

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: P1058108

Luminaire Tested: S122RDR-S675D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S122RDR-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

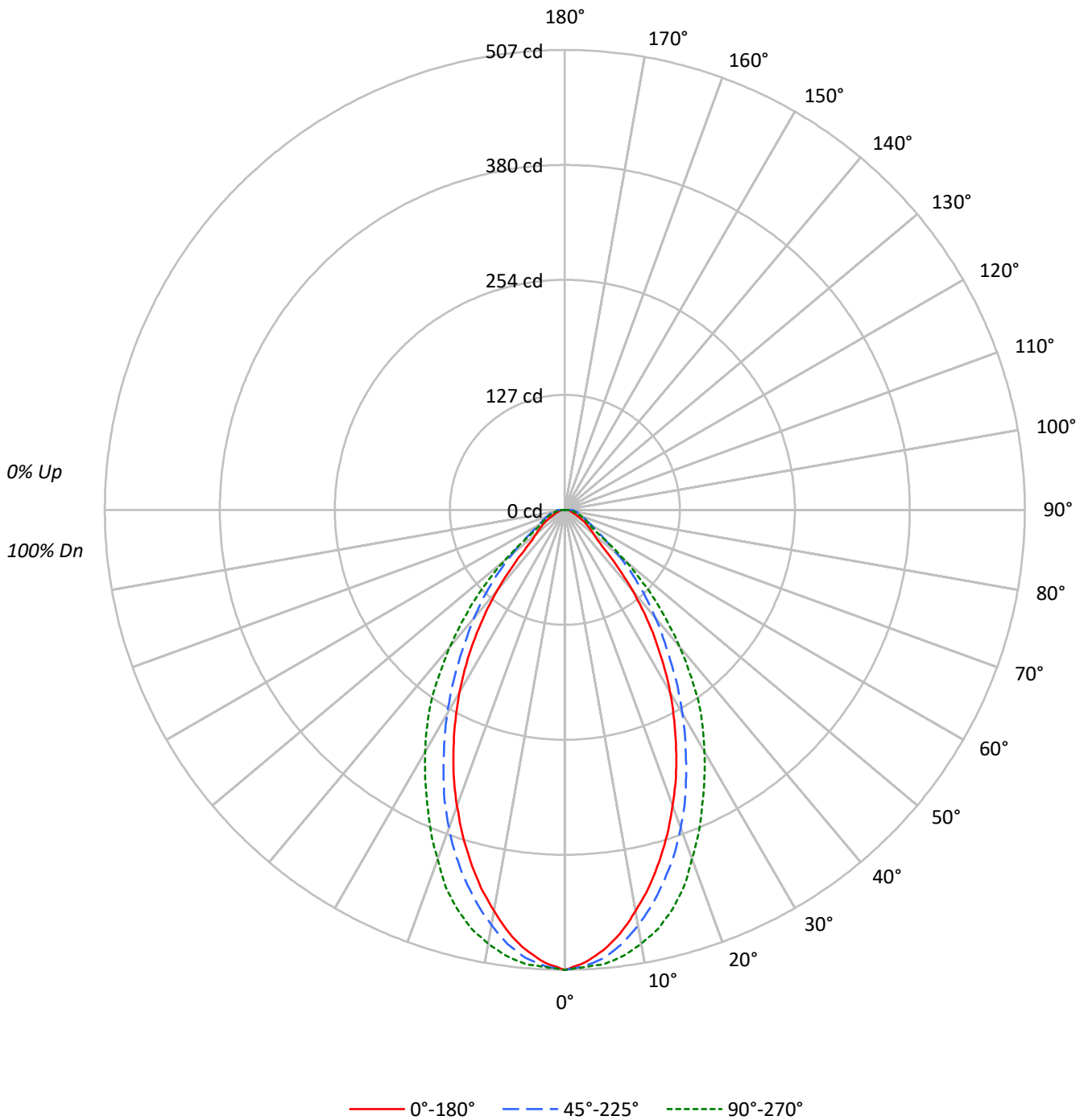
Lumens per Lamp: N/A
Luminaire Lumens: 611.9 lumens
Efficiency: N/A
Efficacy: 23.7 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (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	50	30	10
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°	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

(END OF REPORT)