

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060763

Luminaire Tested: S124RDRP-H1195D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1060763  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDRP-H1195D935-X4F0-XX-UDD-SVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

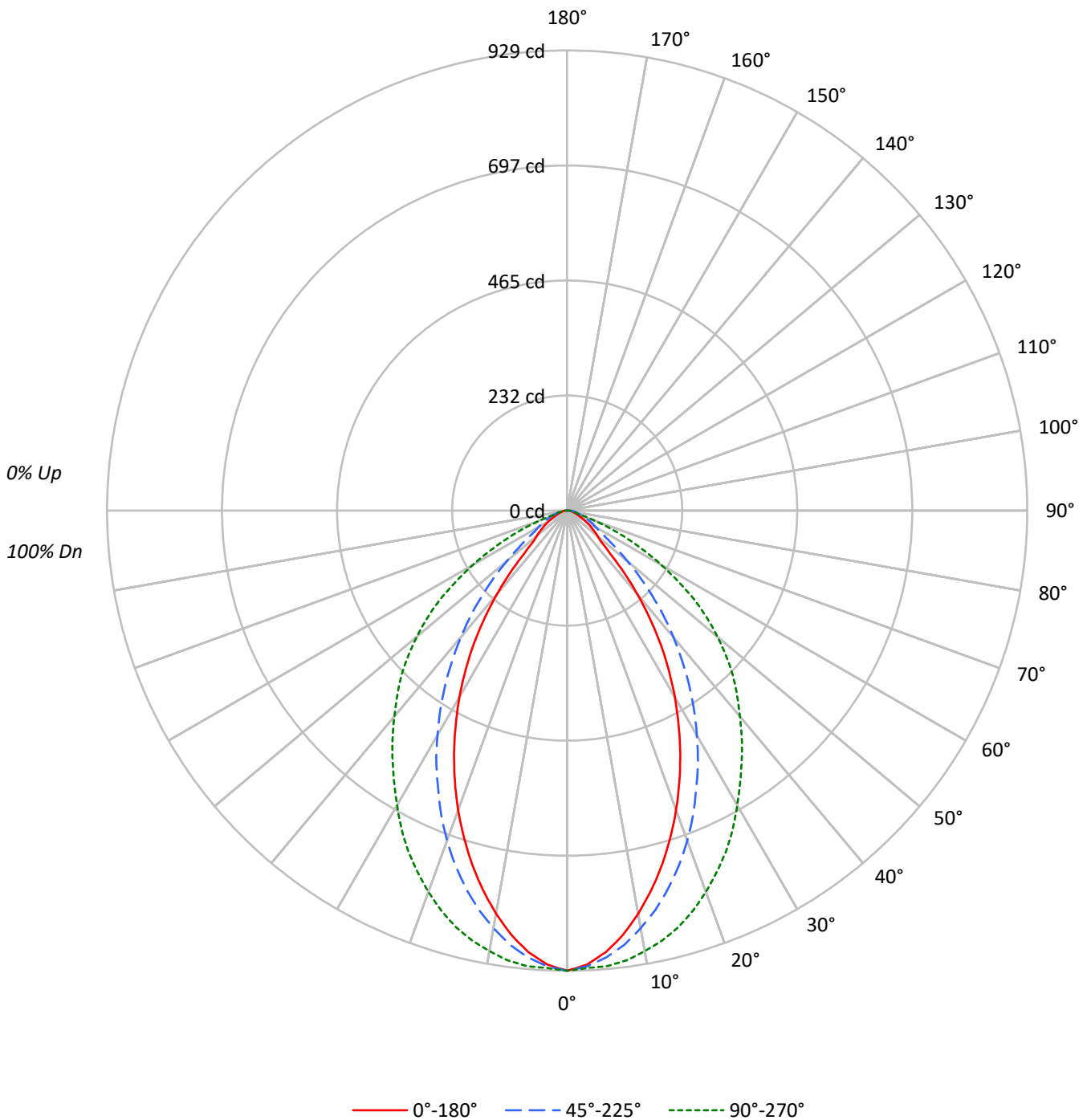
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1306.3 lumens  
Efficiency: N/A  
Efficacy: 35.8 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01  
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	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	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63					63			
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	8000	8000	8000
5°	7735	7826	7979
10°	7224	7482	7896
15°	6596	7039	7755
20°	5892	6499	7506
25°	5133	5862	7210
30°	4325	5206	6828
35°	3454	4511	6461
40°	2484	3747	6098
45°	1497	2951	5772
50°	1077	2138	5305
55°	905	1437	4702
60°	734	1140	3785
65°	579	1035	2722
70°	506	864	1458
75°	472	785	709
80°	471	818	645
85°	701	1166	820

