

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: P1060595

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060595
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-S795D930-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

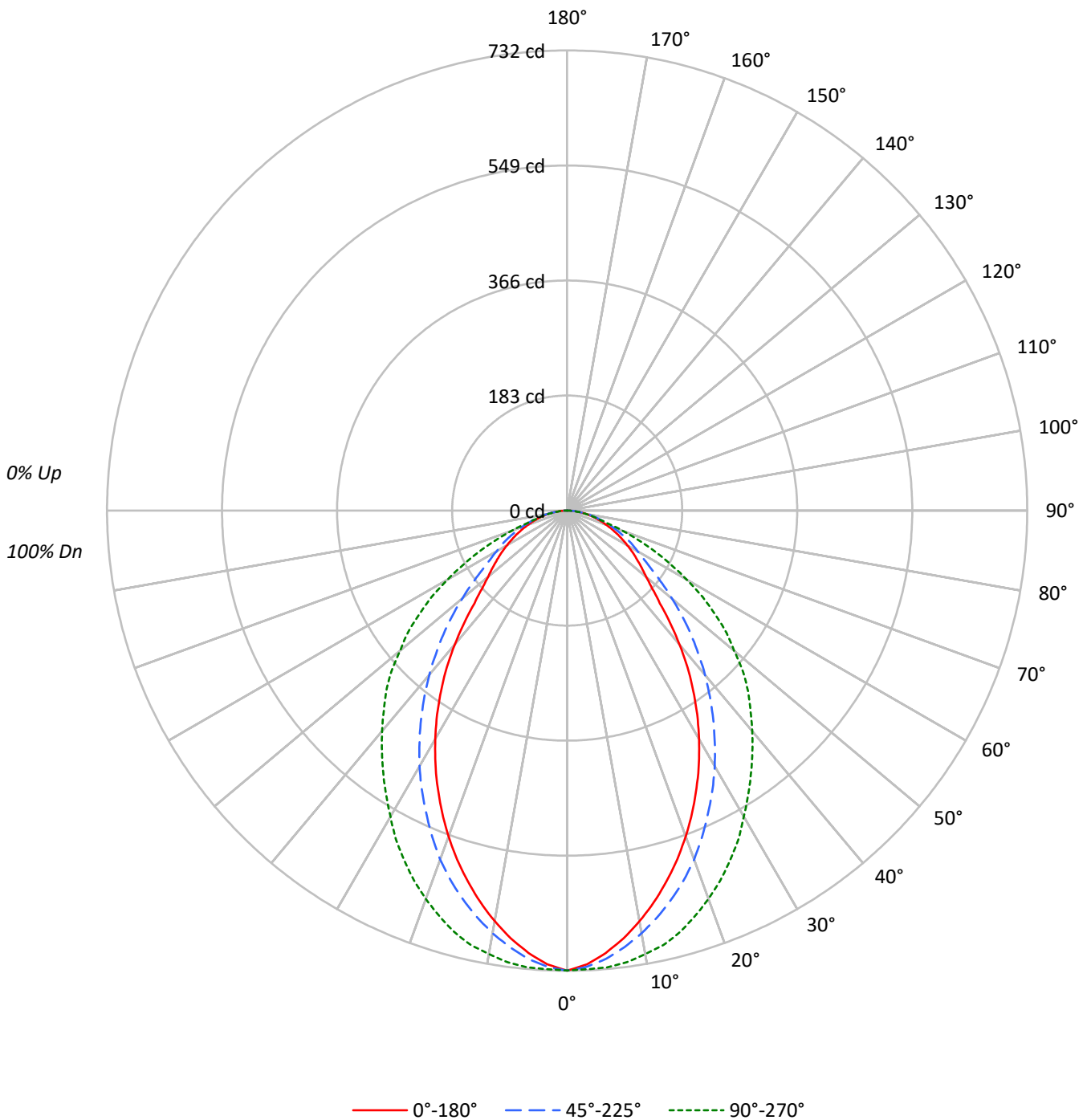
Lumens per Lamp: N/A
Luminaire Lumens: 1332.0 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6301	6301	6301
5°	6105	6185	6305
10°	5801	5969	6263
15°	5443	5709	6188
20°	5053	5411	6023
25°	4627	5042	5829
30°	4171	4667	5590
35°	3676	4256	5361
40°	3130	3837	5147
45°	2540	3390	4959
50°	2198	2918	4645
55°	2037	2476	4306
60°	1901	2232	3777
65°	1781	2095	3142
70°	1662	1931	2374
75°	1580	1787	1710
80°	1483	1636	1443
85°	1363	1512	1136

