

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: P1060602

Luminaire Tested: S124RDRP-S795D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060602
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-S795D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

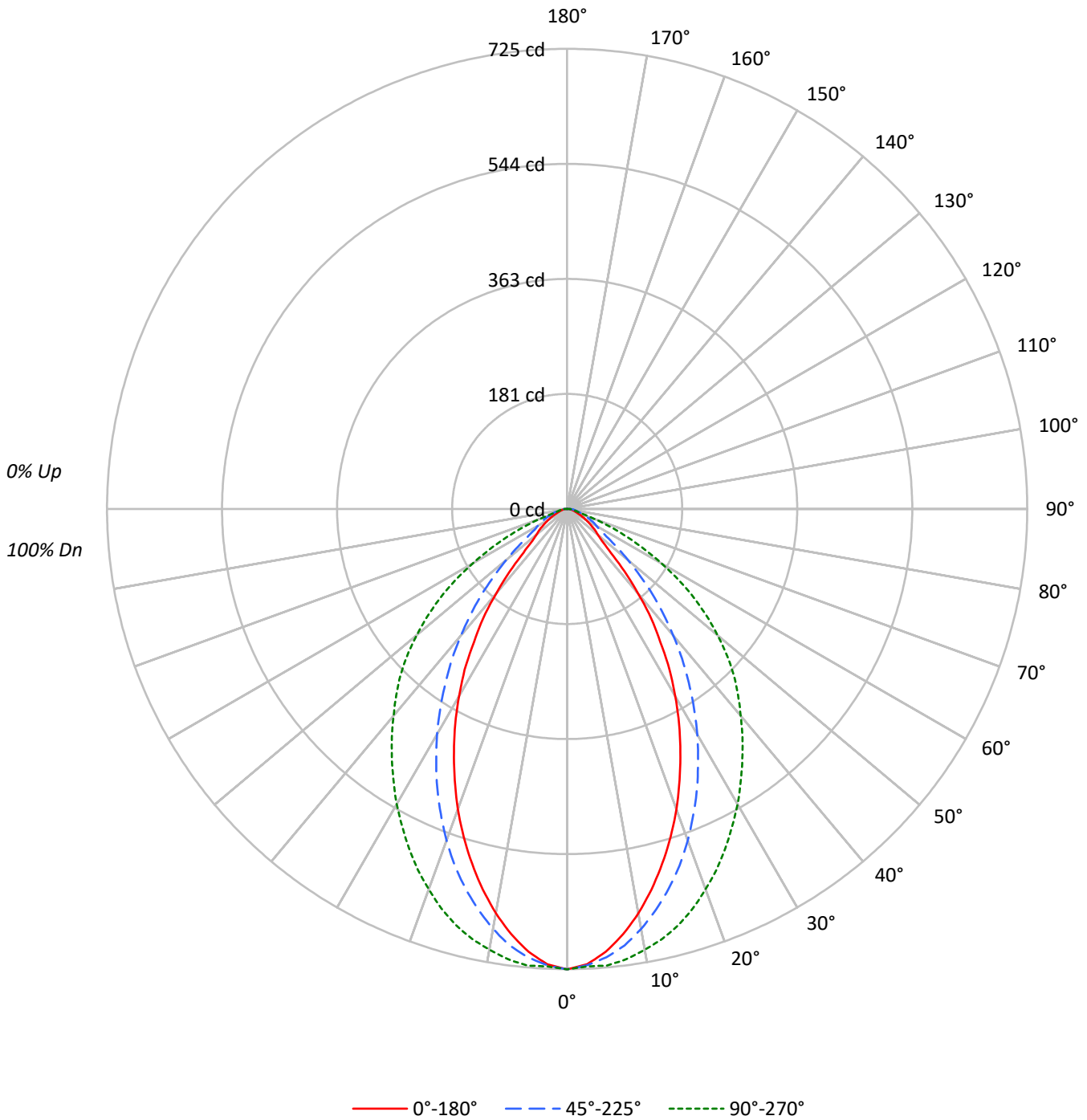
Lumens per Lamp: N/A
Luminaire Lumens: 1026.5 lumens
Efficiency: N/A
Efficacy: 39.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (A_{in}): 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	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																												
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79																												
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70																												
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63																												
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57																												
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51																												
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47																												
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43																												
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39																												
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6246	6246	6246
5°	6052	6129	6241
10°	5655	5874	6165
15°	5158	5519	6047
20°	4611	5094	5844
25°	4011	4604	5605
30°	3384	4077	5343
35°	2692	3510	5060
40°	1958	2924	4782
45°	1184	2309	4529
50°	847	1672	4148
55°	718	1132	3662
60°	586	921	2959
65°	463	825	2129
70°	388	695	1123
75°	349	645	566
80°	362	645	560
85°	484	958	642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4529 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	6.5
10°-20°	175.0	17.0
20°-30°	226.9	22.1
30°-40°	218.4	21.3
40°-50°	162.5	15.8
50°-60°	99.9	9.7
60°-70°	49.1	4.8
70°-80°	19.1	1.9
80°-90°	8.7	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°	468.7	45.7
0°-40°	687.1	66.9
0°-60°	949.5	92.5
0°-90°	1026.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1026.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	700	711	709	716	722	65
15°	579	597	619	656	678	162
25°	422	445	485	545	590	193
35°	256	280	334	417	481	160
45°	97	121	190	292	372	81
55°	48	49	75	172	244	43
65°	23	24	40	65	104	23
75°	10	19	19	18	17	12
85°	5	9	10	10	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.3	725.3	725.3	725.3	725.3
