

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: P1060337

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)  
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-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

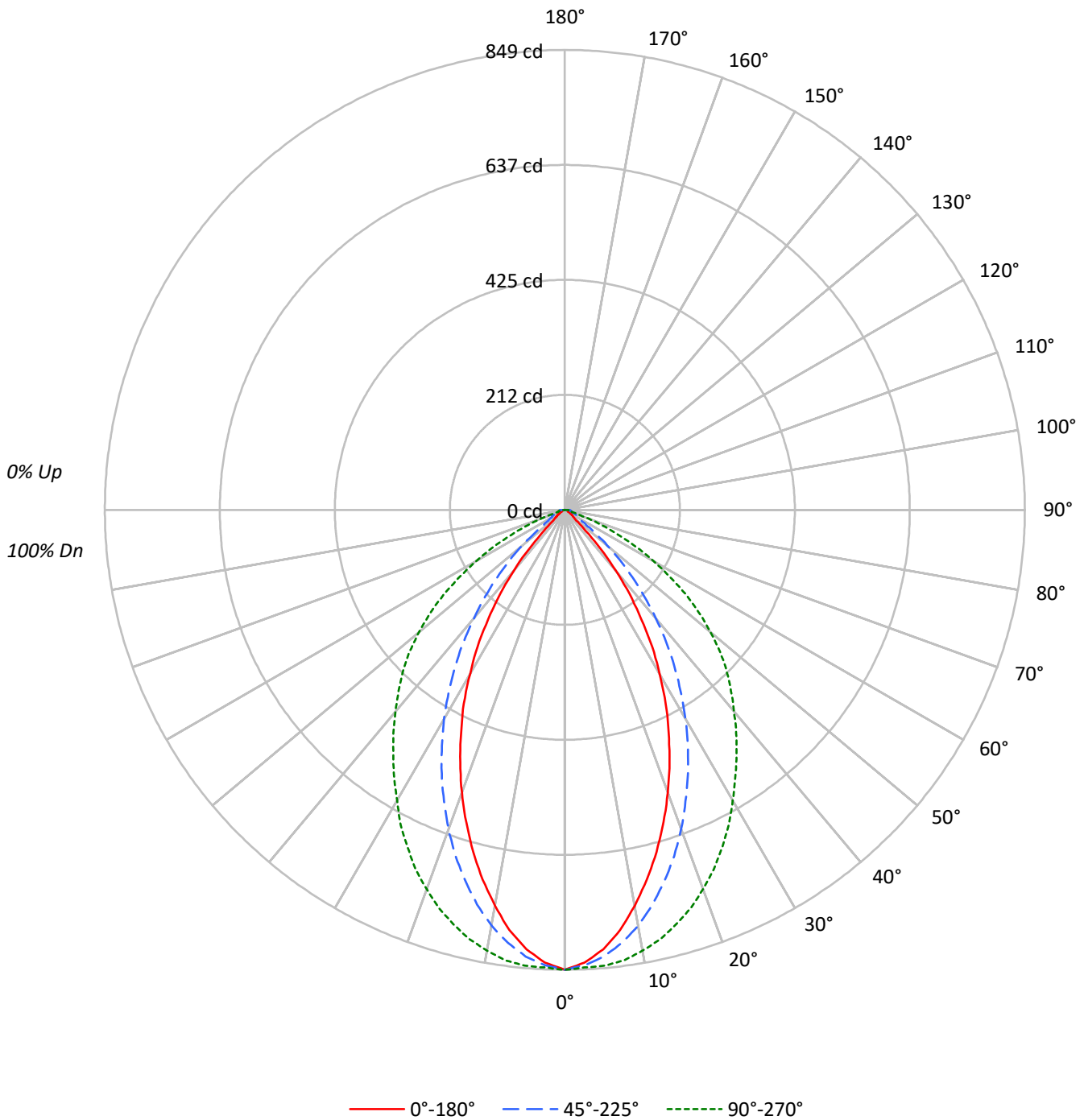
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1065.5 lumens  
Efficiency: N/A  
Efficacy: 25.5 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97  
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	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81				81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73				73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65				65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59				59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50				50
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46				46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39				39

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

	0°	45°	90°
0°	7311	7311	7311
5°	7037	7154	7300
10°	6489	6814	7227
15°	5824	6325	7067
20°	5090	5750	6832
25°	4306	5107	6527
30°	3477	4428	6161
35°	2589	3700	5804
40°	1643	2933	5461
45°	658	2149	5149
50°	287	1370	4700
55°	219	709	4102
60°	155	484	3253
65°	114	481	2223
70°	113	425	1020
75°	150	449	413
80°	223	501	446
85°	445	889	662

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5149 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.7	7.3
10°-20°	200.5	18.8
20°-30°	253.2	23.8
30°-40°	232.5	21.8
40°-50°	158.6	14.9
50°-60°	86.0	8.1
60°-70°	36.5	3.4
70°-80°	12.6	1.2
80°-90°	8.0	0.8
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°	531.3	49.9
0°-40°	763.9	71.7
0°-60°	1008.4	94.6
0°-90°	1065.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1065.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	814	826	828	834	844	75
15°	653	675	710	760	793	182
25°	453	482	538	621	687	207
35°	246	279	352	462	552	153
45°	54	87	176	313	423	50
55°	15	16	47	172	273	13
65°	6	7	24	54	109	6
75°	4	12	14	12	12	5
85°	4	9	9	9	7	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	849.0	849.0	849.0	849.0	849.0
2.5°	836.6	846.7	841.1	843.3	845.6
5°	814.1	826.5	827.6	834.4	844.5
7.5°	782.6	797.2	806.2	823.1	838.8
10°	742.1	760.1	779.3	806.2	826.5
12.5°	699.4	718.5	746.6	784.9	811.9
15°	653.3	674.7	709.5	760.1	792.7
17.5°	605.0	628.6	670.2	729.8	771.4
20°	555.5	581.3	627.5	694.9	745.5
22.5°	504.9	531.9	582.5	658.9	718.5
25°	453.2	482.4	537.5	620.7	687.0
27.5°	403.7	430.7	491.4	582.5	655.6
30°	349.7	380.1	445.3	543.1	619.6
32.5°	300.2	329.5	398.1	502.6	585.8
35°	246.3	278.9	352.0	462.2	552.1
37.5°	195.7	227.1	307.0	423.9	519.5
40°	146.2	178.8	260.9	385.7	485.8
42.5°	97.8	132.7	217.0	346.3	454.3
45°	54.0	86.6	176.5	312.6	422.8
47.5°	28.1	47.2	138.3	278.9	389.1
50°	21.4	25.9	102.3	241.8	350.8
52.5°	18.0	19.1	69.7	204.7	312.6
55°	14.6	15.7	47.2	172.0	273.2
57.5°	11.2	12.4	33.7	140.6	229.4
60°	9.0	10.1	28.1	107.9	188.9
62.5°	6.7	7.9	27.0	79.8	148.4
65°	5.6	6.7	23.6	54.0	109.1
67.5°	4.5	6.7	20.2	34.9	73.1
70°	4.5	9.0	16.9	22.5	40.5
72.5°	4.5	10.1	14.6	14.6	14.6
75°	4.5	12.4	13.5	12.4	12.4
77.5°	4.5	11.2	11.2	11.2	11.2
80°	4.5	10.1	10.1	10.1	9.0
82.5°	4.5	9.0	10.1	10.1	7.9
85°	4.5	9.0	9.0	9.0	6.7
87.5°	3.4	9.0	9.0	9.0	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)