

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: P1060779

Luminaire Tested: S124RDRP-H1195D950-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1060779  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-75)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDRP-H1195D950-X4F0-XX-UDD-BVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

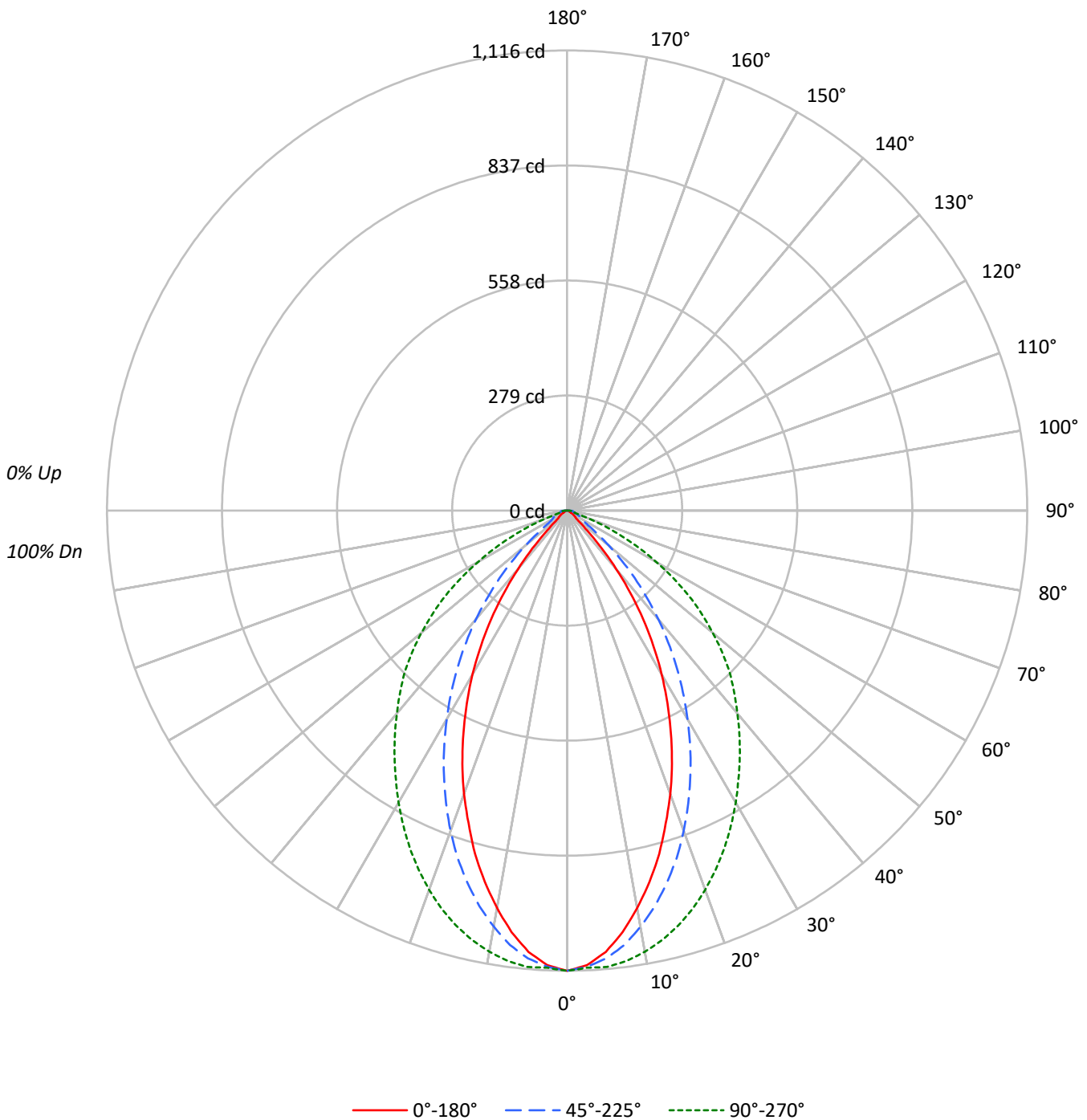
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1406.9 lumens  
Efficiency: N/A  
Efficacy: 38.5 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): 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	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	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39

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

	0°	45°	90°
0°	9613	9613	9613
5°	9287	9423	9604
10°	8558	8959	9497
15°	7686	8328	9286
20°	6700	7576	8969
25°	5651	6722	8577
30°	4560	5810	8130
35°	3374	4862	7672
40°	2091	3874	7217
45°	829	2824	6797
50°	368	1772	6178
55°	296	925	5409
60°	203	699	4309
65°	134	695	2963
70°	131	627	1385
75°	173	609	609
80°	258	714	714
85°	514	1423	1037

