

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1058162

Luminaire Tested: S122RDRP-S865D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058162
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: S122RDRP-S865D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

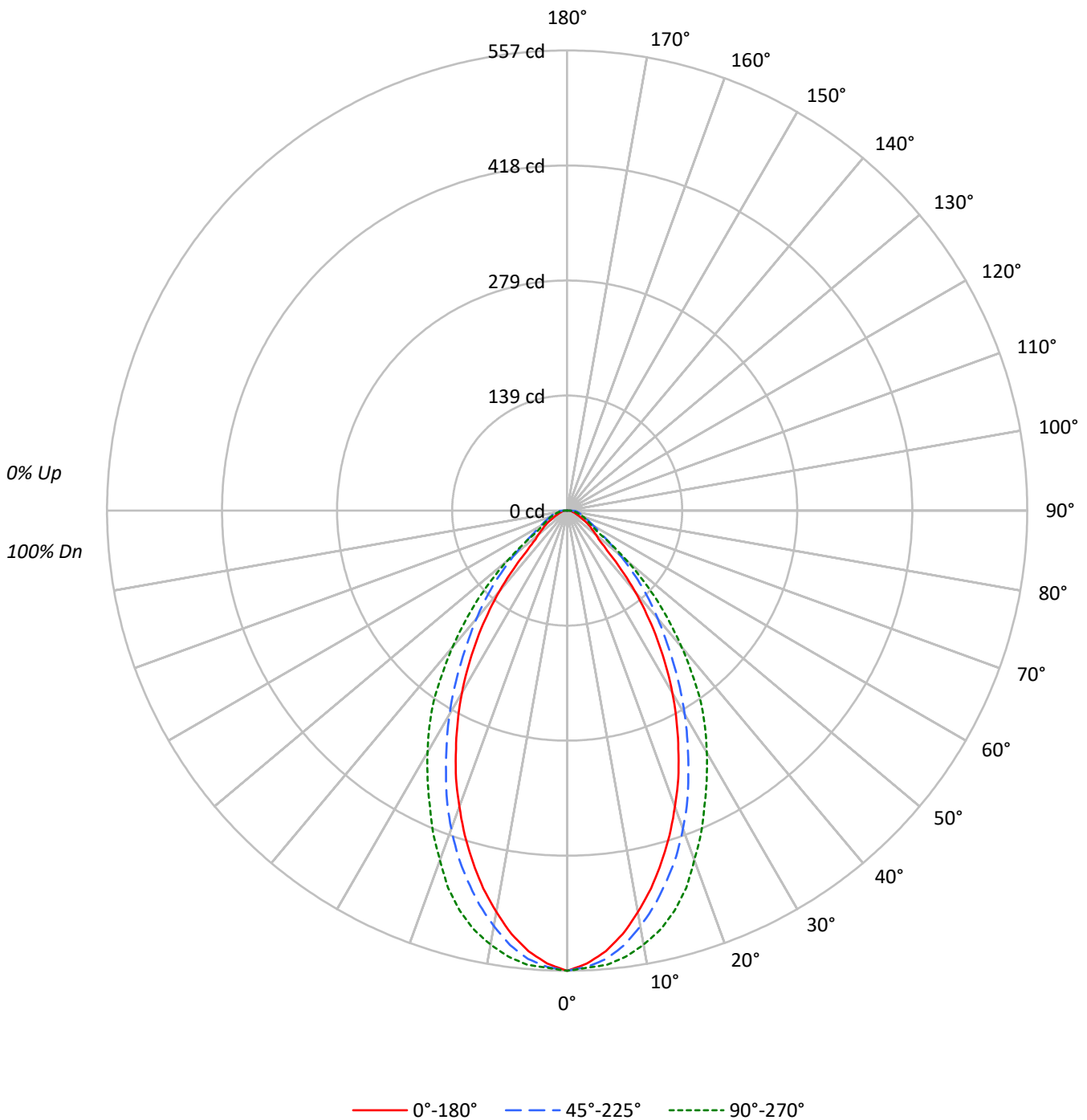
Lumens per Lamp: N/A
Luminaire Lumens: 671.9 lumens
Efficiency: N/A
Efficacy: 19.2 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): 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: P1058162

CATALOG NUMBER: S122RDRP-S865D930-X4F0-XX-UDD-SVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1058162

CATALOG NUMBER: S122RDRP-S865D930-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	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	101	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	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	66	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	44	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°	10278	10278	10278
5°	9917	10089	10221
10°	9243	9569	9994
15°	8423	8874	9580
20°	7487	8051	8838
25°	6487	7071	8014
30°	5431	6066	7204
35°	4282	5023	6343
40°	3069	4109	5198
45°	1798	3244	4021
50°	1298	2360	2713
55°	1091	1686	1422
60°	871	1365	1214
65°	716	1209	1122
70°	610	1165	1052
75°	585	1248	1027
80°	659	1530	1095
85°	1080	2392	1524

