

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: P1060345

Luminaire Tested: S124RDRP-S1195D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1060345  
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: S124RDRP-S1195D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

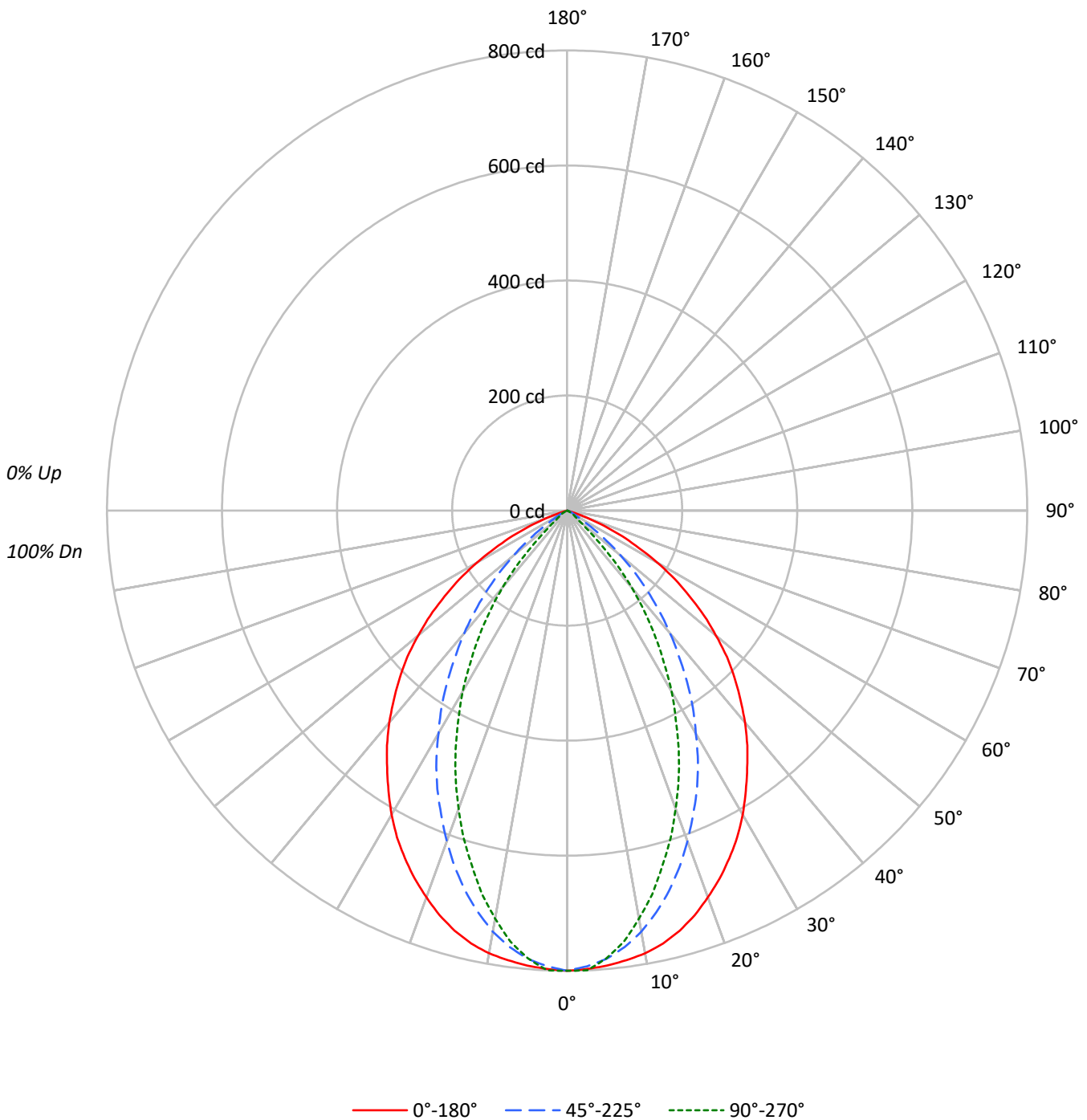
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1044.6 lumens  
Efficiency: N/A  
Efficacy: 25.0 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 (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

TEST NUMBER: P1060345

CATALOG NUMBER: S124RDRP-S1195D930-X4F0-XX-UDD-BVL-B

### Luminous Intensity Polar Plot





TEST NUMBER: P1060345

CATALOG NUMBER: S124RDRP-S1195D930-X4F0-XX-UDD-BVL-B

**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	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39

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

	0°	45°	90°
0°	6889	6889	6889
5°	6865	6765	6755
10°	6833	6499	6297
15°	6740	6101	5699
20°	6558	5604	5053
25°	6337	5075	4360
30°	6069	4449	3609
35°	5735	3816	2807
40°	5406	3132	1963
45°	5011	2408	972
50°	4523	1626	326
55°	3905	833	225
60°	3126	298	158
65°	2144	165	71
70°	959	88	58
75°	0	40	40
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5011 cd/sqm

