

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: P1060524

Luminaire Tested: S124RDRP-S575D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1060524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDRP-S575D935-X4F0-XX-UDD-WVL-W  
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

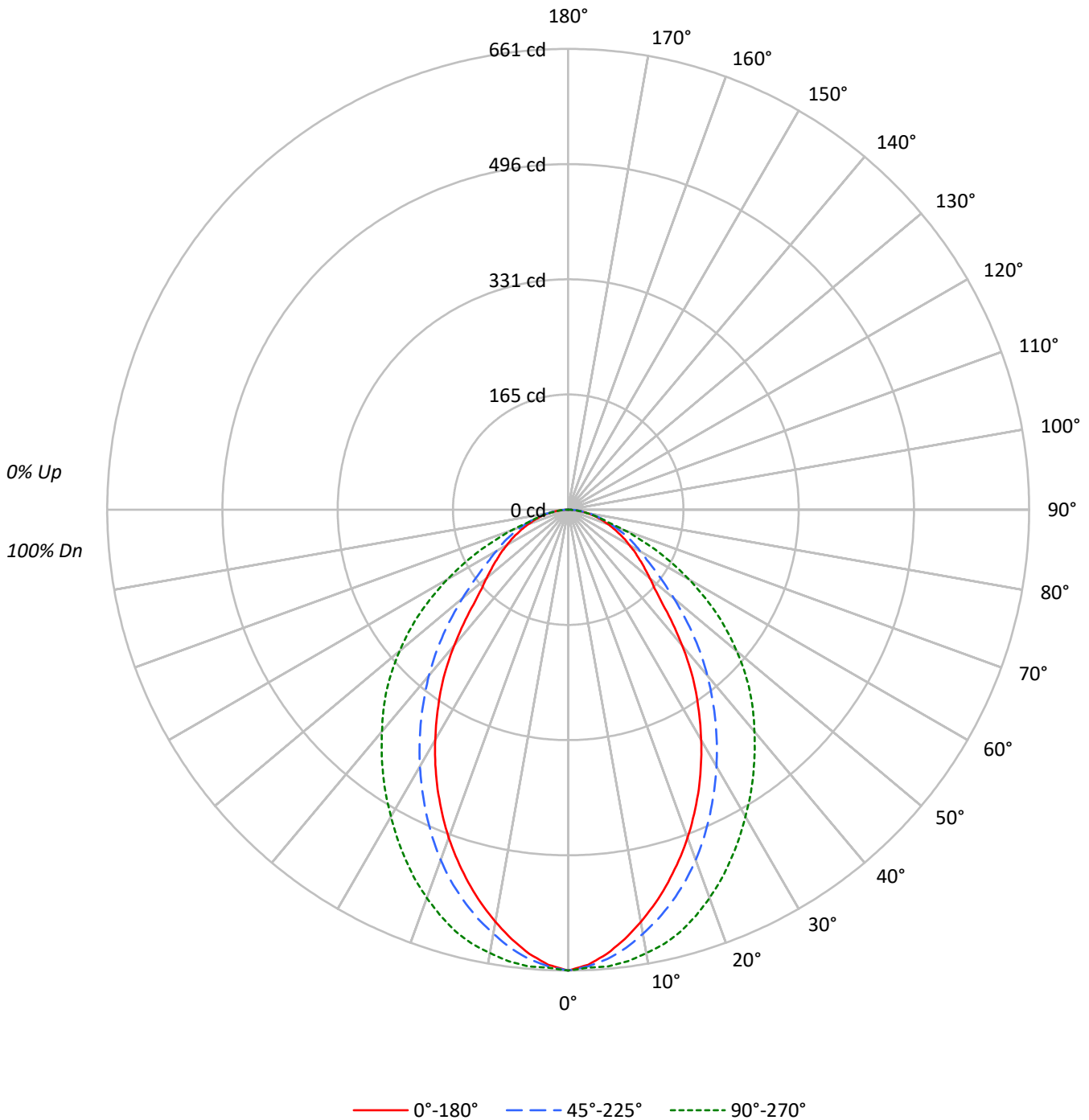
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1212.9 lumens  
Efficiency: N/A  
Efficacy: 61.9 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11  
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87													87															
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75													75															
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65													65															
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57													57															
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50													50															
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45													45															
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40													40															
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37													37															
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33													33															
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31													31															

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

	0°	45°	90°
0°	5692	5692	5692
5°	5527	5593	5683
10°	5248	5401	5647
15°	4934	5173	5580
20°	4588	4899	5430
25°	4207	4574	5252
30°	3792	4229	5054
35°	3358	3867	4864
40°	2854	3491	4668
45°	2337	3085	4488
50°	2046	2648	4224
55°	1880	2283	3908
60°	1743	2055	3446
65°	1632	1932	2885
70°	1531	1767	2165
75°	1441	1617	1577
80°	1334	1478	1334
85°	1215	1443	1156

