

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: P1060548

Luminaire Tested: S124RDRP-S795D830-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060548
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-S795D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

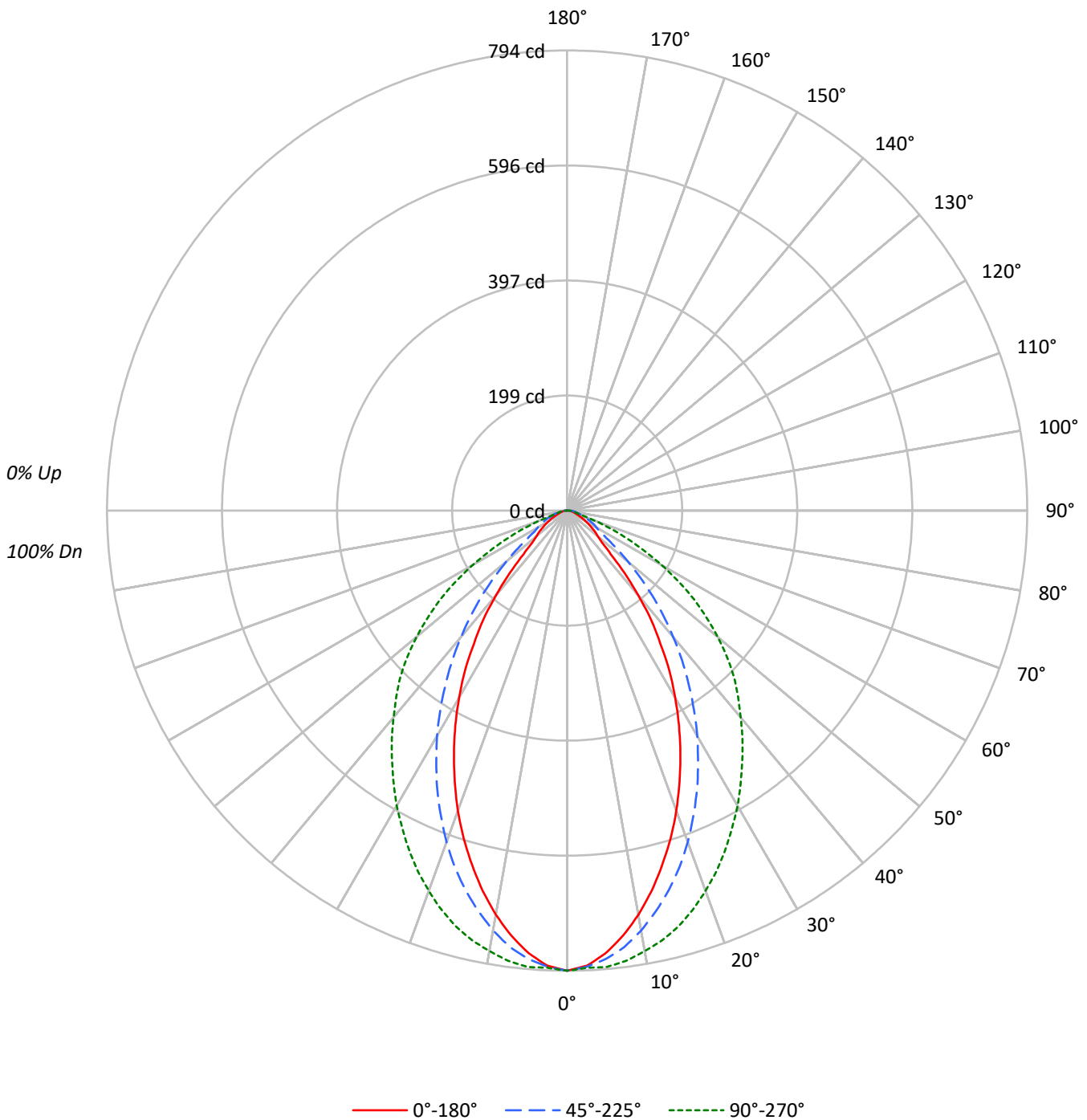
Lumens per Lamp: N/A
Luminaire Lumens: 1123.7 lumens
Efficiency: N/A
Efficacy: 43.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	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°	6836	6836	6836
5°	6625	6709	6832
10°	6190	6430	6749
15°	5647	6042	6619
20°	5048	5576	6397
25°	4392	5040	6136
30°	3705	4464	5848
35°	2947	3842	5539
40°	2144	3201	5235
45°	1297	2528	4959
50°	927	1830	4540
55°	785	1239	4008
60°	642	1008	3240
65°	505	905	2331
70°	425	760	1229
75°	383	709	619
80°	397	704	615
85°	524	1047	701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4959 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	6.5
10°-20°	191.5	17.0
20°-30°	248.4	22.1
30°-40°	239.1	21.3
40°-50°	177.9	15.8
50°-60°	109.4	9.7
60°-70°	53.7	4.8
70°-80°	21.0	1.9
80°-90°	9.6	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°	513.0	45.7
0°-40°	752.2	66.9
0°-60°	1039.5	92.5
0°-90°	1123.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1123.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	766	778	776	783	790	71
15°	633	654	678	718	742	177
25°	462	487	530	597	646	211
35°	280	307	366	457	527	175
45°	106	132	208	320	407	88
55°	52	54	82	188	267	47
65°	25	27	44	71	114	26
75°	12	20	21	20	19	13
85°	5	10	11	11	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	793.9	793.9	793.9	793.9	793.9
2.5°	786.0	794.8	787.7	788.6	789.5
5°	766.4	778.0	776.2	783.3	790.4
7.5°	739.8	753.1	759.3	773.5	783.3
10°	707.9	723.0	735.4	758.5	771.8
12.5°	672.4	690.2	707.9	738.9	759.3
15°	633.4	653.8	677.7	718.5	742.5
17.5°	593.5	613.9	644.9	691.9	722.1
20°	550.9	573.1	608.5	660.9	698.1
22.5°	506.5	530.5	569.5	628.9	673.3
25°	462.2	487.0	530.5	597.0	645.8
27.5°	417.8	441.8	488.8	563.3	616.5
