

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: P1060357

Luminaire Tested: S124RDR-S1195D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S1195D935-X4F0-XX-UDD-SVL-B  
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

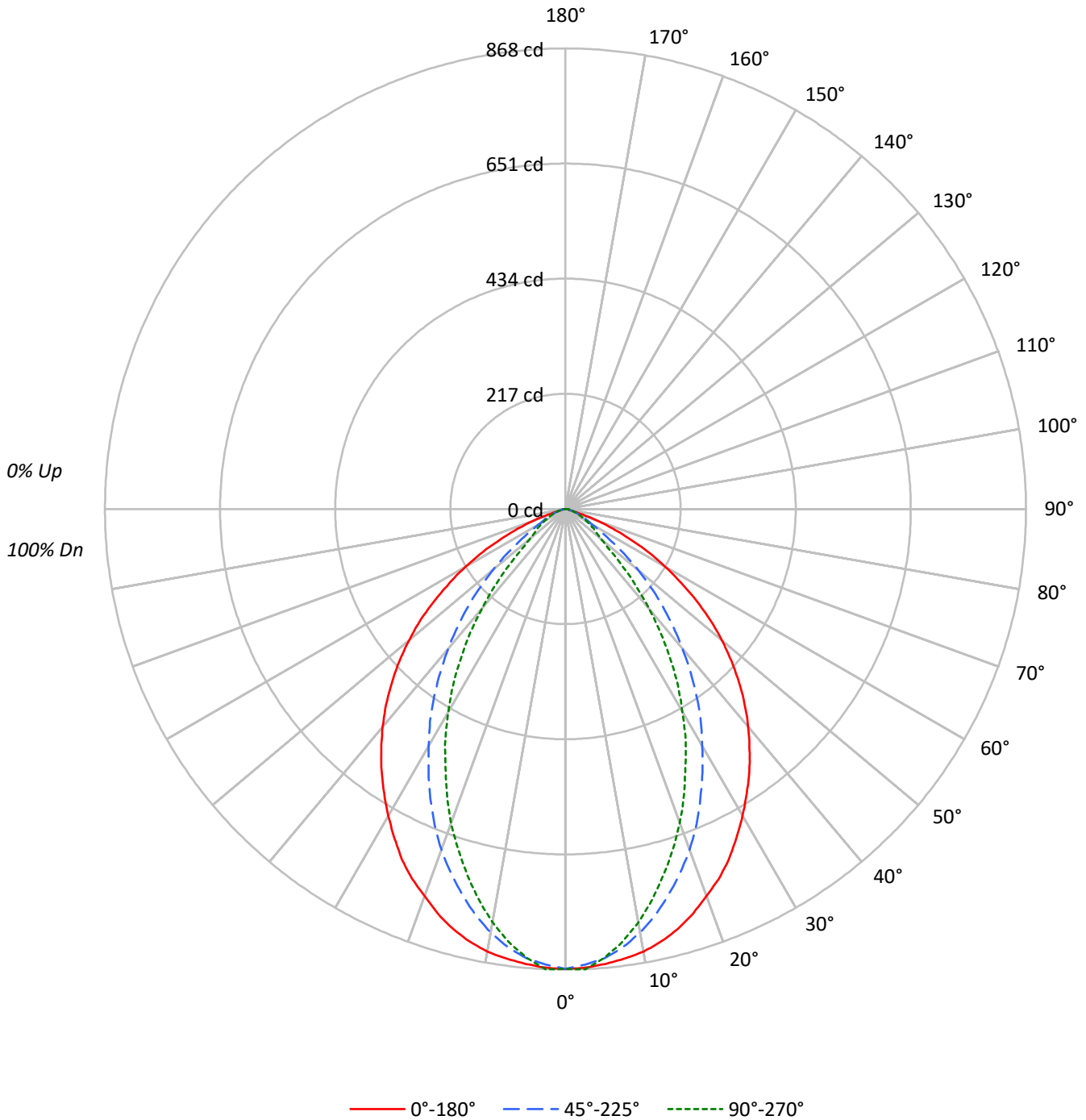
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1277.9 lumens  
Efficiency: N/A  
Efficacy: 30.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	60	71	65	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	7464	7464	7464
5°	7440	7345	7334
10°	7408	7088	6917
15°	7303	6704	6367
20°	7115	6264	5772
25°	6925	5719	5080
30°	6640	5123	4382
35°	6353	4530	3619
40°	6024	3856	2745
45°	5635	3152	1844
50°	5152	2387	1145
55°	4526	1576	971
60°	3742	968	799
65°	2712	746	646
70°	1475	554	491
75°	326	406	446
80°	243	302	362
85°	237	237	366

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5635 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.3	6.3
10°-20°	213.3	16.7
20°-30°	282.6	22.1
30°-40°	280.4	21.9
40°-50°	215.8	16.9
50°-60°	128.6	10.1
60°-70°	58.5	4.6
70°-80°	15.1	1.2
80°-90°	3.4	0.3
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°	576.1	45.1
0°-40°	856.6	67.0
0°-60°	1201.0	94.0
0°-90°	1277.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1277.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	861	862	850	850	848	82
15°	819	798	752	726	714	230
25°	729	676	602	552	535	335
35°	604	529	431	365	344	377
45°	463	372	259	181	151	356
55°	302	215	105	66	65	269
65°	133	79	37	32	32	134
75°	10	12	12	13	13	20
85°	2	2	2	4	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	866.8	866.8	866.8	866.8	866.8
2.5°	865.5	866.8	859.4	865.5	868.0
5°	860.7	861.9	849.7	849.7	848.5
7.5°	854.6	852.1	832.6	825.3	822.8
10°	847.2	838.7	810.6	796.0	791.1
12.5°	835.0	821.6	783.8	763.0	754.5
15°	819.2	798.4	752.0	726.4	714.2
17.5°	799.6	774.0	719.0	686.1	672.7
20°	776.4	742.2	683.6	642.1	629.9
22.5°	754.5	711.7	644.6	597.0	583.5
25°	728.8	676.3	601.9	551.8	534.7
27.5°	698.3	642.1	559.1	507.9	490.8
30°	667.8	605.5	515.2	461.5	440.7
32.5°	636.0	567.7	474.9	413.8	394.3
35°	604.3	528.6	430.9	365.0	344.3
37.5°	570.1	489.5	387.0	318.6	295.4
40°	535.9	451.7	343.0	273.5	244.2
42.5°	500.5	412.6	300.3	227.1	197.8
45°	462.7	372.3	258.8	180.7	151.4
47.5°	424.8	334.5	217.3	135.5	108.7
50°	384.6	294.2	178.2	98.9	85.5
52.5°	344.3	255.1	139.2	76.9	73.2
55°	301.5	214.9	105.0	65.9	64.7
57.5°	257.6	178.2	75.7	57.4	54.9
60°	217.3	144.1	56.2	48.8	46.4
62.5°	175.8	108.7	46.4	40.3	37.8
65°	133.1	79.4	36.6	31.7	31.7
67.5°	96.4	53.7	29.3	25.6	24.4
70°	58.6	33.0	22.0	20.8	19.5
72.5°	29.3	19.5	17.1	15.9	15.9
75°	9.8	12.2	12.2	13.4	13.4
77.5°	7.3	8.5	8.5	9.8	9.8
80°	4.9	6.1	6.1	7.3	7.3
82.5°	3.7	3.7	4.9	4.9	6.1
85°	2.4	2.4	2.4	3.7	3.7
87.5°	1.2	1.2	1.2	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)