

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: P1060589

Luminaire Tested: S124RDRP-S795D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S795D930-X4F0-XX-UDD-BVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

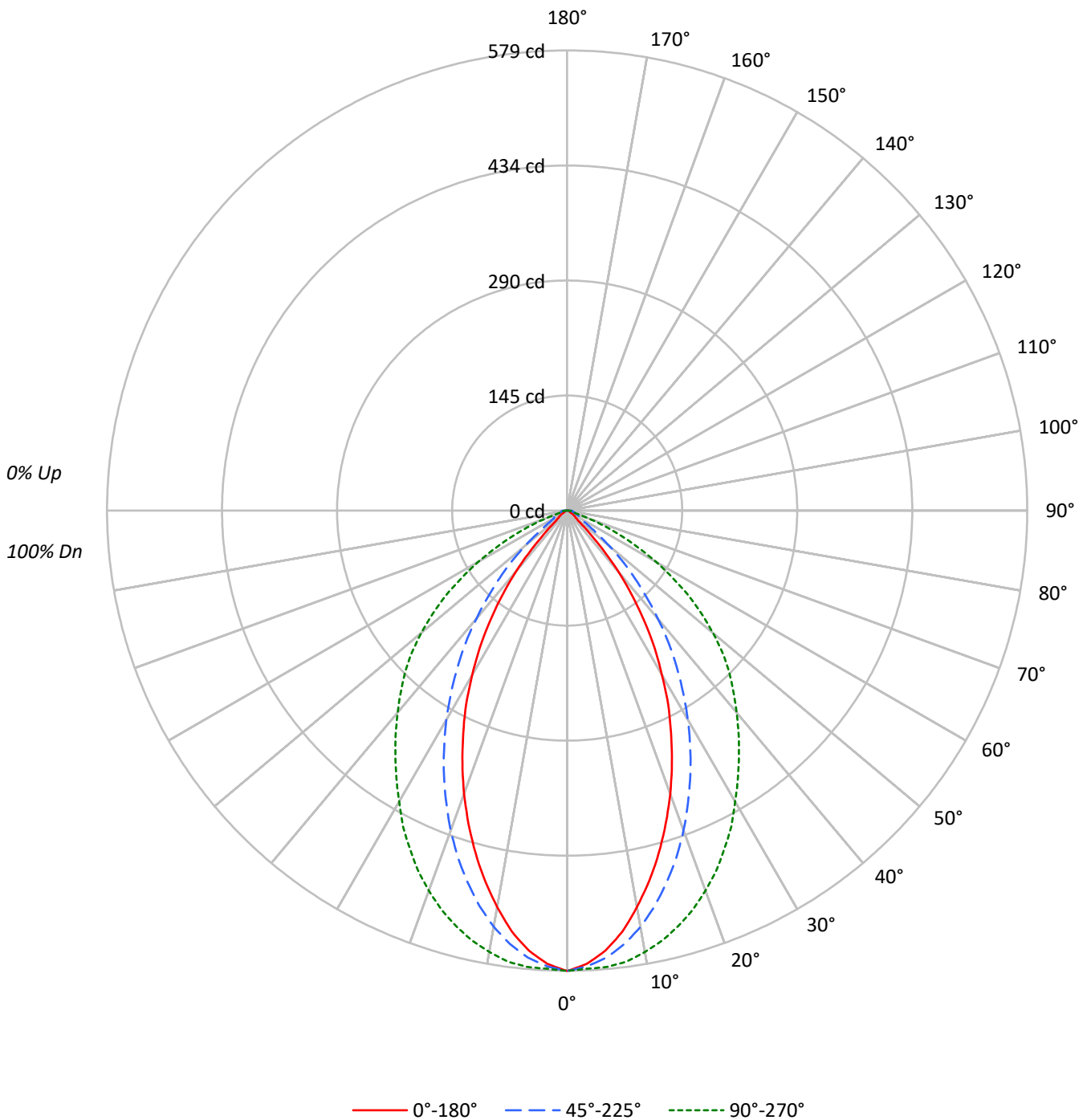
Lumens per Lamp: N/A
Luminaire Lumens: 727.1 lumens
Efficiency: N/A
Efficacy: 28.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4988	4988	4988
5°	4803	4882	4982
10°	4428	4650	4932
15°	3974	4317	4823
20°	3474	3924	4663
25°	2938	3485	4454
30°	2372	3022	4204
35°	1766	2525	3961
40°	1122	2001	3726
45°	448	1467	3513
50°	196	935	3207
55°	150	483	2800
60°	105	331	2220
65°	77	328	1516
70°	78	290	695
75°	103	306	279
80°	154	342	302
85°	306	603	454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3513 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	7.3
10°-20°	136.8	18.8
20°-30°	172.8	23.8
30°-40°	158.7	21.8
40°-50°	108.2	14.9
50°-60°	58.7	8.1
60°-70°	24.9	3.4
70°-80°	8.6	1.2
80°-90°	5.4	0.7
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°	362.6	49.9
0°-40°	521.3	71.7
0°-60°	688.1	94.6
0°-90°	727.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	727.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	556	564	565	569	576	51
15°	446	460	484	519	541	124
25°	309	329	367	424	469	141
35°	168	190	240	315	377	104
45°	37	59	120	213	288	34
55°	10	11	32	117	186	9
65°	4	5	16	37	74	4
75°	3	8	9	8	8	3
85°	3	6	6	6	5	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	579.3	579.3	579.3	579.3	579.3
2.5°	570.9	577.8	574.0	575.5	577.0
5°	555.6	564.0	564.8	569.4	576.3
7.5°	534.1	544.0	550.2	561.7	572.4
10°	506.4	518.7	531.8	550.2	564.0
12.5°	477.3	490.3	509.5	535.6	554.0
15°	445.8	460.4	484.2	518.7	541.0
17.5°	412.8	428.9	457.3	498.0	526.4
20°	379.1	396.7	428.2	474.2	508.8
22.5°	344.5	363.0	397.5	449.7	490.3
25°	309.2	329.2	366.8	423.6	468.8
27.5°	275.5	293.9	335.3	397.5	447.4
