

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: P1058108

Luminaire Tested: S122RDRP-S675D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058108
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-S675D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

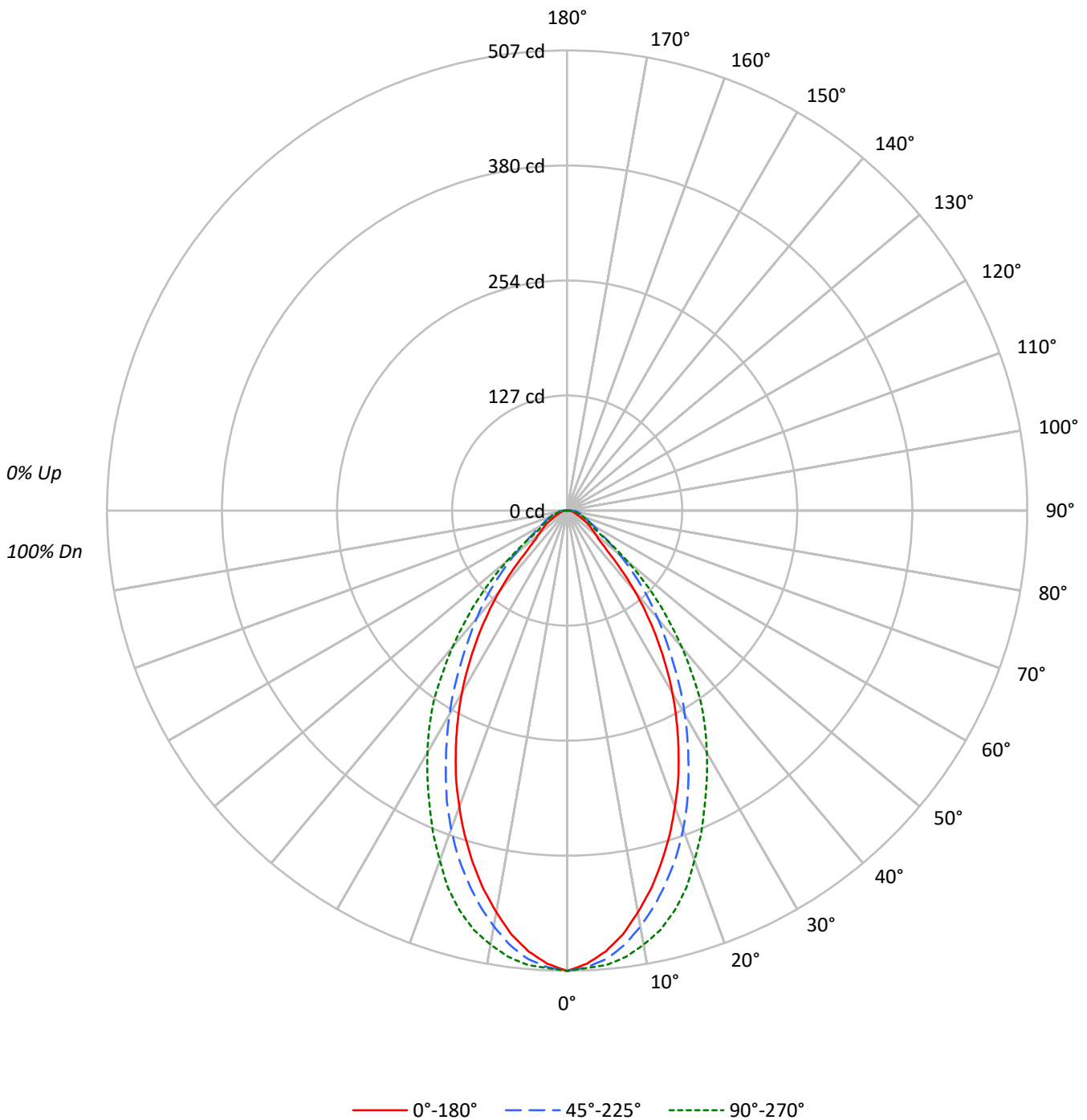
Lumens per Lamp: N/A
Luminaire Lumens: 611.9 lumens
Efficiency: N/A
Efficacy: 23.7 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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