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4021 cd/sqm



TEST NUMBER: P1058162

CATALOG NUMBER: S122RDRP-S865D930-X4F0-XX-UDD-SVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	7.6
10°-20°	130.8	19.5
20°-30°	160.7	23.9
30°-40°	142.1	21.1
40°-50°	90.7	13.5
50°-60°	44.2	6.6
60°-70°	26.4	3.9
70°-80°	16.8	2.5
80°-90°	9.3	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°	342.5	51.0
0°-40°	484.6	72.1
0°-60°	619.5	92.2
0°-90°	671.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	671.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	557	557	557	557	557	
5°	535	547	545	547	552	50
15°	441	453	464	485	502	123
25°	319	330	347	369	394	146
35°	190	200	223	254	282	118
45°	69	88	124	140	154	58
55°	34	45	52	49	44	30
65°	16	31	28	26	26	16
75°	8	18	18	15	14	9
85°	5	10	11	10	7	5
90°	0	0	0	0	0	



TEST NUMBER: P1058162

CATALOG NUMBER: S122RDRP-S865D930-X4F0-XX-UDD-SVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	557.0	557.0	557.0	557.0	557.0
2.5°	548.8	559.0	552.9	552.9	553.9
5°	535.4	546.7	544.7	546.7	551.8
7.5°	516.9	528.2	530.3	538.5	544.7
10°	493.3	504.6	510.7	524.1	533.4
12.5°	468.6	479.9	489.2	506.6	520.0
15°	440.9	453.2	464.5	485.1	501.5
17.5°	412.1	424.4	438.8	459.4	478.9
20°	381.3	392.6	410.0	429.6	450.1
22.5°	351.5	361.7	380.2	398.7	423.4
25°	318.6	329.9	347.3	368.9	393.6
27.5°	286.7	298.0	315.5	340.2	365.8
30°	254.9	265.1	284.7	310.4	338.1
32.5°	222.0	232.2	253.8	281.6	310.4
35°	190.1	200.4	223.0	253.8	281.6
37.5°	158.3	169.6	195.3	224.0	247.7
40°	127.4	140.8	170.6	195.3	215.8
42.5°	96.6	115.1	147.0	167.5	183.9
45°	68.9	88.4	124.3	139.8	154.1
47.5°	52.4	67.8	102.8	114.1	123.3
50°	45.2	55.5	82.2	90.4	94.5
52.5°	39.1	49.3	65.8	68.9	66.8
55°	33.9	45.2	52.4	49.3	44.2
57.5°	28.8	42.1	43.2	37.0	38.0
60°	23.6	38.0	37.0	31.9	32.9
62.5°	19.5	34.9	31.9	28.8	28.8
65°	16.4	30.8	27.7	25.7	25.7
67.5°	13.4	27.7	24.7	22.6	22.6
70°	11.3	24.7	21.6	19.5	19.5
72.5°	10.3	21.6	19.5	17.5	17.5
75°	8.2	18.5	17.5	15.4	14.4
77.5°	7.2	15.4	15.4	14.4	12.3
80°	6.2	13.4	14.4	12.3	10.3
82.5°	6.2	12.3	12.3	11.3	8.2
85°	5.1	10.3	11.3	10.3	7.2
87.5°	3.1	9.2	9.2	8.2	5.1
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1058162
 CATALOG NUMBER: S122RDRP-S865D930-X4F0-XX-UDD-SVL-S

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	10.12	11.40	10.48	11.71	12.03	9.65	10.93	10.01	11.24	11.56
	3H	11.30	12.44	11.68	12.77	13.13	11.21	12.35	11.59	12.68	13.04
	4H	11.73	12.79	12.13	13.14	13.52	11.89	12.96	12.30	13.31	13.69
	6H	12.07	13.05	12.49	13.42	13.82	12.54	13.52	12.96	13.89	14.28
	8H	12.27	13.20	12.70	13.59	13.99	12.83	13.75	13.26	14.15	14.55
	12H	12.49	13.37	12.92	13.76	14.19	13.15	14.03	13.58	14.41	14.85
4H	2H	10.62	11.68	11.02	12.03	12.42	10.25	11.31	10.65	11.66	12.04
	3H	12.27	13.14	12.68	13.55	13.95	12.05	12.92	12.46	13.32	13.73
	4H	13.03	13.82	13.47	14.24	14.68	12.89	13.67	13.32	14.09	14.54
	6H	13.64	14.32	14.10	14.76	15.23	13.74	14.42	14.21	14.87	15.34
	8H	13.94	14.57	14.41	15.02	15.49	14.13	14.77	14.60	15.22	15.69
	12H	14.25	14.81	14.74	15.30	15.77	14.57	15.13	15.06	15.62	16.09
8H	4H	13.45	14.09	13.92	14.53	15.01	13.35	13.98	13.82	14.43	14.90
	6H	14.40	14.92	14.91	15.42	15.90	14.45	14.98	14.96	15.47	15.95
	8H	14.95	15.42	15.47	15.93	16.43	15.03	15.50	15.55	16.02	16.51
	12H	15.51	15.93	16.03	16.42	16.99	15.70	16.12	16.22	16.61	17.18
12H	4H	13.52	14.08	14.01	14.57	15.04	13.43	13.99	13.92	14.48	14.95
	6H	14.59	15.05	15.11	15.57	16.06	14.64	15.11	15.16	15.62	16.12
	8H	15.28	15.69	15.79	16.19	16.76	15.35	15.76	15.86	16.26	16.83