

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: P1060336

Luminaire Tested: S124RDR-S1195D927-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060336  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-39)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S1195D927-X4F0-XX-UDD-BVL-B  
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

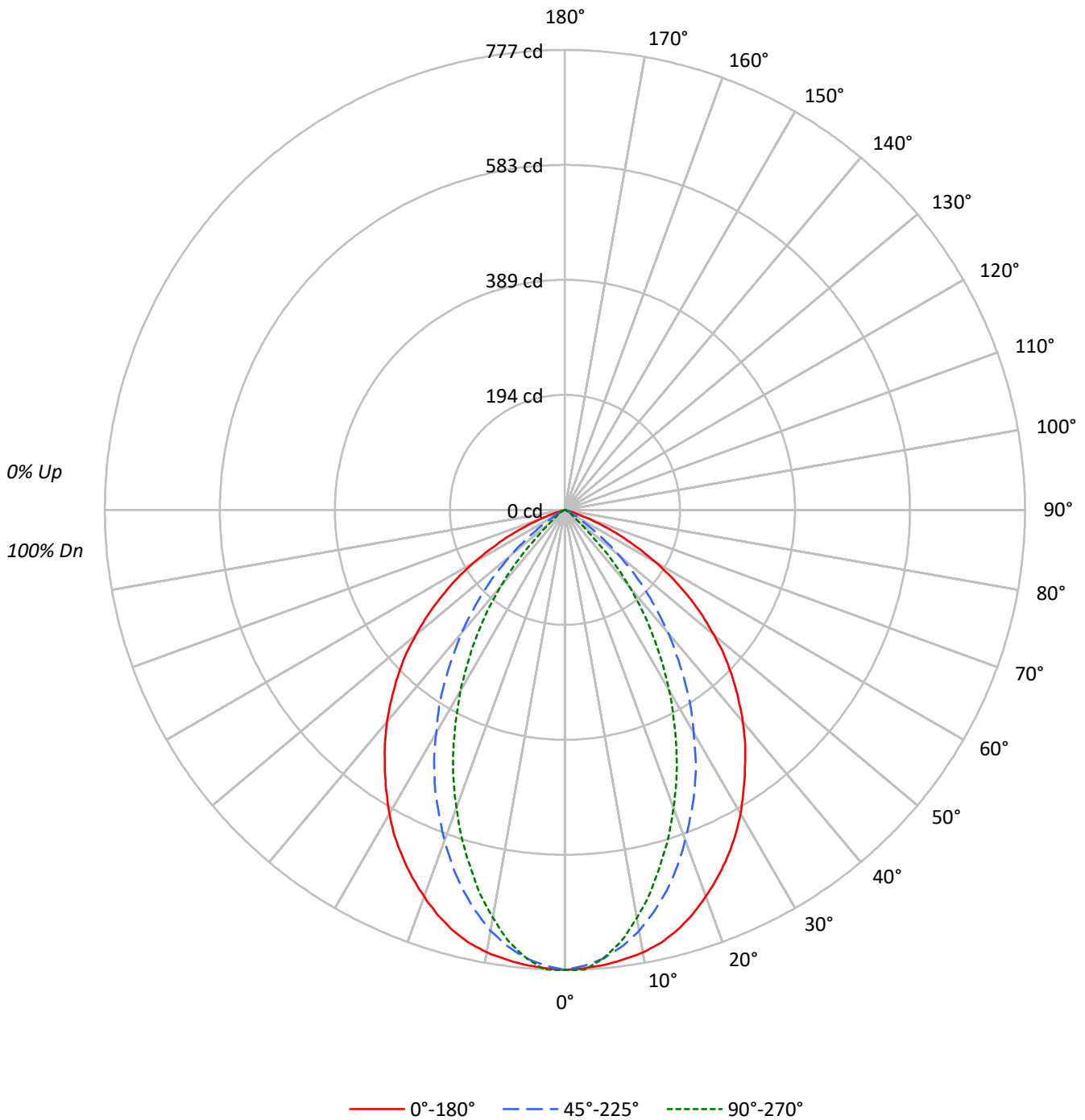
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1014.9 lumens  
Efficiency: N/A  
Efficacy: 24.3 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98  
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82				82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74				74
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66				66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60				60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55				55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50				50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42				42
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39				39

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

	0°	45°	90°
0°	6693	6693	6693
5°	6671	6573	6563
10°	6639	6315	6119
15°	6549	5928	5537
20°	6372	5445	4910
25°	6158	4930	4237
30°	5897	4322	3507
35°	5574	3708	2728
40°	5253	3043	1906
45°	4870	2339	944
50°	4394	1579	316
55°	3794	809	219
60°	3036	289	155
65°	2082	161	69
70°	934	86	55
75°	0	37	37
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4870 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	7.1
10°-20°	188.2	18.5
20°-30°	243.6	24.0
30°-40°	231.4	22.8
40°-50°	163.9	16.1
50°-60°	84.1	8.3
60°-70°	29.4	2.9
70°-80°	2.5	0.2
80°-90°	0.0	0.0
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°	503.5	49.6
0°-40°	735.0	72.4
0°-60°	983.0	96.9
0°-90°	1014.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1014.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	772	773	760	760	759	73
15°	735	712	665	634	621	207
25°	648	598	519	464	446	298
35°	530	453	353	284	260	332
45°	400	308	192	110	78	308
55°	253	166	54	16	15	226
65°	102	49	8	4	3	102
75°	0	1	1	1	1	8
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	777.3	777.3	777.3	777.3	777.3
2.5°	775.0	777.3	770.5	776.2	777.3
5°	771.7	772.8	760.4	760.4	759.3
7.5°	766.0	763.8	743.6	735.7	734.6
10°	759.3	751.4	722.2	705.4	699.8
12.5°	749.2	734.6	695.3	670.6	663.8
15°	734.6	712.1	665.0	633.5	621.1
17.5°	716.6	687.4	631.3	593.1	580.7
20°	695.3	658.2	594.2	551.5	535.8
22.5°	672.8	630.1	556.0	507.7	492.0
25°	648.1	597.6	518.9	463.9	445.9
27.5°	622.3	562.7	478.5	421.2	397.6
30°	593.1	527.9	434.7	375.2	352.7
32.5°	561.6	489.7	395.4	331.4	304.4
35°	530.2	452.7	352.7	284.2	259.5
37.5°	499.8	417.8	310.0	238.1	214.5
40°	467.3	379.7	270.7	196.6	169.6
42.5°	433.6	342.6	230.3	153.9	124.7
45°	399.9	307.8	192.1	110.1	77.5
47.5°	366.2	270.7	155.0	69.6	41.6
50°	328.0	234.8	117.9	37.1	23.6
52.5°	292.0	201.1	84.2	21.3	18.0
55°	252.7	166.2	53.9	15.7	14.6
57.5°	215.7	132.5	30.3	12.4	11.2
60°	176.3	102.2	16.8	10.1	9.0
62.5°	137.0	74.1	11.2	6.7	5.6
65°	102.2	49.4	7.9	4.5	3.4
67.5°	67.4	28.1	5.6	2.2	2.2
70°	37.1	13.5	3.4	2.2	2.2
72.5°	13.5	4.5	2.2	1.1	1.1
75°	0.0	1.1	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	1.1
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)