2.5°	718.0	726.1	719.6	720.4	721.2
5°	700.1	710.7	709.0	715.5	722.0
7.5°	675.8	688.0	693.7	706.6	715.5
10°	646.7	660.4	671.8	692.8	705.0
12.5°	614.2	630.4	646.7	675.0	693.7
15°	578.6	597.2	619.1	656.4	678.3
17.5°	542.1	560.8	589.1	632.1	659.6
20°	503.2	523.5	555.9	603.7	637.7
22.5°	462.7	484.6	520.2	574.5	615.0
25°	422.2	444.9	484.6	545.4	589.9
27.5°	381.7	403.5	446.5	514.6	563.2
30°	340.3	363.0	410.0	481.3	537.3
32.5°	300.6	321.7	371.9	449.7	508.9
35°	256.1	280.4	333.9	417.3	481.3
37.5°	218.0	239.9	297.4	384.9	453.8
40°	174.2	198.5	260.1	353.3	425.4
42.5°	133.7	158.0	224.5	321.7	398.7
45°	97.2	120.7	189.6	292.5	371.9
47.5°	73.7	87.5	155.6	264.2	342.0
50°	63.2	67.3	124.8	233.4	309.6
52.5°	55.9	57.5	97.2	202.6	277.1
55°	47.8	49.4	75.4	171.8	243.9
57.5°	40.5	41.3	60.8	142.6	208.3
60°	34.0	34.8	53.5	114.3	171.8
62.5°	28.4	29.2	47.8	88.3	136.9
65°	22.7	24.3	40.5	64.8	104.5
67.5°	18.6	21.9	34.0	45.4	72.9
70°	15.4	21.1	27.6	31.6	44.6
72.5°	13.0	19.4	23.5	22.7	21.9
75°	10.5	18.6	19.4	17.8	17.0
77.5°	8.9	16.2	16.2	14.6	13.8
80°	7.3	13.0	13.0	13.0	11.3
82.5°	6.5	10.5	11.3	11.3	8.9
85°	4.9	8.9	9.7	9.7	6.5
87.5°	3.2	8.1	8.9	8.1	4.9
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	6.14	7.49	6.51	7.80	8.11	15.32	16.66	15.68	16.97	17.29
	3H	7.26	8.45	7.64	8.78	9.14	15.82	17.01	16.20	17.34	17.71
	4H	7.77	8.88	8.18	9.23	9.62	15.84	16.95	16.25	17.30	17.69
	6H	8.21	9.23	8.62	9.60	9.99	15.85	16.88	16.27	17.25	17.64
	8H	8.40	9.37	8.83	9.76	10.16	15.86	16.83	16.29	17.22	17.62
	12H	8.58	9.51	9.01	9.89	10.32	15.86	16.79	16.29	17.17	17.60
4H	2H	7.29	8.40	7.69	8.75	9.13	15.21	16.32	15.61	16.67	17.05
	3H	8.63	9.54	9.05	9.95	10.35	15.80	16.71	16.21	17.11	17.51
	4H	9.37	10.18	9.80	10.60	11.04	15.86	16.67	16.29	17.09	17.53
	6H	9.98	10.68	10.44	11.12	11.59	15.93	16.64	16.39	17.08	17.55
	8H	10.22	10.87	10.69	11.32	11.79	15.96	16.62	16.43	17.07	17.54
	12H	10.46	11.04	10.94	11.52	11.99	16.00	16.58	16.49	17.07	17.54
8H	4H	9.83	10.49	10.30	10.94	11.41	15.81	16.47	16.28	16.92	17.39
	6H	10.68	11.22	11.19	11.72	12.20	15.94	16.48	16.44	16.98	17.46
	8H	11.09	11.57	11.61	12.09	12.58	16.03	16.51	16.55	17.02	17.52
	12H	11.51	11.94	12.03	12.44	13.01	16.15	16.57	16.66	17.07	17.64
12H	4H	9.89	10.47	10.37	10.95	11.42	15.79	16.37	16.27	16.85	17.32
	6H	10.82	11.30	11.34	11.81	12.31	15.92	16.41	16.44	16.92	17.41
	8H	11.34	11.77	11.85	12.26	12.83	16.06	16.48	16.57	16.98	17.55