

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: P1060271

Luminaire Tested: S124RDRP-S1020D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1060271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDRP-S1020D930-X4F0-XX-UDD-WVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

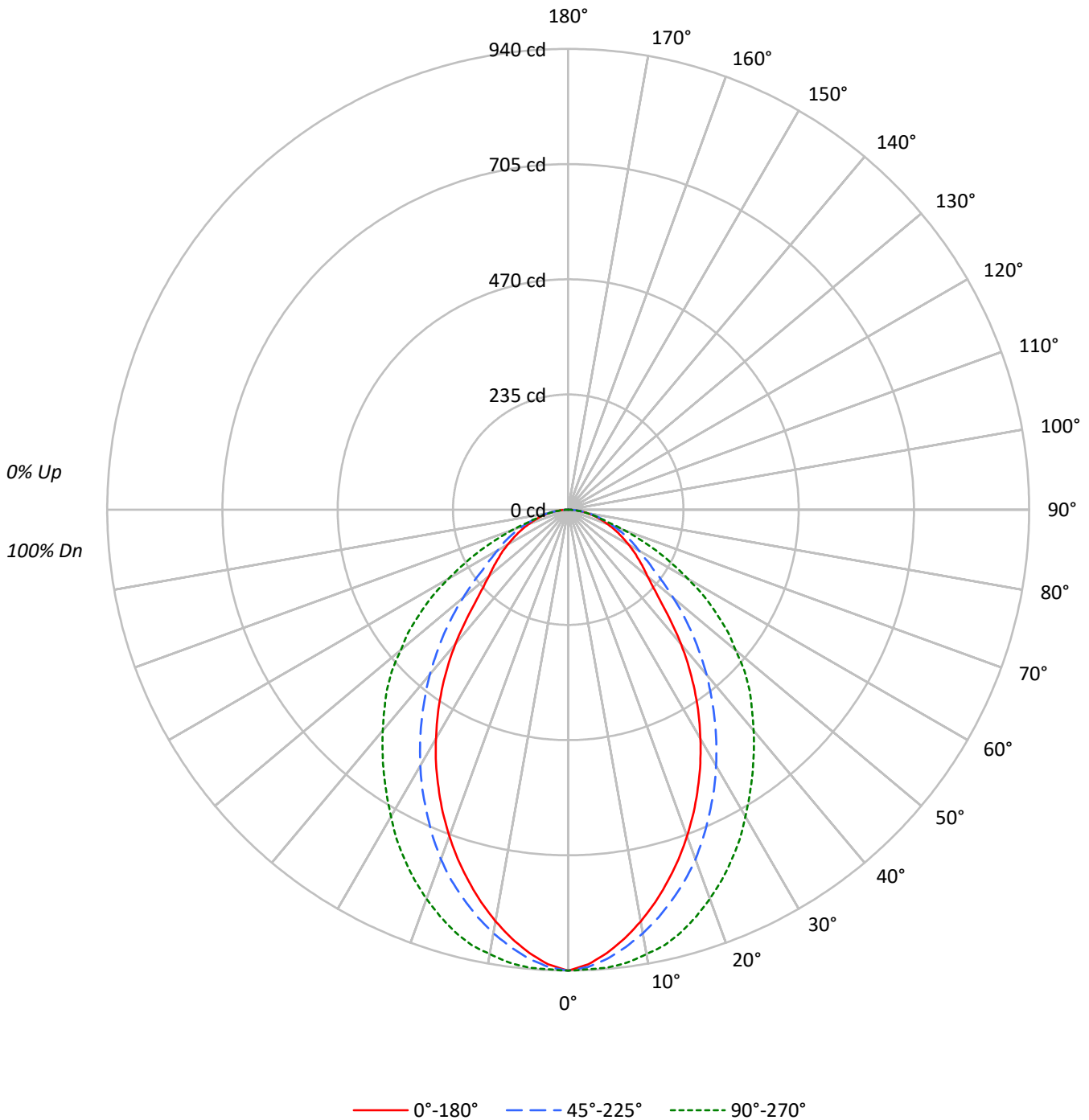
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1711.8 lumens  
Efficiency: N/A  
Efficacy: 48.9 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1  
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 35  
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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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.8	5.1
10°-20°	233.3	13.6
20°-30°	318.6	18.6
30°-40°	333.8	19.5
40°-50°	288.9	16.9
50°-60°	217.1	12.7
60°-70°	140.0	8.2
70°-80°	71.8	4.2
80°-90°	21.4	1.3
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°	638.7	37.3
0°-40°	972.5	56.8
0°-60°	1478.6	86.4
0°-90°	1711.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1711.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	908	922	920	926	937	85
15°	784	804	823	860	892	220
25°	626	650	682	735	788	287
35°	449	475	520	589	655	280
45°	268	296	358	446	523	211
55°	174	180	212	303	369	157
65°	112	114	132	160	198	112
75°	61	68	69	68	66	65
85°	18	21	20	19	15	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	940.2	940.2	940.2	940.2	940.2
2.5°	928.4	940.2	933.3	935.3	938.3
5°	907.7	921.5	919.5	926.4	937.3
7.5°	882.1	896.9	899.8	915.6	931.4
10°	852.5	869.3	877.1	900.8	920.5
12.5°	820.0	837.7	851.5	881.1	909.7
15°	784.5	804.2	822.9	860.4	891.9
17.5°	748.0	767.8	792.4	833.8	869.3
20°	708.6	730.3	758.9	802.2	844.6
22.5°	668.2	690.9	721.4	768.7	818.0
25°	625.8	649.5	682.0	735.2	788.4
27.5°	583.5	607.1	643.6	699.7	757.9
30°	539.1	563.7	603.2	664.3	722.4
32.5°	494.8	521.4	561.8	626.8	688.9
35°	449.4	475.0	520.4	589.4	655.4
37.5°	404.1	430.7	479.0	552.9	621.9