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6797 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	7.3
10°-20°	264.3	18.8
20°-30°	333.6	23.7
30°-40°	306.0	21.8
40°-50°	208.4	14.8
50°-60°	113.5	8.1
60°-70°	49.1	3.5
70°-80°	17.9	1.3
80°-90°	11.5	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°	700.3	49.8
0°-40°	1006.3	71.5
0°-60°	1328.3	94.4
0°-90°	1406.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1406.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1074	1089	1090	1102	1111	99
15°	862	892	934	1001	1042	240
25°	595	637	708	820	903	272
35°	321	368	462	609	730	198
45°	68	114	232	411	558	63
55°	20	21	62	227	360	18
65°	7	9	34	71	145	8
75°	5	17	18	18	18	6
85°	5	12	14	14	10	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1116.3	1116.3	1116.3	1116.3	1116.3
2.5°	1103.2	1116.3	1107.1	1109.7	1109.7
5°	1074.4	1088.8	1090.1	1101.9	1111.0
7.5°	1031.1	1052.1	1062.6	1086.1	1101.9
10°	978.7	1003.6	1024.6	1065.2	1086.1
12.5°	922.4	951.2	982.6	1036.4	1066.5
15°	862.1	892.2	934.2	1001.0	1041.6
17.5°	795.3	832.0	883.1	963.0	1012.8
20°	731.1	767.8	826.7	917.1	978.7
22.5°	664.3	702.3	767.8	868.7	942.0
25°	594.8	636.8	707.5	820.2	902.7
27.5°	526.7	571.2	645.9	769.1	860.8
30°	458.6	503.1	584.3	716.7	817.6
32.5°	389.1	435.0	522.8	661.6	773.0
35°	321.0	368.2	462.5	609.2	729.8
37.5°	251.6	301.3	402.2	558.1	686.5
40°	186.0	235.8	344.6	507.0	642.0
42.5°	124.5	174.3	285.6	457.3	600.1
45°	68.1	114.0	231.9	411.4	558.1
47.5°	36.7	62.9	179.5	366.9	511.0
50°	27.5	34.1	132.3	319.7	461.2
52.5°	23.6	26.2	91.7	269.9	411.4
55°	19.7	21.0	61.6	226.7	360.3
57.5°	15.7	17.0	45.9	183.4	305.3
60°	11.8	14.4	40.6	141.5	250.2
62.5°	9.2	11.8	38.0	103.5	197.8
65°	6.6	9.2	34.1	70.8	145.4
67.5°	6.6	10.5	28.8	45.9	98.3
70°	5.2	14.4	24.9	30.1	55.0
72.5°	5.2	15.7	21.0	21.0	21.0
75°	5.2	17.0	18.3	18.3	18.3
77.5°	5.2	15.7	17.0	15.7	15.7
80°	5.2	14.4	14.4	14.4	14.4
82.5°	5.2	13.1	14.4	14.4	11.8
85°	5.2	11.8	14.4	14.4	10.5
87.5°	3.9	11.8	13.1	13.1	7.9
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	0.00	0.16	0.00	0.47	0.79	16.27	17.55	16.64	17.86	18.18
	3H	0.32	1.45	0.70	1.78	2.15	16.65	17.78	17.03	18.11	18.47
	4H	1.53	2.59	1.94	2.94	3.32	16.63	17.68	17.03	18.03	18.41
	6H	2.71	3.68	3.13	4.05	4.44	16.61	17.58	17.03	17.95	18.34
	8H	3.30	4.21	3.73	4.60	5.01	16.61	17.53	17.04	17.92	18.32
	12H	3.97	4.84	4.40	5.22	5.65	16.63	17.50	17.06	17.88	18.31
4H	2H	2.52	3.57	2.92	3.92	4.30	16.08	17.13	16.48	17.48	17.87
	3H	4.10	4.96	4.51	5.36	5.77	16.50	17.36	16.91	17.76	18.17
	4H	5.39	6.16	5.82	6.58	7.02	16.50	17.27	16.94	17.69	18.13
	6H	6.51	7.18	6.98	7.62	8.09	16.54	17.20	17.00	17.65	18.12
	8H	7.02	7.64	7.49	8.09	8.56	16.57	17.18	17.04	17.63	18.10
	12H	7.57	8.11	8.06	8.60	9.07	16.63	17.18	17.12	17.66	18.14
8H	4H	6.47	7.09	6.94	7.54	8.01	16.41	17.03	16.88	17.47	17.95
	6H	8.01	8.52	8.52	9.02	9.50	16.49	16.99	16.99	17.49	17.97
	8H	8.82	9.28	9.34	9.79	10.28	16.57	17.03	17.09	17.54	18.03
	12H	9.65	10.05	10.17	10.55	11.12	16.74	17.14	17.26	17.64	18.21
12H	4H	6.66	7.21	7.15	7.69	8.17	16.37	16.92	16.86	17.40	17.88
	6H	8.37	8.82	8.89	9.34	9.83	16.46	16.92	16.98	17.43	17.92
	8H	9.38	9.78	9.90	10.28	10.85	16.60	17.00	17.11	17.50	18.07