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°	67.6	5.1
10°-20°	181.6	13.6
20°-30°	247.9	18.6
30°-40°	259.8	19.5
40°-50°	224.8	16.9
50°-60°	168.9	12.7
60°-70°	108.9	8.2
70°-80°	55.9	4.2
80°-90°	16.7	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°	497.0	37.3
0°-40°	756.8	56.8
0°-60°	1150.5	86.4
0°-90°	1332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	706	717	716	721	729	66
15°	610	626	640	670	694	171
25°	487	505	531	572	614	223
35°	350	370	405	459	510	218
45°	209	230	278	347	407	164
55°	136	140	165	235	287	122
65°	87	89	103	124	154	87
75°	48	53	54	53	51	50
85°	14	16	15	15	12	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	731.7	731.7	731.7	731.7	731.7
2.5°	722.5	731.7	726.3	727.8	730.1
5°	706.3	717.1	715.5	720.9	729.4
7.5°	686.4	697.9	700.2	712.5	724.8
10°	663.4	676.4	682.6	701.0	716.3
12.5°	638.1	651.9	662.6	685.6	707.9
15°	610.5	625.8	640.4	669.5	694.1
17.5°	582.1	597.4	616.6	648.8	676.4
20°	551.4	568.3	590.5	624.3	657.3
22.5°	520.0	537.6	561.4	598.2	636.6
25°	487.0	505.4	530.7	572.1	613.5
27.5°	454.0	472.4	500.8	544.5	589.8
30°	419.5	438.7	469.4	516.9	562.2
32.5°	385.0	405.7	437.2	487.8	536.1
35°	349.7	369.7	404.9	458.6	510.0
37.5°	314.4	335.2	372.7	430.3	483.9
40°	278.4	299.9	341.3	401.9	457.9
42.5°	242.4	265.4	309.1	372.7	431.8
45°	208.6	230.1	278.4	346.7	407.2
47.5°	183.3	197.9	247.7	321.3	379.6
50°	164.1	171.8	217.8	293.7	346.7
52.5°	149.6	154.9	190.2	263.8	319.8
55°	135.7	140.3	164.9	235.4	286.8
57.5°	123.5	125.8	145.7	207.8	255.4
60°	110.4	112.7	129.6	177.9	219.3
62.5°	98.9	100.5	116.6	149.6	186.4
65°	87.4	89.0	102.8	124.2	154.2
67.5°	76.7	79.0	89.7	101.2	122.7
70°	66.0	70.6	76.7	82.1	94.3
72.5°	56.8	61.4	64.4	66.0	66.7
75°	47.5	52.9	53.7	52.9	51.4
77.5°	38.3	42.9	42.9	41.4	39.9
80°	29.9	33.7	33.0	31.4	29.1
82.5°	22.2	24.5	23.8	22.2	19.9
85°	13.8	16.1	15.3	14.6	11.5
87.5°	6.9	9.2	8.4	7.7	4.6
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	12.83	14.31	13.19	14.63	14.94	16.60	18.08	16.97	18.40	18.71
	3H	14.48	15.81	14.86	16.14	16.50	17.71	19.04	18.09	19.37	19.73
	4H	15.15	16.40	15.55	16.75	17.13	18.00	19.25	18.40	19.60	19.98
	6H	15.67	16.81	16.08	17.18	17.57	18.20	19.35	18.61	19.72	20.11
	8H	15.85	16.94	16.27	17.33	17.73	18.25	19.35	18.68	19.74	20.14
	12H	15.97	17.02	16.40	17.40	17.83	18.28	19.33	18.71	19.71	20.14
4H	2H	13.61	14.86	14.01	15.21	15.59	16.76	18.00	17.16	18.35	18.73
	3H	15.47	16.51	15.88	16.91	17.31	18.07	19.10	18.48	19.50	19.91
	4H	16.28	17.21	16.71	17.63	18.07	18.48	19.41	18.91	19.82	20.26
	6H	16.93	17.73	17.38	18.18	18.64	18.79	19.60	19.25	20.05	20.51
	8H	17.15	17.91	17.62	18.35	18.82	18.89	19.64	19.35	20.09	20.55
	12H	17.32	18.00	17.81	18.48	18.95	18.95	19.62	19.43	20.10	20.57
8H	4H	16.63	17.38	17.09	17.83	18.30	18.61	19.37	19.08	19.81	20.28
	6H	17.42	18.04	17.92	18.54	19.01	19.02	19.65	19.52	20.14	20.62
	8H	17.74	18.30	18.26	18.81	19.30	19.17	19.73	19.69	20.24	20.73
	12H	18.01	18.50	18.52	18.99	19.56	19.30	19.79	19.81	20.28	20.85
12H	4H	16.66	17.33	17.14	17.81	18.28	18.62	19.29	19.10	19.77	20.24
	6H	17.48	18.04	18.00	18.55	19.04	19.05	19.61	19.56	20.12	20.60
	8H	17.87	18.36	18.38	18.86	19.42	19.25	19.74	19.76	20.23	20.80