

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: P1060755

Luminaire Tested: S124RDRP-H1195D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1060755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDRP-H1195D930-X4F0-XX-UDD-SVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

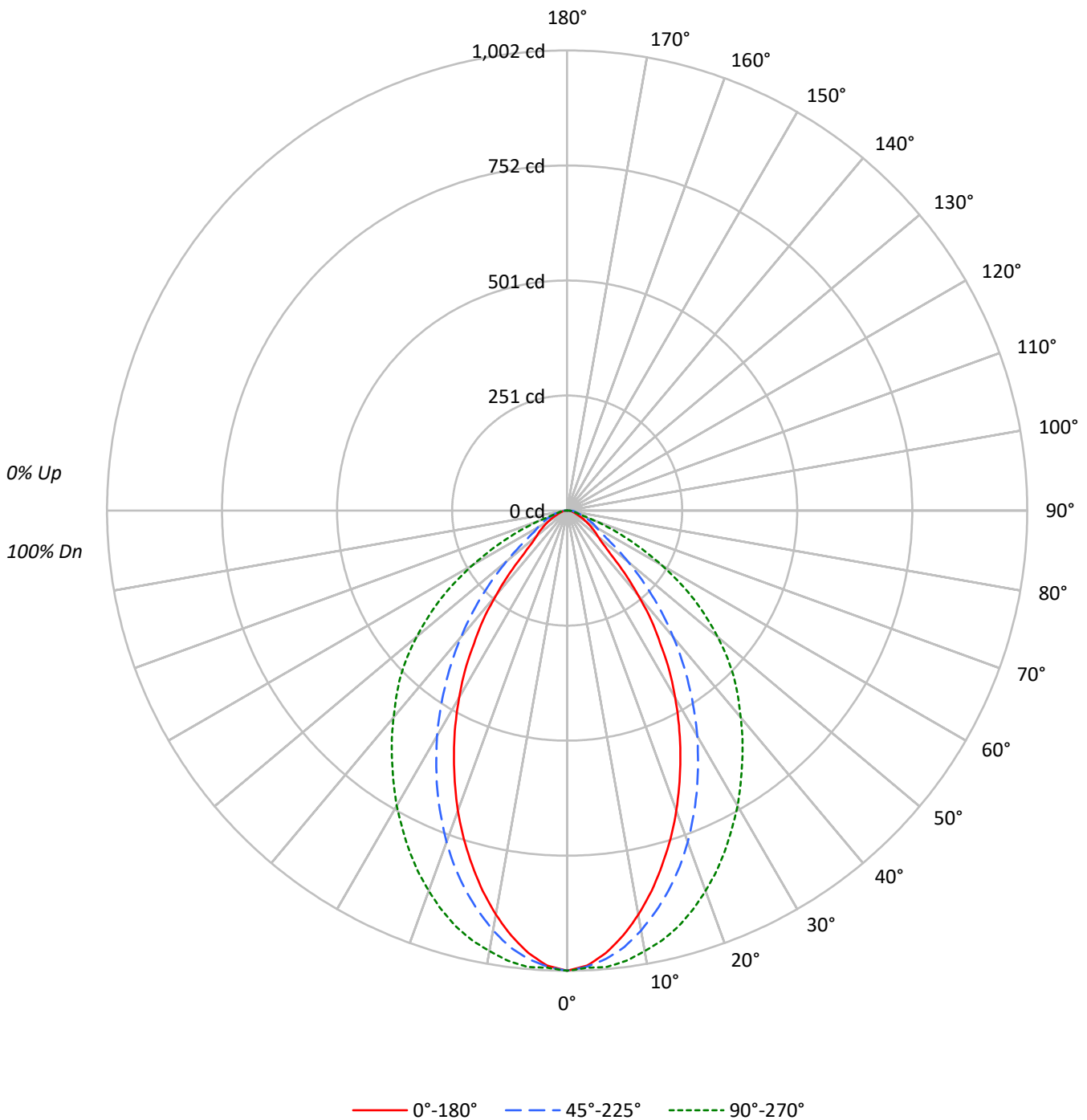
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1418.0 lumens  
Efficiency: N/A  
Efficacy: 38.8 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	104	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	66	75	70	66	73	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57					57			
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51					51			
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43					43			
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	8627	8627	8627
5°	8361	8467	8622
10°	7811	8114	8516
15°	7126	7625	8353
20°	6371	7037	8073
25°	5541	6360	7744
30°	4675	5632	7380
35°	3718	4848	6990
40°	2706	4039	6606
45°	1636	3189	6257
50°	1170	2310	5728
55°	991	1563	5059
60°	809	1273	4087
65°	638	1141	2942
70°	536	959	1551
75°	486	895	782
80°	501	888	779
85°	662	1324	889