30°	238.6	259.4	303.9	370.6	422.8
32.5°	204.9	224.8	271.6	343.0	399.8
35°	168.0	190.3	240.2	315.4	376.8
37.5°	133.5	155.0	209.5	289.3	354.5
40°	99.8	122.0	178.0	263.2	331.5
42.5°	66.8	90.5	148.1	236.3	310.0
45°	36.8	59.1	120.5	213.3	288.5
47.5°	19.2	32.2	94.4	190.3	265.5
50°	14.6	17.6	69.8	165.0	239.4
52.5°	12.3	13.0	47.6	139.7	213.3
55°	10.0	10.7	32.2	117.4	186.5
57.5°	7.7	8.4	23.0	95.9	156.5
60°	6.1	6.9	19.2	73.7	128.9
62.5°	4.6	5.4	18.4	54.5	101.3
65°	3.8	4.6	16.1	36.8	74.4
67.5°	3.1	4.6	13.8	23.8	49.9
70°	3.1	6.1	11.5	15.3	27.6
72.5°	3.1	6.9	10.0	10.0	10.0
75°	3.1	8.4	9.2	8.4	8.4
77.5°	3.1	7.7	7.7	7.7	7.7
80°	3.1	6.9	6.9	6.9	6.1
82.5°	3.1	6.1	6.9	6.9	5.4
85°	3.1	6.1	6.1	6.1	4.6
87.5°	2.3	6.1	6.1	6.1	3.1
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	0.00	0.00	0.00	0.00	0.00	14.03	15.30	14.39	15.61	15.93
	3H	0.00	0.00	0.00	0.00	0.00	14.38	15.51	14.76	15.84	16.20
	4H	0.00	0.00	0.00	0.32	0.71	14.35	15.40	14.75	15.75	16.13
	6H	0.30	1.27	0.72	1.64	2.03	14.32	15.28	14.74	15.66	16.05
	8H	0.99	1.90	1.42	2.29	2.70	14.31	15.22	14.74	15.61	16.02
	12H	1.80	2.67	2.23	3.05	3.48	14.31	15.18	14.74	15.56	15.99
4H	2H	0.00	0.76	0.12	1.11	1.50	13.83	14.88	14.23	15.23	15.61
	3H	1.14	1.99	1.55	2.40	2.80	14.22	15.08	14.64	15.48	15.89
	4H	2.58	3.35	3.02	3.77	4.21	14.20	14.97	14.64	15.39	15.83
	6H	3.84	4.50	4.31	4.95	5.42	14.22	14.88	14.69	15.33	15.79
	8H	4.41	5.03	4.88	5.48	5.95	14.23	14.85	14.70	15.29	15.76
	12H	5.09	5.63	5.58	6.12	6.59	14.27	14.81	14.75	15.29	15.77
8H	4H	3.66	4.28	4.13	4.73	5.20	14.10	14.72	14.57	15.17	15.64
	6H	5.28	5.78	5.79	6.28	6.76	14.15	14.66	14.66	15.15	15.63
	8H	6.11	6.56	6.64	7.08	7.57	14.21	14.66	14.73	15.18	15.67
	12H	7.08	7.48	7.59	7.97	8.54	14.33	14.73	14.84	15.22	15.79
12H	4H	3.85	4.40	4.34	4.88	5.35	14.06	14.61	14.55	15.09	15.57
	6H	5.63	6.08	6.15	6.60	7.09	14.12	14.57	14.64	15.09	15.58
	8H	6.64	7.04	7.16	7.54	8.11	14.23	14.62	14.74	15.12	15.69