

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: P1060348

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1060348  
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: S124RDRP-S1195D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

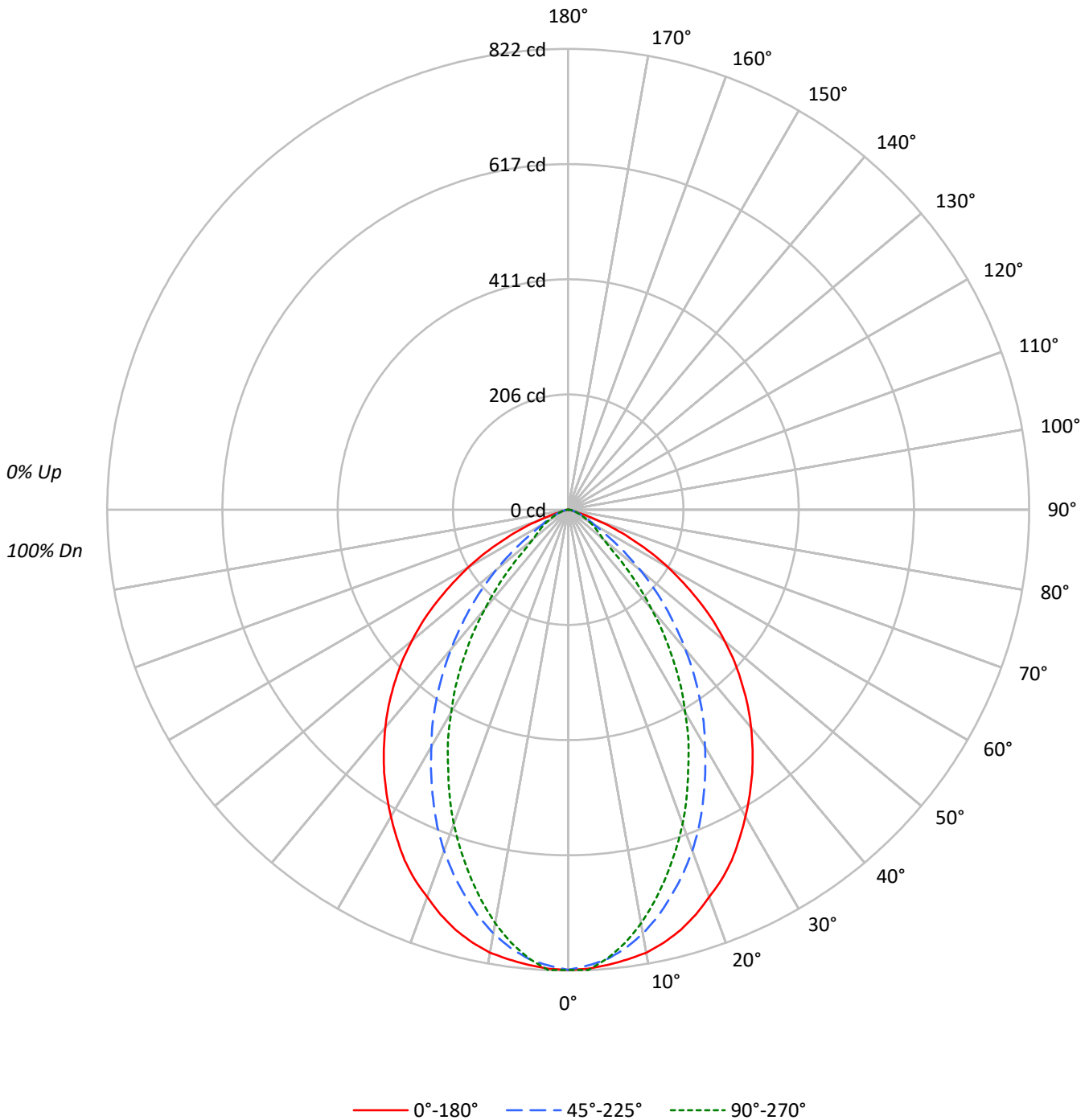
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1210.1 lumens  
Efficiency: N/A  
Efficacy: 29.0 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 (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	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°	7068	7068	7068
5°	7045	6955	6945
10°	7015	6712	6550
15°	6915	6348	6029
20°	6737	5933	5466
25°	6557	5415	4811
30°	6287	4850	4149
35°	6015	4290	3427
40°	5705	3651	2599
45°	5335	2985	1745
50°	4878	2261	1084
55°	4286	1492	920
60°	3544	916	756
65°	2567	707	613
70°	1397	524	466
75°	306	386	423
80°	228	288	342
85°	227	227	346

