

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: P1058090

Luminaire Tested: S122RDR-S675D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

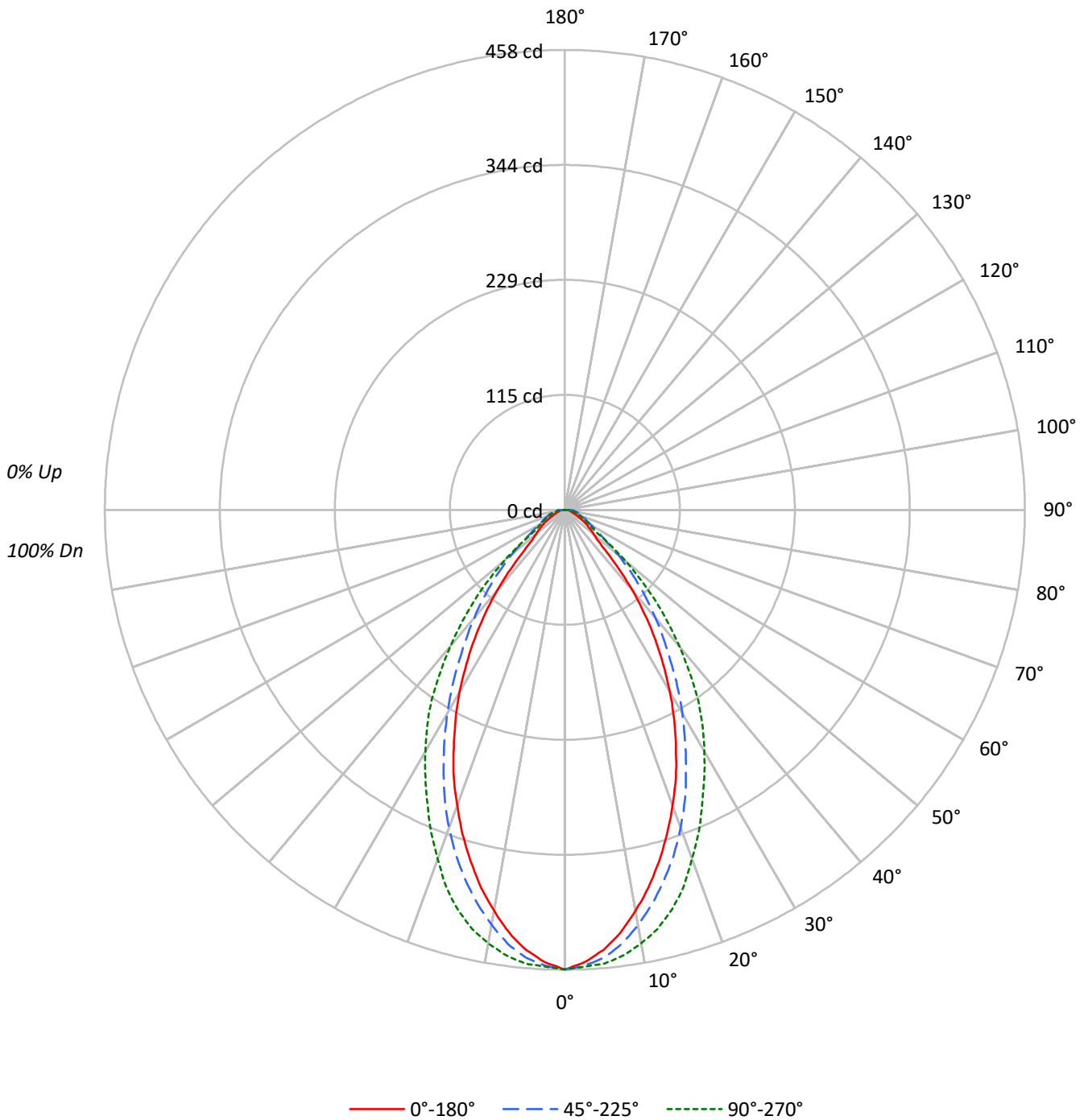
Test Method: LM-79-2019  
Report Number: P1058090  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S675D935-X4F0-XX-UDD-SVL-S  
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 552.2 lumens  
Efficiency: N/A  
Efficacy: 21.4 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	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°	8446	8446	8446
5°	8150	8291	8400
10°	7596	7864	8212
15°	6921	7292	7873
20°	6152	6618	7264
25°	5330	5811	6584
30°	4462	4984	5919
35°	3519	4129	5213
40°	2522	3377	4271
45°	1477	2667	3306
50°	1068	1941	2231
55°	898	1387	1168
60°	716	1122	996
65°	589	995	921
70°	502	955	863
75°	485	1027	841
80°	542	1254	893
85°	889	1969	1249

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3306 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.0	7.6
10°-20°	107.4	19.5
20°-30°	132.1	23.9
30°-40°	116.8	21.1
40°-50°	74.5	13.5
50°-60°	36.3	6.6
60°-70°	21.7	3.9
70°-80°	13.8	2.5
80°-90°	7.6	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°	281.5	51.0
0°-40°	398.2	72.1
0°-60°	509.1	92.2
0°-90°	552.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	552.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	458	458	458	458	458	
5°	440	449	448	449	454	41
15°	362	372	382	399	412	101
25°	262	271	285	303	323	120
35°	156	165	183	209	231	97
45°	57	73	102	115	127	48
55°	28	37	43	40	36	25
65°	14	25	23	21	21	14
75°	7	15	14	13	12	7
85°	4	8	9	8	6	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	457.7	457.7	457.7	457.7	457.7
2.5°	451.0	459.4	454.3	454.3	455.2
5°	440.0	449.3	447.6	449.3	453.5
7.5°	424.8	434.1	435.8	442.5	447.6
10°	405.4	414.7	419.7	430.7	438.3
12.5°	385.1	394.4	402.0	416.3	427.3
15°	362.3	372.4	381.7	398.6	412.1
17.5°	338.6	348.8	360.6	377.5	393.5
20°	313.3	322.6	337.0	353.0	369.9
22.5°	288.8	297.3	312.5	327.7	347.9
25°	261.8	271.1	285.4	303.2	323.4
27.5°	235.6	244.9	259.3	279.5	300.6
30°	209.4	217.9	233.9	255.0	277.8
32.5°	182.4	190.9	208.6	231.4	255.0
35°	156.2	164.7	183.3	208.6	231.4
37.5°	130.1	139.3	160.5	184.1	203.5
40°	104.7	115.7	140.2	160.5	177.3
42.5°	79.4	94.6	120.8	137.7	151.2
45°	56.6	72.6	102.2	114.9	126.7
47.5°	43.1	55.7	84.5	93.7	101.3
50°	37.2	45.6	67.6	74.3	77.7
52.5°	32.1	40.5	54.0	56.6	54.9
55°	27.9	37.2	43.1	40.5	36.3
57.5°	23.6	34.6	35.5	30.4	31.2
60°	19.4	31.2	30.4	26.2	27.0
62.5°	16.0	28.7	26.2	23.6	23.6
65°	13.5	25.3	22.8	21.1	21.1
67.5°	11.0	22.8	20.3	18.6	18.6
70°	9.3	20.3	17.7	16.0	16.0
72.5°	8.4	17.7	16.0	14.4	14.4
75°	6.8	15.2	14.4	12.7	11.8
77.5°	5.9	12.7	12.7	11.8	10.1
80°	5.1	11.0	11.8	10.1	8.4
82.5°	5.1	10.1	10.1	9.3	6.8
85°	4.2	8.4	9.3	8.4	5.9
87.5°	2.5	7.6	7.6	6.8	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)