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5772 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	6.5
10°-20°	223.5	17.1
20°-30°	290.0	22.2
30°-40°	278.7	21.3
40°-50°	206.8	15.8
50°-60°	126.7	9.7
60°-70°	61.5	4.7
70°-80°	23.4	1.8
80°-90°	10.5	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°	598.7	45.8
0°-40°	877.4	67.2
0°-60°	1210.8	92.7
0°-90°	1306.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1306.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	895	908	905	914	923	83
15°	740	761	790	837	870	207
25°	540	567	617	696	759	247
35°	329	358	429	531	615	204
45°	123	154	242	370	474	102
55°	60	63	96	216	313	54
65°	28	31	51	80	134	29
75°	14	22	24	21	21	15
85°	7	12	12	11	8	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	929.0	929.0	929.0	929.0	929.0
2.5°	917.2	927.8	920.8	923.1	924.3
5°	894.8	907.8	905.4	913.7	923.1
7.5°	864.0	879.4	884.1	900.7	916.0
10°	826.2	845.1	855.7	882.9	903.0
12.5°	784.8	804.9	825.0	861.7	888.8
15°	739.9	761.2	789.6	836.8	869.9
17.5°	692.6	716.3	750.6	807.3	846.3
20°	643.0	667.8	709.2	771.8	819.1
22.5°	592.2	618.2	664.3	734.0	789.6
25°	540.2	567.3	617.0	696.2	758.8
27.5°	487.0	515.3	572.1	656.0	724.5
30°	435.0	462.1	523.6	614.6	686.7
32.5°	381.8	410.1	476.3	572.1	650.1
35°	328.6	358.1	429.1	530.7	614.6
37.5°	274.2	306.1	380.6	490.5	579.2
40°	221.0	251.8	333.3	449.1	542.5
42.5°	169.0	202.1	288.4	407.8	508.2
45°	122.9	153.7	242.3	370.0	474.0
47.5°	92.2	111.1	199.8	334.5	436.1
50°	80.4	83.9	159.6	295.5	396.0
52.5°	69.7	72.1	124.1	252.9	355.8
55°	60.3	62.6	95.7	216.3	313.2
57.5°	50.8	53.2	76.8	180.8	264.8
60°	42.6	44.9	66.2	144.2	219.8
62.5°	35.5	36.6	59.1	109.9	176.1
65°	28.4	30.7	50.8	80.4	133.6
67.5°	23.6	26.0	41.4	55.6	93.4
70°	20.1	26.0	34.3	39.0	57.9
72.5°	16.5	23.6	28.4	27.2	27.2
75°	14.2	22.5	23.6	21.3	21.3
77.5°	11.8	20.1	18.9	17.7	16.5
80°	9.5	16.5	16.5	14.2	13.0
82.5°	8.3	13.0	13.0	13.0	10.6
85°	7.1	11.8	11.8	10.6	8.3
87.5°	4.7	9.5	10.6	9.5	5.9
90°	0.0	0.0	0.0	0.0	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	7.04	8.38	7.40	8.69	9.00	16.14	17.48	16.50	17.79	18.10
	3H	8.08	9.27	8.46	9.60	9.96	16.64	17.83	17.02	18.16	18.52
	4H	8.60	9.70	9.00	10.05	10.44	16.65	17.76	17.06	18.11	18.49
	6H	9.05	10.06	9.46	10.43	10.83	16.65	17.67	17.07	18.04	18.43
	8H	9.24	10.20	9.67	10.59	11.00	16.65	17.61	17.08	18.00	18.41
	12H	9.45	10.38	9.89	10.76	11.19	16.65	17.57	17.08	17.95	18.38
4H	2H	8.13	9.24	8.53	9.59	9.97	16.03	17.13	16.43	17.48	17.87
	3H	9.40	10.31	9.81	10.71	11.11	16.60	17.51	17.02	17.91	18.32
	4H	10.11	10.92	10.54	11.34	11.78	16.65	17.46	17.09	17.88	18.32
	6H	10.74	11.44	11.20	11.88	12.35	16.70	17.40	17.17	17.85	18.31
	8H	10.98	11.64	11.45	12.09	12.56	16.72	17.37	17.19	17.82	18.29
	12H	11.26	11.84	11.75	12.32	12.80	16.75	17.33	17.24	17.81	18.29
8H	4H	10.53	11.19	11.00	11.64	12.11	16.60	17.25	17.07	17.70	18.17
	6H	11.41	11.95	11.91	12.44	12.92	16.69	17.23	17.20	17.72	18.21
	8H	11.82	12.30	12.34	12.81	13.30	16.75	17.24	17.28	17.75	18.24
	12H	12.30	12.72	12.81	13.22	13.79	16.85	17.28	17.37	17.77	18.34
12H	4H	10.58	11.16	11.06	11.64	12.11	16.57	17.15	17.06	17.63	18.11
	6H	11.52	12.00	12.04	12.52	13.01	16.67	17.15	17.19	17.67	18.16
	8H	12.04	12.47	12.55	12.96	13.53	16.78	17.20	17.29	17.70	18.27