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4488 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.1	5.0
10°-20°	164.4	13.6
20°-30°	224.7	18.5
30°-40°	236.1	19.5
40°-50°	204.9	16.9
50°-60°	154.6	12.7
60°-70°	100.2	8.3
70°-80°	51.4	4.2
80°-90°	15.6	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°	450.1	37.1
0°-40°	686.2	56.6
0°-60°	1045.7	86.2
0°-90°	1212.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1212.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	639	648	647	652	658	60
15°	553	567	580	607	626	155
25°	443	459	481	518	553	203
35°	319	337	368	417	463	199
45°	192	210	253	316	368	151
55°	125	129	152	216	260	113
65°	80	82	95	115	142	80
75°	43	49	49	49	47	46
85°	12	15	15	14	12	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	661.0	661.0	661.0	661.0	661.0
2.5°	653.4	661.6	655.7	656.9	657.5
5°	639.4	648.1	647.0	652.2	657.5
7.5°	621.2	631.7	634.1	644.6	653.4
10°	600.2	611.9	617.7	634.7	645.8
12.5°	577.9	589.6	600.2	621.8	637.6
15°	553.4	566.8	580.3	606.6	625.9
17.5°	527.6	541.7	558.6	587.3	610.1
20°	500.7	514.8	534.6	565.6	592.6
22.5°	472.1	487.9	508.9	542.3	573.8
25°	442.8	458.6	481.4	518.3	552.8
27.5°	412.4	428.8	453.3	494.3	531.1
30°	381.4	398.9	425.3	468.5	508.3
32.5°	349.8	368.5	396.6	442.8	486.1
35°	319.4	336.9	367.9	417.1	462.7
37.5°	287.8	305.3	338.7	391.9	439.3
40°	253.9	273.2	310.6	365.6	415.3
42.5°	222.3	241.6	281.9	340.4	392.5
45°	191.9	210.0	253.3	316.5	368.5
47.5°	168.5	181.3	224.6	293.1	342.8
50°	152.7	158.5	197.7	267.3	315.3
52.5°	138.6	143.3	173.1	241.6	288.4
55°	125.2	128.7	152.1	215.8	260.3
57.5°	113.5	115.2	133.4	190.1	229.9
60°	101.2	103.5	119.3	163.8	200.1
62.5°	91.3	92.4	107.0	138.6	170.2
65°	80.1	81.9	94.8	114.7	141.6
67.5°	70.2	73.1	81.9	93.6	111.7
70°	60.8	64.9	70.2	76.0	86.0
72.5°	52.1	56.7	59.7	62.0	60.3
75°	43.3	48.6	48.6	49.1	47.4
77.5°	35.1	39.8	39.2	38.6	36.3
80°	26.9	31.0	29.8	29.2	26.9
82.5°	19.9	22.8	21.6	21.1	18.1
85°	12.3	15.2	14.6	14.0	11.7
87.5°	5.8	8.8	8.2	7.6	5.3
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	12.54	14.03	12.91	14.34	14.66	16.28	17.77	16.65	18.08	18.40
	3H	14.21	15.54	14.59	15.87	16.23	17.41	18.74	17.79	19.07	19.43
	4H	14.88	16.13	15.28	16.48	16.86	17.70	18.95	18.10	19.30	19.68
	6H	15.39	16.54	15.80	16.91	17.30	17.90	19.06	18.32	19.43	19.82
	8H	15.56	16.66	15.99	17.05	17.45	17.96	19.06	18.39	19.45	19.85
	12H	15.68	16.73	16.11	17.11	17.54	17.99	19.04	18.42	19.42	19.85
4H	2H	13.34	14.59	13.74	14.93	15.31	16.45	17.70	16.85	18.05	18.43
	3H	15.21	16.24	15.62	16.64	17.05	17.78	18.81	18.19	19.22	19.62
	4H	16.01	16.95	16.45	17.36	17.80	18.20	19.13	18.63	19.54	19.98
	6H	16.66	17.47	17.11	17.91	18.37	18.52	19.33	18.97	19.77	20.23
	8H	16.88	17.64	17.34	18.08	18.55	18.61	19.37	19.08	19.81	20.28
	12H	17.05	17.72	17.53	18.20	18.67	18.68	19.36	19.17	19.84	20.31
8H	4H	16.36	17.12	16.83	17.56	18.03	18.33	19.09	18.79	19.53	20.00
	6H	17.15	17.78	17.65	18.27	18.75	18.75	19.37	19.25	19.86	20.34
	8H	17.47	18.03	17.98	18.54	19.03	18.90	19.47	19.42	19.98	20.47
	12H	17.73	18.23	18.24	18.72	19.29	19.04	19.54	19.55	20.03	20.60
12H	4H	16.39	17.07	16.87	17.55	18.02	18.33	19.01	18.82	19.49	19.96
	6H	17.21	17.77	17.73	18.28	18.77	18.77	19.33	19.28	19.84	20.33
	8H	17.60	18.09	18.11	18.59	19.15	18.98	19.47	19.49	19.97	20.53