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5335 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.0	6.3
10°-20°	202.0	16.7
20°-30°	267.6	22.1
30°-40°	265.5	21.9
40°-50°	204.3	16.9
50°-60°	121.8	10.1
60°-70°	55.4	4.6
70°-80°	14.3	1.2
80°-90°	3.2	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°	545.6	45.1
0°-40°	811.1	67.0
0°-60°	1137.2	94.0
0°-90°	1210.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1210.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	815	816	805	805	803	77
15°	776	756	712	688	676	218
25°	690	640	570	522	506	317
35°	572	500	408	346	326	357
45°	438	353	245	171	143	337
55°	286	204	99	62	61	254
65°	126	75	35	30	30	127
75°	9	12	12	13	13	19
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°	820.8	820.8	820.8	820.8	820.8
2.5°	819.6	820.8	813.8	819.6	821.9
5°	815.0	816.1	804.6	804.6	803.4
7.5°	809.2	806.9	788.4	781.5	779.1
10°	802.3	794.2	767.6	753.7	749.1
12.5°	790.7	778.0	742.2	722.5	714.4
15°	775.7	756.0	712.1	687.8	676.3
17.5°	757.2	732.9	680.9	649.7	637.0
20°	735.2	702.8	647.4	608.1	596.5
22.5°	714.4	673.9	610.4	565.3	552.6
25°	690.1	640.4	569.9	522.5	506.3
27.5°	661.2	608.1	529.4	480.9	464.7
30°	632.3	573.4	487.8	437.0	417.3
32.5°	602.3	537.5	449.7	391.9	373.4
35°	572.2	500.5	408.1	345.6	326.0
37.5°	539.9	463.6	366.5	301.7	279.8
40°	507.5	427.7	324.8	258.9	231.2
42.5°	474.0	390.7	284.4	215.0	187.3
45°	438.1	352.6	245.1	171.1	143.3
47.5°	402.3	316.7	205.8	128.3	102.9
50°	364.1	278.6	168.8	93.6	80.9
52.5°	326.0	241.6	131.8	72.8	69.4
55°	285.5	203.5	99.4	62.4	61.3
57.5°	243.9	168.8	71.7	54.3	52.0
60°	205.8	136.4	53.2	46.2	43.9
62.5°	166.5	102.9	43.9	38.1	35.8
65°	126.0	75.1	34.7	30.1	30.1
67.5°	91.3	50.9	27.7	24.3	23.1
70°	55.5	31.2	20.8	19.7	18.5
72.5°	27.7	18.5	16.2	15.0	15.0
75°	9.2	11.6	11.6	12.7	12.7
77.5°	6.9	8.1	8.1	9.2	9.2
80°	4.6	5.8	5.8	6.9	6.9
82.5°	3.5	3.5	4.6	4.6	5.8
85°	2.3	2.3	2.3	3.5	3.5
87.5°	1.2	1.2	1.2	2.3	2.3
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	15.91	17.25	16.28	17.56	17.88	7.46	8.79	7.82	9.11	9.42
	3H	16.42	17.60	16.80	17.93	18.30	8.28	9.46	8.66	9.79	10.15
	4H	16.39	17.49	16.79	17.84	18.22	8.56	9.66	8.96	10.01	10.39
	6H	16.32	17.33	16.74	17.70	18.10	8.73	9.74	9.14	10.11	10.50
	8H	16.29	17.24	16.72	17.63	18.04	8.79	9.75	9.22	10.14	10.54
	12H	16.25	17.16	16.68	17.54	17.97	8.84	9.75	9.27	10.13	10.56
4H	2H	15.76	16.85	16.16	17.20	17.59	7.90	9.00	8.30	9.35	9.73
	3H	16.31	17.20	16.72	17.61	18.01	8.87	9.76	9.28	10.16	10.57
	4H	16.28	17.07	16.71	17.49	17.94	9.23	10.03	9.66	10.45	10.89
	6H	16.23	16.91	16.69	17.36	17.82	9.48	10.16	9.94	10.61	11.08
	8H	16.18	16.82	16.65	17.27	17.74	9.57	10.21	10.04	10.65	11.12
	12H	16.14	16.71	16.63	17.19	17.66	9.64	10.21	10.13	10.69	11.17
8H	4H	16.17	16.81	16.64	17.26	17.73	9.32	9.96	9.79	10.41	10.88
	6H	16.11	16.63	16.61	17.12	17.61	9.63	10.15	10.13	10.64	11.13
	8H	16.06	16.53	16.58	17.04	17.54	9.76	10.23	10.28	10.74	11.23
	12H	16.03	16.44	16.54	16.94	17.51	9.90	10.31	10.41	10.80	11.38
12H	4H	16.13	16.69	16.61	17.17	17.65	9.29	9.86	9.78	10.34	10.81
	6H	16.05	16.52	16.57	17.04	17.53	9.61	10.07	10.13	10.59	11.08
	8H	16.02	16.44	16.54	16.93	17.51	9.78	10.19	10.29	10.68	11.26