5894	6999
35°	4161	4881	6163
40°	2982	3994	5051
45°	1746	3152	3909
50°	1260	2294	2638
55°	1062	1637	1380
60°	849	1325	1181
65°	699	1179	1092
70°	593	1133	1025
75°	570	1212	998
80°	638	1488	1063
85°	1059	2329	1482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3909 cd/sqm



TEST NUMBER: P1058153

CATALOG NUMBER: S122RDR-S865D927-X4F0-XX-UDD-SVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	7.6
10°-20°	127.0	19.5
20°-30°	156.1	23.9
30°-40°	138.1	21.1
40°-50°	88.1	13.5
50°-60°	43.0	6.6
60°-70°	25.6	3.9
70°-80°	16.4	2.5
80°-90°	9.0	1.4
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°	332.8	51.0
0°-40°	470.8	72.1
0°-60°	601.9	92.2
0°-90°	652.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	652.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	541	541	541	541	541	
5°	520	531	529	531	536	48
15°	428	440	451	471	487	120
25°	310	320	338	358	382	142
35°	185	195	217	247	274	115
45°	67	86	121	136	150	56
55°	33	44	51	48	43	30
65°	16	30	27	25	25	16
75°	8	18	17	15	14	9
85°	5	10	11	10	7	5
90°	0	0	0	0	0	



TEST NUMBER: P1058153

CATALOG NUMBER: S122RDR-S865D927-X4F0-XX-UDD-SVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	541.2	541.2	541.2	541.2	541.2
2.5°	533.2	543.2	537.2	537.2	538.2
5°	520.2	531.2	529.2	531.2	536.2
7.5°	502.3	513.2	515.2	523.2	529.2
10°	479.3	490.3	496.3	509.2	518.2
12.5°	455.3	466.3	475.3	492.3	505.2
15°	428.4	440.3	451.3	471.3	487.3
17.5°	400.4	412.4	426.4	446.3	465.3
20°	370.4	381.4	398.4	417.4	437.3
22.5°	341.5	351.5	369.4	387.4	411.4
25°	309.5	320.5	337.5	358.5	382.4
27.5°	278.6	289.6	306.5	330.5	355.5
30°	247.6	257.6	276.6	301.6	328.5
32.5°	215.7	225.7	246.6	273.6	301.6
35°	184.7	194.7	216.7	246.6	273.6
37.5°	153.8	164.8	189.7	217.7	240.6
40°	123.8	136.8	165.8	189.7	209.7
42.5°	93.9	111.8	142.8	162.8	178.7
45°	66.9	85.9	120.8	135.8	149.8
47.5°	50.9	65.9	99.9	110.8	119.8
50°	43.9	53.9	79.9	87.9	91.9
52.5°	37.9	47.9	63.9	66.9	64.9
55°	33.0	43.9	50.9	47.9	42.9
57.5°	28.0	40.9	41.9	35.9	36.9
60°	23.0	36.9	35.9	31.0	32.0
62.5°	19.0	33.9	31.0	28.0	28.0
65°	16.0	30.0	27.0	25.0	25.0
67.5°	13.0	27.0	24.0	22.0	22.0
70°	11.0	24.0	21.0	19.0	19.0
72.5°	10.0	21.0	19.0	17.0	17.0
75°	8.0	18.0	17.0	15.0	14.0
77.5°	7.0	15.0	15.0	14.0	12.0
80°	6.0	13.0	14.0	12.0	10.0
82.5°	6.0	12.0	12.0	11.0	8.0
85°	5.0	10.0	11.0	10.0	7.0
87.5°	3.0	9.0	9.0	8.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)