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 6257 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.2	6.5
10°-20°	241.7	17.0
20°-30°	313.5	22.1
30°-40°	301.8	21.3
40°-50°	224.5	15.8
50°-60°	138.1	9.7
60°-70°	67.8	4.8
70°-80°	26.4	1.9
80°-90°	12.1	0.9
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°	647.4	45.7
0°-40°	949.2	66.9
0°-60°	1311.7	92.5
0°-90°	1418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	967	982	980	988	997	90
15°	799	825	855	907	937	223
25°	583	615	669	753	815	267
35°	354	387	461	576	665	221
45°	134	167	262	404	514	112
55°	66	68	104	237	337	59
65°	31	34	56	90	144	32
75°	15	26	27	25	24	16
85°	7	12	13	13	9	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1001.9	1001.9	1001.9	1001.9	1001.9
2.5°	991.8	1003.0	994.1	995.2	996.3
5°	967.2	981.8	979.5	988.5	997.4
7.5°	933.6	950.4	958.2	976.2	988.5
10°	893.3	912.3	928.0	957.1	973.9
12.5°	848.5	870.9	893.3	932.5	958.2
15°	799.3	825.0	855.3	906.7	937.0
17.5°	748.9	774.7	813.8	873.2	911.2
20°	695.2	723.2	767.9	834.0	881.0
22.5°	639.2	669.4	718.7	793.7	849.7
25°	583.2	614.6	669.4	753.4	815.0
27.5°	527.3	557.5	616.8	710.8	778.0
30°	470.2	501.5	566.4	664.9	742.2
32.5°	415.3	444.4	513.8	621.3	703.0
35°	353.7	387.3	461.2	576.5	664.9
37.5°	301.1	331.4	410.8	531.7	626.9
40°	240.7	274.3	359.3	488.1	587.7
42.5°	184.7	218.3	310.1	444.4	550.8
45°	134.3	166.8	261.9	404.1	513.8
47.5°	101.9	120.9	214.9	364.9	472.4
50°	87.3	92.9	172.4	322.4	427.6
52.5°	77.2	79.5	134.3	279.9	382.8
55°	66.0	68.3	104.1	237.3	337.0
57.5°	56.0	57.1	84.0	197.0	287.7
60°	47.0	48.1	73.9	157.8	237.3
62.5°	39.2	40.3	66.0	122.0	189.2
65°	31.3	33.6	56.0	89.6	144.4
67.5°	25.7	30.2	47.0	62.7	100.7
70°	21.3	29.1	38.1	43.7	61.6
72.5°	17.9	26.9	32.5	31.3	30.2
75°	14.6	25.7	26.9	24.6	23.5
77.5°	12.3	22.4	22.4	20.1	19.0
80°	10.1	17.9	17.9	17.9	15.7
82.5°	9.0	14.6	15.7	15.7	12.3
85°	6.7	12.3	13.4	13.4	9.0
87.5°	4.5	11.2	12.3	11.2	6.7
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	7.27	8.61	7.64	8.93	9.24	16.44	17.78	16.80	18.09	18.41
	3H	8.38	9.57	8.76	9.90	10.27	16.95	18.14	17.33	18.47	18.83
	4H	8.90	10.01	9.30	10.36	10.74	16.97	18.08	17.37	18.43	18.81
	6H	9.33	10.36	9.75	10.73	11.12	16.98	18.00	17.39	18.37	18.76
	8H	9.53	10.49	9.96	10.88	11.29	16.98	17.95	17.41	18.34	18.74
	12H	9.71	10.63	10.14	11.02	11.45	16.98	17.91	17.42	18.29	18.72
4H	2H	8.42	9.53	8.82	9.88	10.26	16.33	17.44	16.73	17.79	18.17
	3H	9.76	10.67	10.17	11.07	11.47	16.92	17.83	17.33	18.23	18.64
	4H	10.49	11.30	10.93	11.72	12.17	16.98	17.79	17.41	18.21	18.65
	6H	11.10	11.80	11.56	12.25	12.72	17.05	17.76	17.52	18.20	18.67
	8H	11.35	12.00	11.81	12.45	12.92	17.08	17.74	17.55	18.19	18.66
	12H	11.58	12.16	12.07	12.65	13.12	17.13	17.71	17.61	18.19	18.66
8H	4H	10.96	11.62	11.43	12.06	12.53	16.94	17.59	17.41	18.04	18.51
	6H	11.81	12.35	12.31	12.84	13.32	17.06	17.60	17.57	18.10	18.58
	8H	12.22	12.70	12.74	13.22	13.71	17.15	17.63	17.67	18.15	18.64
	12H	12.64	13.07	13.15	13.56	14.13	17.27	17.70	17.78	18.19	18.76
12H	4H	11.01	11.59	11.50	12.08	12.55	16.91	17.49	17.40	17.97	18.45
	6H	11.94	12.42	12.46	12.94	13.43	17.05	17.53	17.57	18.04	18.54
	8H	12.47	12.89	12.98	13.39	13.96	17.18	17.61	17.69	18.10	18.67