

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: P1058092

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1058092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122RDR-S675D935-X4F0-XX-UDD-WVL-B  
Description: DEFINE 2 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

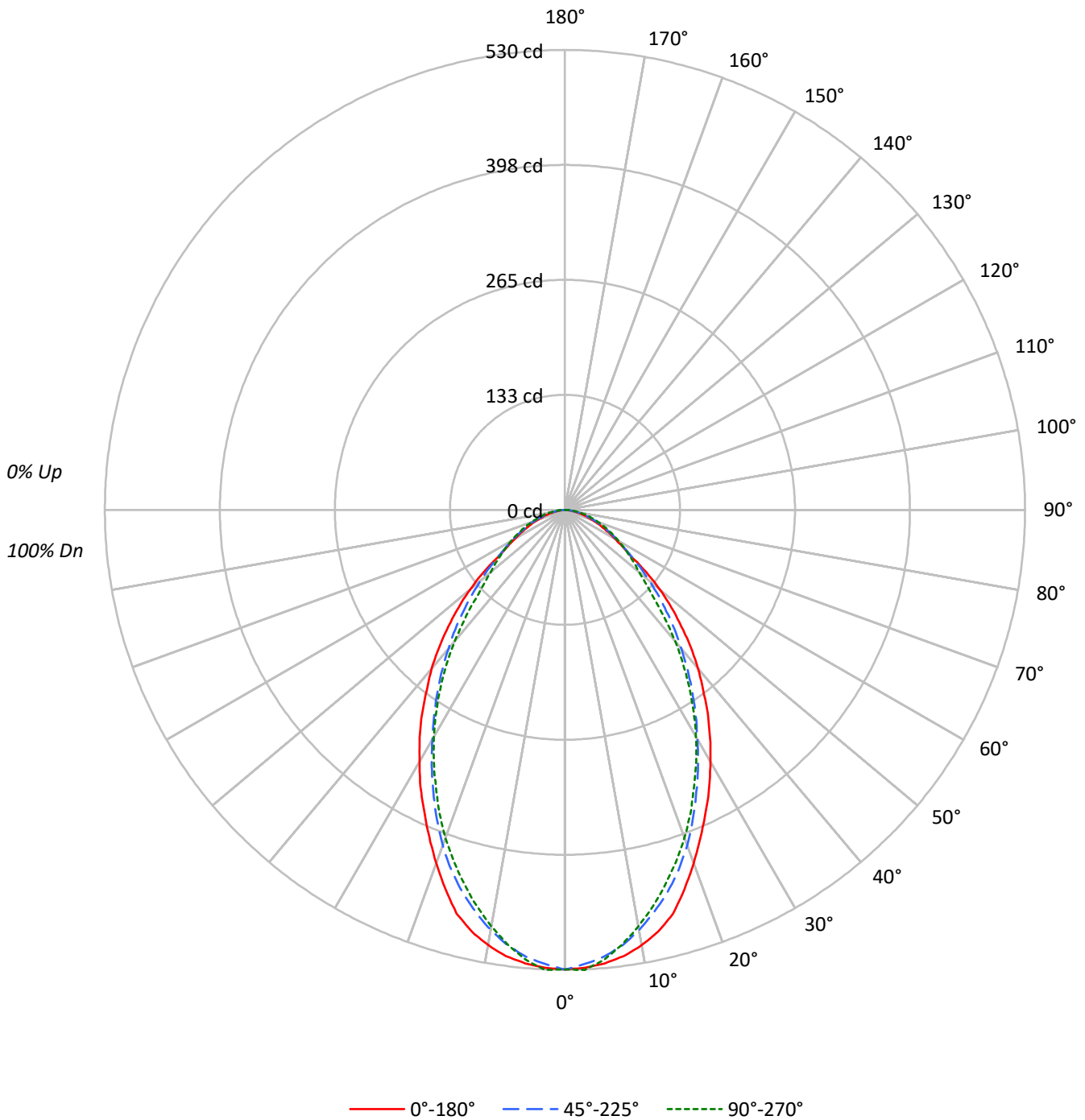
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 804.4 lumens  
Efficiency: N/A  
Efficacy: 31.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 0.92 / 1.02  
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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68				68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61				61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49				49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	44				44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41				41
9	64	52	45	40	63	51	44	39	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34				34