30°	372.6	397.4	448.9	526.9	588.1
32.5°	329.1	352.2	407.2	492.3	557.1
35°	280.3	306.9	365.5	456.8	526.9
37.5°	238.6	262.6	325.6	421.4	496.8
40°	190.7	217.3	284.8	386.8	465.7
42.5°	146.4	173.0	245.7	352.2	436.4
45°	106.5	132.2	207.6	320.2	407.2
47.5°	80.7	95.8	170.3	289.2	374.4
50°	69.2	73.6	136.6	255.5	338.9
52.5°	61.2	63.0	106.5	221.8	303.4
55°	52.3	54.1	82.5	188.1	267.0
57.5°	44.4	45.2	66.5	156.1	228.0
60°	37.3	38.1	58.5	125.1	188.1
62.5°	31.0	31.9	52.3	96.7	149.9
65°	24.8	26.6	44.4	71.0	114.4
67.5°	20.4	24.0	37.3	49.7	79.8
70°	16.9	23.1	30.2	34.6	48.8
72.5°	14.2	21.3	25.7	24.8	24.0
75°	11.5	20.4	21.3	19.5	18.6
77.5°	9.8	17.7	17.7	16.0	15.1
80°	8.0	14.2	14.2	14.2	12.4
82.5°	7.1	11.5	12.4	12.4	9.8
85°	5.3	9.8	10.6	10.6	7.1
87.5°	3.5	8.9	9.8	8.9	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	6.46	7.80	6.82	8.11	8.43	15.63	16.97	16.00	17.29	17.60
	3H	7.57	8.77	7.95	9.10	9.46	16.14	17.33	16.52	17.66	18.02
	4H	8.09	9.20	8.49	9.55	9.93	16.16	17.27	16.56	17.62	18.00
	6H	8.53	9.55	8.94	9.92	10.31	16.17	17.19	16.58	17.56	17.95
	8H	8.72	9.68	9.15	10.08	10.48	16.17	17.14	16.60	17.53	17.93
	12H	8.90	9.82	9.33	10.21	10.64	16.18	17.10	16.61	17.48	17.91
4H	2H	7.61	8.72	8.01	9.07	9.45	15.52	16.63	15.93	16.98	17.37
	3H	8.95	9.86	9.36	10.26	10.67	16.11	17.02	16.53	17.43	17.83
	4H	9.68	10.50	10.12	10.92	11.36	16.17	16.98	16.61	17.40	17.85
	6H	10.29	11.00	10.76	11.44	11.91	16.25	16.95	16.71	17.40	17.86
	8H	10.54	11.19	11.00	11.64	12.11	16.28	16.93	16.75	17.38	17.85
	12H	10.77	11.35	11.26	11.84	12.31	16.32	16.90	16.80	17.38	17.86
8H	4H	10.15	10.81	10.62	11.25	11.72	16.13	16.79	16.60	17.23	17.70
	6H	11.00	11.54	11.50	12.03	12.51	16.26	16.79	16.76	17.29	17.77
	8H	11.41	11.89	11.93	12.40	12.90	16.34	16.82	16.86	17.34	17.83
	12H	11.83	12.26	12.34	12.75	13.32	16.46	16.89	16.97	17.38	17.95
12H	4H	10.20	10.79	10.69	11.27	11.74	16.10	16.68	16.59	17.17	17.64
	6H	11.13	11.62	11.65	12.13	12.62	16.24	16.72	16.76	17.24	17.73
	8H	11.65	12.08	12.17	12.58	13.15	16.37	16.80	16.89	17.29	17.86