

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: P1058081

Luminaire Tested: S122RDR-S675D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058081  
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-S675D930-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: -

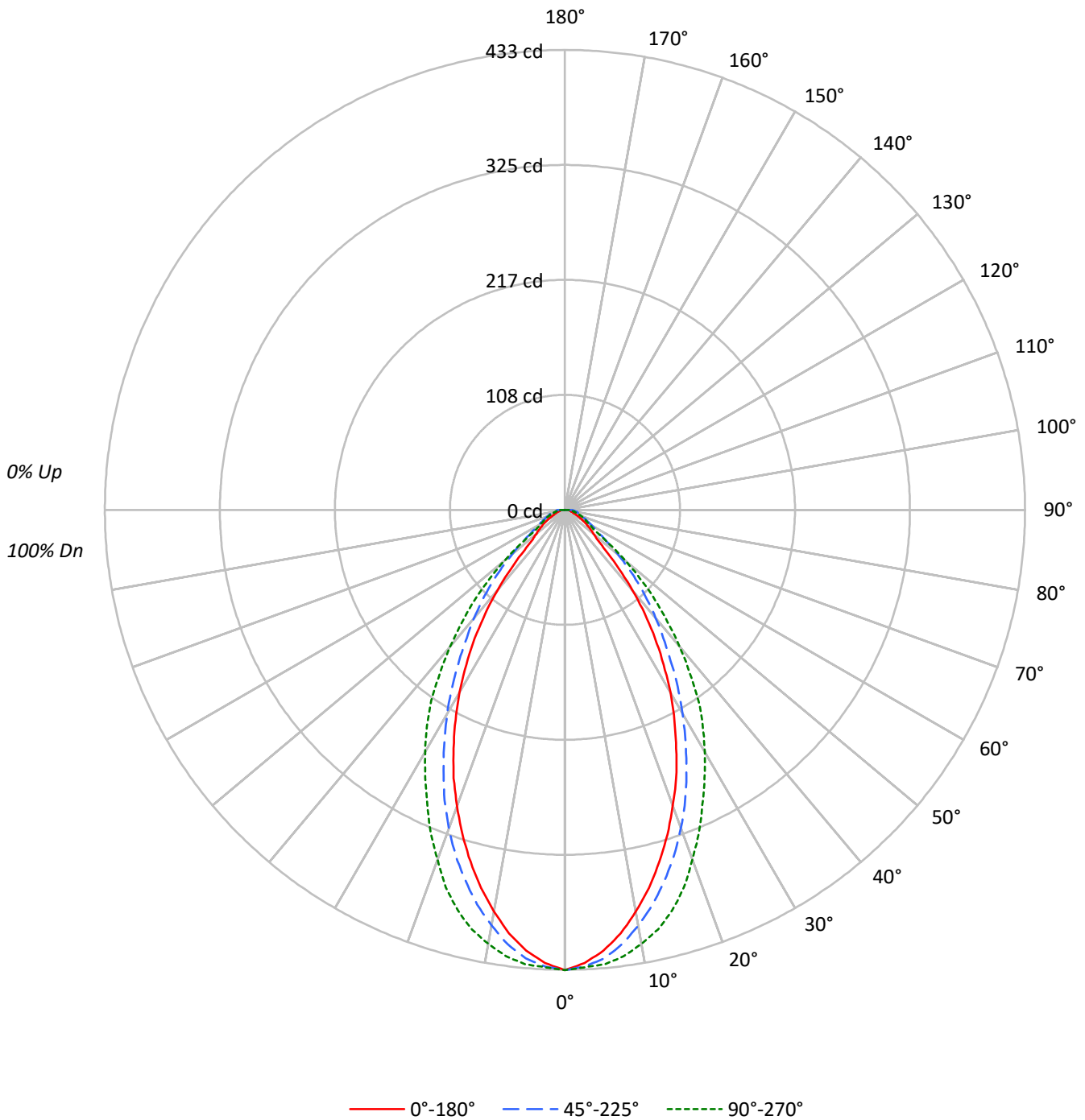
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 522.9 lumens  
Efficiency: N/A  
Efficacy: 20.3 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	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°	7997	7997	7997
5°	7717	7850	7954
10°	7193	7446	7776
15°	6554	6906	7454
20°	5826	6266	6879
25°	5047	5503	6236
30°	4225	4720	5606
35°	3332	3908	4936
40°	2390	3196	4044
45°	1399	2526	3131
50°	1010	1837	2113
55°	849	1313	1107
60°	679	1063	945
65°	559	943	873
70°	475	906	820
75°	456	970	799
80°	510	1190	850
85°	847	1863	1186

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3131 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.7	7.6
10°-20°	101.8	19.5
20°-30°	125.1	23.9
30°-40°	110.5	21.1
40°-50°	70.6	13.5
50°-60°	34.4	6.6
60°-70°	20.5	3.9
70°-80°	13.1	2.5
80°-90°	7.2	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°	266.5	51.0
0°-40°	377.1	72.1
0°-60°	482.1	92.2
0°-90°	522.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	522.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	433	433	433	433	433	
5°	417	425	424	425	429	39
15°	343	353	362	378	390	96
25°	248	257	270	287	306	113
35°	148	156	174	198	219	92
45°	54	69	97	109	120	45
55°	26	35	41	38	34	24
65°	13	24	22	20	20	13
75°	6	14	14	12	11	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°	433.4	433.4	433.4	433.4	433.4
2.5°	427.0	435.0	430.2	430.2	431.0
5°	416.6	425.4	423.8	425.4	429.4
7.5°	402.2	411.0	412.6	419.0	423.8
10°	383.9	392.6	397.4	407.8	415.0
12.5°	364.7	373.5	380.7	394.2	404.6
15°	343.1	352.7	361.5	377.5	390.2
17.5°	320.7	330.3	341.5	357.5	372.7
20°	296.7	305.5	319.1	334.3	350.3
22.5°	273.5	281.5	295.9	310.3	329.5
25°	247.9	256.7	270.3	287.1	306.3
27.5°	223.1	231.9	245.5	264.7	284.7
30°	198.3	206.3	221.5	241.5	263.1
32.5°	172.7	180.7	197.5	219.1	241.5
35°	147.9	155.9	173.5	197.5	219.1
37.5°	123.2	131.9	151.9	174.3	192.7
40°	99.2	109.6	132.7	151.9	167.9
42.5°	75.2	89.6	114.4	130.3	143.1
45°	53.6	68.8	96.8	108.8	120.0
47.5°	40.8	52.8	80.0	88.8	96.0
50°	35.2	43.2	64.0	70.4	73.6
52.5°	30.4	38.4	51.2	53.6	52.0
55°	26.4	35.2	40.8	38.4	34.4
57.5°	22.4	32.8	33.6	28.8	29.6
60°	18.4	29.6	28.8	24.8	25.6
62.5°	15.2	27.2	24.8	22.4	22.4
65°	12.8	24.0	21.6	20.0	20.0
67.5°	10.4	21.6	19.2	17.6	17.6
70°	8.8	19.2	16.8	15.2	15.2
72.5°	8.0	16.8	15.2	13.6	13.6
75°	6.4	14.4	13.6	12.0	11.2
77.5°	5.6	12.0	12.0	11.2	9.6
80°	4.8	10.4	11.2	9.6	8.0
82.5°	4.8	9.6	9.6	8.8	6.4
85°	4.0	8.0	8.8	8.0	5.6
87.5°	2.4	7.2	7.2	6.4	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)