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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9359	9359	9359
5°	9030	9186	9308
10°	8417	8715	9099
15°	7668	8081	8723
20°	6818	7332	8049
25°	5906	6440	7297
30°	4945	5523	6560
35°	3899	4575	5776
40°	2794	3741	4733
45°	1636	2954	3664
50°	1183	2150	2472
55°	994	1535	1293
60°	793	1244	1103
65°	655	1105	1022
70°	556	1063	960
75°	535	1134	934
80°	595	1392	999
85°	995	2181	1397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3664 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	7.6
10°-20°	119.1	19.5
20°-30°	146.3	23.9
30°-40°	129.4	21.1
40°-50°	82.6	13.5
50°-60°	40.3	6.6
60°-70°	24.0	3.9
70°-80°	15.3	2.5
80°-90°	8.4	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°	311.9	51.0
0°-40°	441.2	72.1
0°-60°	564.1	92.2
0°-90°	611.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	611.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	488	498	496	498	502	45
15°	401	413	423	442	457	112
25°	290	300	316	336	358	133
35°	173	182	203	231	256	107
45°	63	80	113	127	140	53
55°	31	41	48	45	40	28
65°	15	28	25	23	23	15
75°	8	17	16	14	13	8
85°	5	9	10	9	7	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	507.2	507.2	507.2	507.2	507.2
2.5°	499.7	509.0	503.4	503.4	504.4
5°	487.5	497.8	495.9	497.8	502.5
7.5°	470.7	481.0	482.8	490.3	495.9
10°	449.2	459.4	465.1	477.2	485.6
12.5°	426.7	437.0	445.4	461.3	473.5
15°	401.4	412.7	423.0	441.7	456.6
17.5°	375.2	386.5	399.6	418.3	436.1
20°	347.2	357.5	373.4	391.1	409.9
22.5°	320.0	329.4	346.2	363.1	385.5
25°	290.1	300.4	316.3	335.9	358.4
27.5°	261.1	271.4	287.3	309.7	333.1
30°	232.1	241.4	259.2	282.6	307.9
32.5°	202.1	211.5	231.1	256.4	282.6
35°	173.1	182.5	203.1	231.1	256.4
37.5°	144.1	154.4	177.8	204.0	225.5
40°	116.0	128.2	155.3	177.8	196.5
42.5°	88.0	104.8	133.8	152.5	167.5
45°	62.7	80.5	113.2	127.3	140.4
47.5°	47.7	61.8	93.6	103.9	112.3
50°	41.2	50.5	74.9	82.3	86.1
52.5°	35.6	44.9	59.9	62.7	60.8
55°	30.9	41.2	47.7	44.9	40.2
57.5°	26.2	38.4	39.3	33.7	34.6
60°	21.5	34.6	33.7	29.0	29.9
62.5°	17.8	31.8	29.0	26.2	26.2
65°	15.0	28.1	25.3	23.4	23.4
67.5°	12.2	25.3	22.5	20.6	20.6
70°	10.3	22.5	19.7	17.8	17.8
72.5°	9.4	19.7	17.8	15.9	15.9
75°	7.5	16.8	15.9	14.0	13.1
77.5°	6.6	14.0	14.0	13.1	11.2
80°	5.6	12.2	13.1	11.2	9.4
82.5°	5.6	11.2	11.2	10.3	7.5
85°	4.7	9.4	10.3	9.4	6.6
87.5°	2.8	8.4	8.4	7.5	4.7
90°	0.0	0.0	0.0	0.0	0.0



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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	9.80	11.08	10.17	11.39	11.71	9.32	10.60	9.69	10.92	11.23
	3H	10.98	12.12	11.36	12.45	12.81	10.89	12.03	11.27	12.36	12.72
	4H	11.41	12.47	11.81	12.82	13.21	11.57	12.63	11.97	12.98	13.37
	6H	11.76	12.73	12.17	13.10	13.50	12.22	13.19	12.63	13.56	13.96
	8H	11.95	12.88	12.38	13.27	13.67	12.51	13.43	12.94	13.82	14.23
	12H	12.17	13.06	12.60	13.44	13.87	12.83	13.71	13.26	14.10	14.53
4H	2H	10.31	11.37	10.71	11.72	12.10	9.93	10.99	10.33	11.34	11.72
	3H	11.95	12.83	12.37	13.23	13.64	11.73	12.60	12.14	13.01	13.41
	4H	12.71	13.50	13.15	13.92	14.36	12.56	13.35	13.00	13.77	14.21
	6H	13.32	14.00	13.78	14.44	14.91	13.42	14.10	13.88	14.55	15.01
	8H	13.61	14.25	14.08	14.70	15.17	13.81	14.45	14.28	14.89	15.37
	12H	13.93	14.49	14.41	14.97	15.45	14.25	14.82	14.74	15.30	15.77
8H	4H	13.13	13.77	13.60	14.21	14.68	13.02	13.66	13.49	14.10	14.58
	6H	14.08	14.60	14.58	15.10	15.58	14.13	14.65	14.63	15.15	15.63
	8H	14.62	15.09	15.15	15.61	16.10	14.71	15.18	15.23	15.69	16.19
	12H	15.19	15.61	15.71	16.10	16.67	15.38	15.80	15.90	16.29	16.87
12H	4H	13.20	13.76	13.69	14.25	14.72	13.10	13.67	13.59	14.15	14.63
	6H	14.26	14.73	14.78	15.25	15.74	14.31	14.78	14.84	15.30	15.79
	8H	14.95	15.37	15.47	15.86	16.43	15.03	15.44	15.54	15.94	16.51