TEST NUMBER: P1060345

CATALOG NUMBER: S124RDRP-S1195D930-X4F0-XX-UDD-BVL-B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	7.1
10°-20°	193.6	18.5
20°-30°	250.7	24.0
30°-40°	238.2	22.8
40°-50°	168.7	16.1
50°-60°	86.6	8.3
60°-70°	30.3	2.9
70°-80°	2.6	0.3
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°	518.2	49.6
0°-40°	756.4	72.4
0°-60°	1011.7	96.8
0°-90°	1044.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1044.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	794	795	783	783	782	75
15°	756	733	684	652	639	213
25°	667	615	534	477	459	307
35°	546	466	363	292	267	341
45°	412	317	198	113	80	317
55°	260	171	56	16	15	232
65°	105	51	8	5	4	105
75°	0	1	1	1	1	9
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P1060345

CATALOG NUMBER: S124RDRP-S1195D930-X4F0-XX-UDD-BVL-B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	800.0	800.0	800.0	800.0	800.0
2.5°	797.6	800.0	793.0	798.8	800.0
5°	794.2	795.3	782.6	782.6	781.5
7.5°	788.4	786.1	765.3	757.2	756.0
10°	781.5	773.4	743.3	726.0	720.2
12.5°	771.1	756.0	715.6	690.1	683.2
15°	756.0	732.9	684.4	652.0	639.3
17.5°	737.5	707.5	649.7	610.4	597.7
20°	715.6	677.4	611.5	567.6	551.4
22.5°	692.5	648.5	572.2	522.5	506.3
25°	667.0	615.0	534.1	477.4	458.9
27.5°	640.4	579.2	492.5	433.5	409.2
30°	610.4	543.3	447.4	386.1	363.0
32.5°	578.0	504.0	406.9	341.0	313.3
35°	545.6	465.9	363.0	292.5	267.0
37.5°	514.4	430.0	319.1	245.1	220.8
40°	480.9	390.7	278.6	202.3	174.6
42.5°	446.2	352.6	237.0	158.4	128.3
45°	411.5	316.7	197.7	113.3	79.8
47.5°	376.9	278.6	159.5	71.7	42.8
50°	337.6	241.6	121.4	38.1	24.3
52.5°	300.6	206.9	86.7	22.0	18.5
55°	260.1	171.1	55.5	16.2	15.0
57.5°	222.0	136.4	31.2	12.7	11.6
60°	181.5	105.2	17.3	10.4	9.2
62.5°	141.0	76.3	11.6	6.9	5.8
65°	105.2	50.9	8.1	4.6	3.5
67.5°	69.4	28.9	5.8	2.3	2.3
70°	38.1	13.9	3.5	2.3	2.3
72.5°	13.9	4.6	2.3	1.2	1.2
75°	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	1.2
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

TEST NUMBER: P1060345  
 CATALOG NUMBER: S124RDRP-S1195D930-X4F0-XX-UDD-BVL-B

**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	15.23	16.49	15.60	16.80	17.12	0.00	0.00	0.00	0.00	0.00
	3H	15.51	16.62	15.89	16.95	17.31	0.00	0.00	0.00	0.00	0.00
	4H	15.43	16.46	15.84	16.81	17.20	0.00	0.00	0.00	0.00	0.00
	6H	15.35	16.29	15.76	16.66	17.05	0.00	0.00	0.00	0.00	0.00
	8H	15.30	16.19	15.73	16.58	16.99	0.00	0.00	0.00	0.00	0.00
	12H	15.26	16.10	15.69	16.49	16.92	0.00	0.00	0.00	0.00	0.00
4H	2H	15.01	16.03	15.41	16.38	16.77	0.00	0.00	0.00	0.00	0.12
	3H	15.29	16.12	15.70	16.52	16.93	0.00	0.00	0.00	0.00	0.13
	4H	15.20	15.93	15.63	16.35	16.80	0.00	0.00	0.00	0.00	0.09
	6H	15.11	15.74	15.58	16.19	16.66	0.00	0.00	0.00	0.00	0.00
	8H	15.05	15.64	15.52	16.09	16.56	0.00	0.00	0.00	0.00	0.00
	12H	15.00	15.51	15.49	16.00	16.47	0.00	0.00	0.00	0.00	0.00
8H	4H	15.05	15.64	15.52	16.09	16.56	0.00	0.00	0.00	0.00	0.06
	6H	14.94	15.42	15.45	15.92	16.40	0.00	0.00	0.00	0.00	0.00
	8H	14.87	15.30	15.40	15.82	16.31	0.00	0.00	0.00	0.00	0.00
	12H	14.82	15.20	15.34	15.70	16.27	0.00	0.00	0.00	0.00	0.00
12H	4H	15.00	15.51	15.49	16.00	16.47	0.00	0.00	0.00	0.00	0.00
	6H	14.87	15.30	15.40	15.82	16.31	0.00	0.00	0.00	0.00	0.00
	8H	14.82	15.20	15.34	15.70	16.27	0.00	0.00	0.00	0.00	0.00