

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: P1058054

Luminaire Tested: S122RDR-S675D840-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058054  
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-S675D840-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

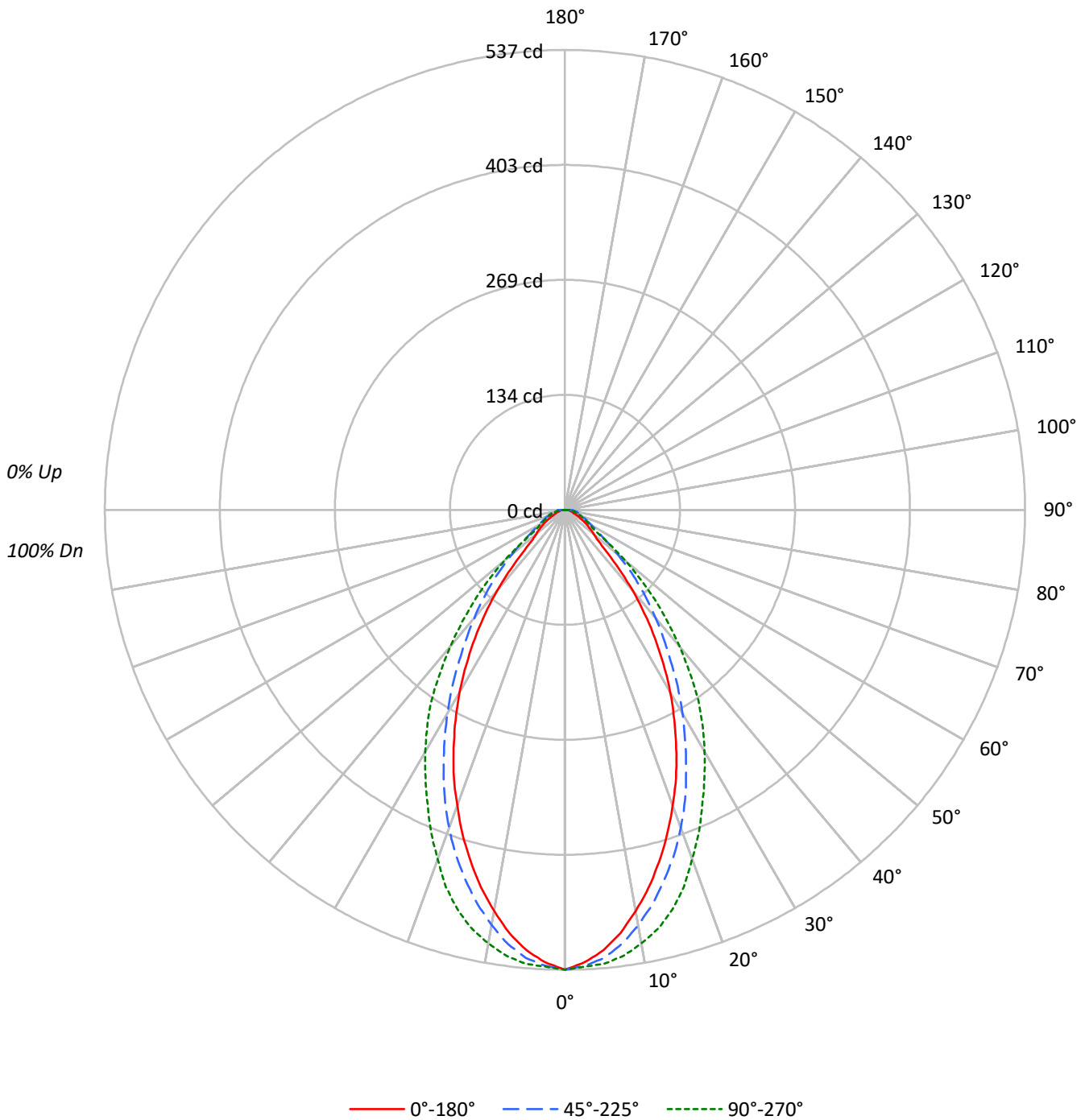
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 647.7 lumens  
Efficiency: N/A  
Efficacy: 25.1 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°	9907	9907	9907
5°	9560	9725	9852
10°	8910	9224	9633
15°	8117	8553	9235
20°	7216	7760	8520
25°	6253	6817	7725
30°	5235	5847	6944
35°	4127	4841	6114
40°	2958	3960	5010
45°	1733	3129	3878
50°	1252	2274	2615
55°	1052	1625	1370
60°	841	1318	1170
65°	690	1166	1083
70°	588	1122	1014
75°	563	1198	991
80°	627	1477	1052
85°	1059	2308	1461

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3878 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.2	7.6
10°-20°	126.0	19.5
20°-30°	154.9	23.9
30°-40°	136.9	21.1
40°-50°	87.4	13.5
50°-60°	42.6	6.6
60°-70°	25.4	3.9
70°-80°	16.2	2.5
80°-90°	8.9	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°	330.1	51.0
0°-40°	467.1	72.1
0°-60°	597.1	92.2
0°-90°	647.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	647.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	516	527	525	527	532	48
15°	425	437	448	468	483	119
25°	307	318	335	356	379	141
35°	183	193	215	245	271	114
45°	66	85	120	135	149	56
55°	33	44	50	48	43	29
65°	16	30	27	25	25	16
75°	8	18	17	15	14	9
85°	5	10	11	10	7	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	536.9	536.9	536.9	536.9	536.9
2.5°	528.9	538.8	532.9	532.9	533.9
5°	516.1	527.0	525.0	527.0	531.9
7.5°	498.2	509.1	511.1	519.0	525.0
10°	475.5	486.4	492.3	505.2	514.1
12.5°	451.7	462.6	471.5	488.3	501.2
15°	424.9	436.8	447.7	467.5	483.4
17.5°	397.2	409.1	423.0	442.8	461.6
20°	367.5	378.4	395.2	414.0	433.9
22.5°	338.8	348.7	366.5	384.3	408.1
25°	307.1	318.0	334.8	355.6	379.4
27.5°	276.4	287.3	304.1	327.9	352.6
30°	245.7	255.6	274.4	299.1	325.9
32.5°	214.0	223.9	244.7	271.4	299.1
35°	183.2	193.2	214.9	244.7	271.4
37.5°	152.5	163.4	188.2	215.9	238.7
40°	122.8	135.7	164.4	188.2	208.0
42.5°	93.1	110.9	141.6	161.5	177.3
45°	66.4	85.2	119.9	134.7	148.6
47.5°	50.5	65.4	99.1	109.9	118.9
50°	43.6	53.5	79.2	87.2	91.1
52.5°	37.6	47.5	63.4	66.4	64.4
55°	32.7	43.6	50.5	47.5	42.6
57.5°	27.7	40.6	41.6	35.7	36.6
60°	22.8	36.6	35.7	30.7	31.7
62.5°	18.8	33.7	30.7	27.7	27.7
65°	15.8	29.7	26.7	24.8	24.8
67.5°	12.9	26.7	23.8	21.8	21.8
70°	10.9	23.8	20.8	18.8	18.8
72.5°	9.9	20.8	18.8	16.8	16.8
75°	7.9	17.8	16.8	14.9	13.9
77.5°	6.9	14.9	14.9	13.9	11.9
80°	5.9	12.9	13.9	11.9	9.9
82.5°	5.9	11.9	11.9	10.9	7.9
85°	5.0	9.9	10.9	9.9	6.9
87.5°	3.0	8.9	8.9	7.9	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)