

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: P1060376

Luminaire Tested: S124RDRP-S1195D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1060376  
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-S1195D950-X4F0-XX-UDD-SVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

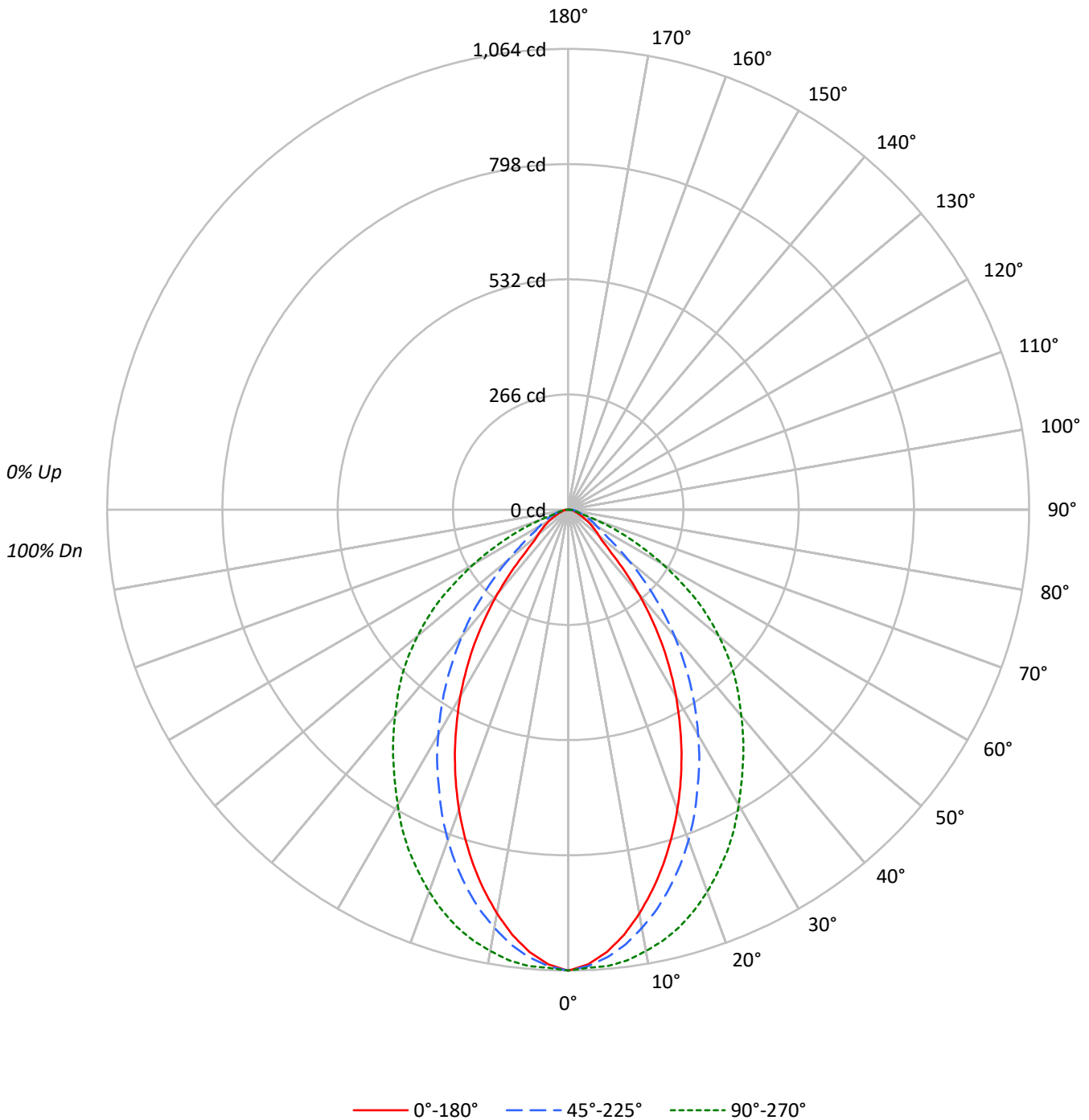
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1496.3 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): 41.8  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63
5	84	73	66	61	82	72	65	60	70	64	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	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	9163	9163	9163
5°	8859	8965	9140
10°	8275	8571	9045
15°	7555	8063	8883
20°	6749	7444	8597
25°	5878	6715	8259
30°	4954	5964	7821
35°	3957	5167	7401
40°	2846	4292	6985
45°	1715	3379	6611
50°	1234	2449	6075
55°	1036	1647	5387
60°	839	1305	4337
65°	662	1186	3117
70°	579	989	1669
75°	539	902	812
80°	536	942	739
85°	800	1334	939