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

	0°	45°	90°
0°	9774	9774	9774
5°	9717	9576	9639
10°	9545	9213	9134
15°	9200	8717	8539
20°	8513	8082	7900
25°	7814	7299	7161
30°	7136	6505	6435
35°	6461	5758	5625
40°	5750	5018	4755
45°	4953	4314	3807
50°	4091	3631	3195
55°	2957	3011	2876
60°	2458	2583	2617
65°	2100	2249	2393
70°	1732	2002	2185
75°	1440	1683	1982
80°	1073	1350	1796
85°	360	720	1609

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4953 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.0	6.1
10°-20°	128.9	16.0
20°-30°	166.9	20.7
30°-40°	163.7	20.3
40°-50°	128.9	16.0
50°-60°	84.5	10.5
60°-70°	51.4	6.4
70°-80°	25.7	3.2
80°-90°	5.5	0.7
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°	344.8	42.9
0°-40°	508.4	63.2
0°-60°	721.8	89.7
0°-90°	804.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	804.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	525	525	517	520	520	50
15°	482	475	456	450	447	134
25°	384	371	358	357	352	176
35°	287	271	256	255	250	179
45°	190	178	165	154	146	146
55°	92	97	94	90	89	87
65°	48	49	52	54	55	48
75°	20	21	24	27	28	22
85°	2	2	3	6	8	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	529.7	529.7	529.7	529.7	529.7
2.5°	528.0	528.8	523.8	528.8	530.5
5°	524.6	524.6	517.0	520.4	520.4
7.5°	518.7	517.9	506.1	506.1	505.2
10°	509.4	506.1	491.7	489.2	487.5
12.5°	497.6	491.7	474.9	470.6	468.1
15°	481.6	474.9	456.3	450.4	447.0
17.5°	458.0	451.2	435.2	428.5	425.1
20°	433.5	423.4	411.6	405.7	402.3
22.5°	408.2	396.4	385.5	381.2	377.9
25°	383.8	371.1	358.5	356.8	351.7
27.5°	360.2	345.0	332.3	331.5	327.3
30°	334.9	318.8	305.3	306.2	302.0
32.5°	311.2	296.1	280.0	280.9	275.8
35°	286.8	270.7	255.6	254.7	249.7
37.5°	261.5	246.3	232.0	228.6	223.5
40°	238.7	223.5	208.3	202.4	197.4
42.5°	214.2	200.7	187.2	178.0	171.2
45°	189.8	178.0	165.3	153.5	145.9
47.5°	166.2	156.9	145.9	131.6	126.5
50°	142.5	135.8	126.5	113.9	111.3
52.5°	118.1	115.6	109.6	101.2	100.4
55°	91.9	97.0	93.6	90.2	89.4
57.5°	77.6	78.4	81.0	80.1	80.1
60°	66.6	66.6	70.0	70.9	70.9
62.5°	56.5	57.4	60.7	62.4	62.4
65°	48.1	48.9	51.5	54.0	54.8
67.5°	39.6	41.3	43.9	46.4	47.2
70°	32.1	33.7	37.1	39.6	40.5
72.5°	26.1	27.0	30.4	32.9	33.7
75°	20.2	21.1	23.6	27.0	27.8
77.5°	14.3	16.0	18.6	21.1	22.8
80°	10.1	11.0	12.7	16.0	16.9
82.5°	5.9	6.7	8.4	11.0	11.8
85°	1.7	2.5	3.4	5.9	7.6
87.5°	0.0	0.0	0.0	1.7	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)