

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: P1058089

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058089  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-20)  
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-B  
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

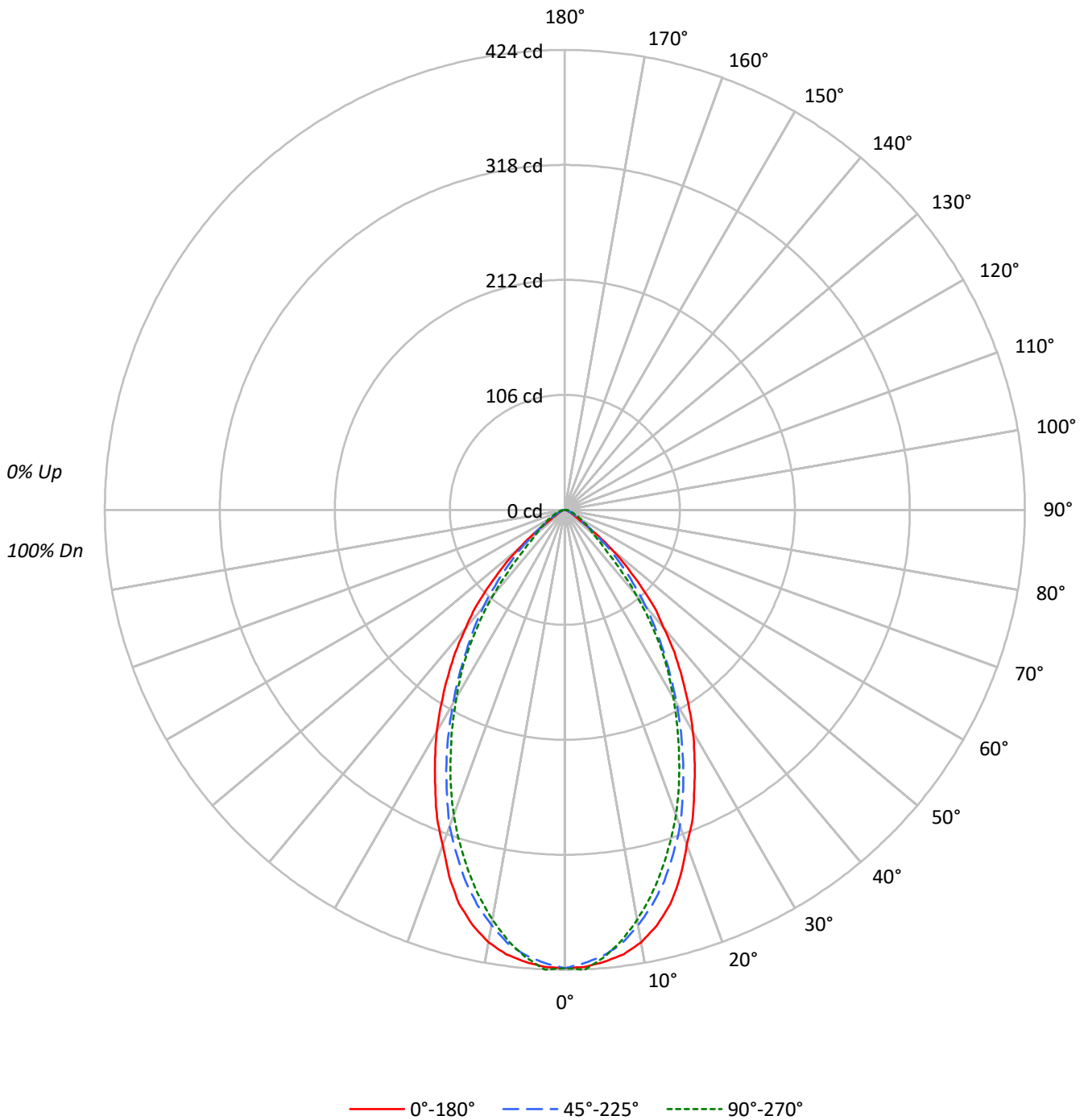
Lumens per Lamp: N/A  
Luminaire Lumens: 454.4 lumens  
Efficiency: N/A  
Efficacy: 17.6 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.85 / 0.91  
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')  
CIE Type: Direct

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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	44

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7796	7796	7796
5°	7748	7639	7670
10°	7585	7285	7189
15°	7187	6766	6573
20°	6459	6095	5879
25°	5752	5255	5066
30°	5031	4385	4259
35°	4237	3552	3440
40°	3413	2804	2479
45°	2552	2025	1474
50°	1599	1306	967
55°	544	705	788
60°	310	435	624
65°	223	293	480
70°	183	227	361
75°	121	178	299
80°	85	181	266
85°	0	0	169

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2552 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.9	8.6
10°-20°	99.7	21.9
20°-30°	120.0	26.4
30°-40°	102.6	22.6
40°-50°	60.1	13.2
50°-60°	21.8	4.8
60°-70°	7.7	1.7
70°-80°	3.1	0.7
80°-90°	0.5	0.1
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°	258.7	56.9
0°-40°	361.2	79.5
0°-60°	443.1	97.5
0°-90°	454.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	454.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	418	419	412	414	414	40
15°	376	370	354	348	344	104
25°	282	271	258	254	249	130
35°	188	174	158	156	153	117
45°	98	88	78	65	56	75
55°	17	24	22	23	24	21
65°	5	6	7	9	11	5
75°	2	2	2	3	4	2
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	422.5	422.5	422.5	422.5	422.5
2.5°	421.7	422.5	418.3	422.5	424.2
5°	418.3	419.2	412.4	414.1	414.1
7.5°	413.3	412.4	403.1	401.5	400.6
10°	404.8	402.3	388.8	386.3	383.7
12.5°	392.2	387.1	372.8	368.6	365.2
15°	376.2	370.2	354.2	347.5	344.1
17.5°	354.2	347.5	332.3	325.5	322.2
20°	328.9	322.2	310.4	302.8	299.4
22.5°	307.8	296.9	284.2	279.2	274.9
25°	282.5	270.7	258.1	253.9	248.8
27.5°	258.9	244.6	231.9	228.6	224.3
30°	236.1	221.0	205.8	205.8	199.9
32.5°	211.7	197.4	181.3	180.5	177.1
35°	188.1	173.7	157.7	156.0	152.7
37.5°	166.1	151.8	136.6	131.6	127.4
40°	141.7	129.0	116.4	108.0	102.9
42.5°	122.3	108.0	95.3	85.2	78.4
45°	97.8	87.7	77.6	64.9	56.5
47.5°	75.9	69.2	60.7	46.4	42.2
50°	55.7	52.3	45.5	34.6	33.7
52.5°	35.4	37.1	32.9	27.0	29.5
55°	16.9	23.6	21.9	22.8	24.5
57.5°	11.0	11.8	16.0	18.6	20.2
60°	8.4	8.4	11.8	15.2	16.9
62.5°	6.7	6.7	9.3	12.7	13.5
65°	5.1	5.9	6.7	9.3	11.0
67.5°	4.2	4.2	5.1	7.6	8.4
70°	3.4	3.4	4.2	5.9	6.7
72.5°	2.5	2.5	3.4	5.1	5.1
75°	1.7	2.5	2.5	3.4	4.2
77.5°	1.7	1.7	1.7	2.5	3.4
80°	0.8	0.8	1.7	1.7	2.5
82.5°	0.8	0.8	0.8	0.8	1.7
85°	0.0	0.0	0.0	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)