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6611 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.7	6.5
10°-20°	256.0	17.1
20°-30°	332.1	22.2
30°-40°	319.2	21.3
40°-50°	236.9	15.8
50°-60°	145.1	9.7
60°-70°	70.5	4.7
70°-80°	26.8	1.8
80°-90°	12.1	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°	685.8	45.8
0°-40°	1005.0	67.2
0°-60°	1387.0	92.7
0°-90°	1496.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1496.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1025	1040	1037	1046	1057	95
15°	848	872	904	958	996	237
25°	619	650	707	797	869	283
35°	376	410	492	608	704	233
45°	141	176	278	424	543	117
55°	69	72	110	248	359	62
65°	32	35	58	92	153	34
75°	16	26	27	24	24	17
85°	8	14	14	12	10	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1064.1	1064.1	1064.1	1064.1	1064.1
2.5°	1050.6	1062.8	1054.7	1057.4	1058.7
5°	1024.9	1039.8	1037.1	1046.5	1057.4
7.5°	989.7	1007.3	1012.7	1031.7	1049.3
10°	946.4	968.0	980.2	1011.3	1034.4
12.5°	899.0	922.0	945.0	987.0	1018.1
15°	847.5	871.9	904.4	958.5	996.4
17.5°	793.4	820.4	859.7	924.7	969.4
20°	736.5	764.9	812.3	884.1	938.2
22.5°	678.3	708.1	760.9	840.8	904.4
25°	618.7	649.9	706.7	797.4	869.2
27.5°	557.8	590.3	655.3	751.4	829.9
30°	498.2	529.4	599.8	704.0	786.6
32.5°	437.3	469.8	545.6	655.3	744.6
35°	376.4	410.2	491.5	607.9	704.0
37.5°	314.1	350.7	435.9	561.9	663.4
40°	253.2	288.4	381.8	514.5	621.4
42.5°	193.6	231.5	330.3	467.1	582.2
45°	140.8	176.0	277.5	423.8	542.9
47.5°	105.6	127.3	228.8	383.1	499.6
50°	92.1	96.1	182.8	338.5	453.5
52.5°	79.9	82.6	142.2	289.7	407.5
55°	69.0	71.8	109.7	247.8	358.8
57.5°	58.2	60.9	88.0	207.1	303.3
60°	48.7	51.4	75.8	165.2	251.8
62.5°	40.6	42.0	67.7	125.9	201.7
65°	32.5	35.2	58.2	92.1	153.0
67.5°	27.1	29.8	47.4	63.6	107.0
70°	23.0	29.8	39.3	44.7	66.3
72.5°	19.0	27.1	32.5	31.1	31.1
75°	16.2	25.7	27.1	24.4	24.4
77.5°	13.5	23.0	21.7	20.3	19.0
80°	10.8	19.0	19.0	16.2	14.9
82.5°	9.5	14.9	14.9	14.9	12.2
85°	8.1	13.5	13.5	12.2	9.5
87.5°	5.4	10.8	12.2	10.8	6.8
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	7.51	8.85	7.87	9.16	9.47	16.61	17.95	16.97	18.26	18.57
	3H	8.55	9.74	8.93	10.07	10.43	17.11	18.30	17.49	18.63	18.99
	4H	9.07	10.17	9.47	10.52	10.91	17.12	18.23	17.53	18.58	18.96
	6H	9.52	10.53	9.93	10.90	11.30	17.12	18.14	17.54	18.51	18.90
	8H	9.71	10.67	10.14	11.06	11.47	17.12	18.08	17.55	18.47	18.88
	12H	9.92	10.84	10.35	11.23	11.66	17.12	18.04	17.55	18.42	18.85
4H	2H	8.60	9.71	9.00	10.06	10.44	16.50	17.60	16.90	17.95	18.34
	3H	9.87	10.78	10.29	11.18	11.59	17.08	17.98	17.49	18.38	18.79
	4H	10.58	11.39	11.01	11.81	12.25	17.12	17.93	17.56	18.35	18.79
	6H	11.21	11.91	11.67	12.35	12.82	17.18	17.87	17.64	18.32	18.79
	8H	11.45	12.11	11.92	12.55	13.03	17.19	17.85	17.66	18.29	18.76
	12H	11.73	12.31	12.22	12.79	13.26	17.23	17.80	17.71	18.29	18.76
8H	4H	11.01	11.66	11.47	12.11	12.58	17.07	17.73	17.54	18.17	18.64
	6H	11.88	12.42	12.39	12.92	13.40	17.17	17.70	17.67	18.20	18.68
	8H	12.29	12.77	12.81	13.29	13.78	17.23	17.71	17.75	18.22	18.71
	12H	12.77	13.19	13.28	13.69	14.26	17.33	17.75	17.84	18.25	18.82
12H	4H	11.05	11.63	11.54	12.11	12.58	17.04	17.62	17.53	18.11	18.58
	6H	12.00	12.48	12.52	12.99	13.48	17.14	17.63	17.67	18.14	18.63
	8H	12.51	12.94	13.03	13.43	14.00	17.25	17.68	17.76	18.17	18.74