40°	357.8	385.4	438.6	516.4	588.4
42.5°	311.4	341.0	397.2	479.0	554.9
45°	268.1	295.7	357.8	445.5	523.3
47.5°	235.5	254.3	318.3	412.9	487.9
50°	210.9	220.8	279.9	377.5	445.5
52.5°	192.2	199.1	244.4	339.0	411.0
55°	174.4	180.4	211.9	302.6	368.6
57.5°	158.7	161.6	187.3	267.1	328.2
60°	141.9	144.9	166.6	228.7	281.9
62.5°	127.1	129.1	149.8	192.2	239.5
65°	112.4	114.3	132.1	159.7	198.1
67.5°	98.6	101.5	115.3	130.1	157.7
70°	84.8	90.7	98.6	105.5	121.2
72.5°	72.9	78.8	82.8	84.8	85.7
75°	61.1	68.0	69.0	68.0	66.0
77.5°	49.3	55.2	55.2	53.2	51.2
80°	38.4	43.4	42.4	40.4	37.5
82.5°	28.6	31.5	30.6	28.6	25.6
85°	17.7	20.7	19.7	18.7	14.8
87.5°	8.9	11.8	10.8	9.9	5.9
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	13.70	15.18	14.06	15.49	15.81	17.47	18.96	17.84	19.27	19.58
	3H	15.35	16.68	15.73	17.01	17.37	18.59	19.92	18.96	20.24	20.61
	4H	16.02	17.27	16.42	17.62	18.00	18.88	20.12	19.28	20.47	20.85
	6H	16.54	17.69	16.95	18.05	18.45	19.07	20.22	19.49	20.59	20.98
	8H	16.72	17.81	17.15	18.20	18.60	19.13	20.22	19.55	20.61	21.01
	12H	16.84	17.89	17.27	18.27	18.70	19.15	20.20	19.58	20.58	21.01
4H	2H	14.48	15.73	14.88	16.08	16.46	17.63	18.88	18.03	19.23	19.61
	3H	16.34	17.38	16.75	17.78	18.18	18.94	19.98	19.35	20.38	20.78
	4H	17.15	18.08	17.59	18.50	18.94	19.35	20.28	19.78	20.70	21.14
	6H	17.80	18.61	18.26	19.05	19.51	19.67	20.47	20.13	20.92	21.38
	8H	18.03	18.78	18.49	19.23	19.69	19.76	20.51	20.22	20.96	21.43
	12H	18.20	18.87	18.68	19.35	19.82	19.82	20.49	20.30	20.97	21.44
8H	4H	17.50	18.26	17.97	18.70	19.17	19.48	20.24	19.95	20.68	21.15
	6H	18.29	18.92	18.79	19.41	19.89	19.90	20.52	20.39	21.01	21.49
	8H	18.62	19.17	19.13	19.69	20.17	20.05	20.61	20.56	21.12	21.61
	12H	18.88	19.37	19.39	19.87	20.43	20.17	20.67	20.68	21.16	21.72
12H	4H	17.53	18.20	18.01	18.68	19.15	19.49	20.16	19.97	20.64	21.11
	6H	18.36	18.92	18.87	19.43	19.92	19.92	20.48	20.43	20.99	21.48
	8H	18.74	19.24	19.25	19.73	20.30	20.12	20.61	20.63	21.11	21.67