

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: P1059081

Luminaire Tested: S123RDRP-S1000D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-65)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1000D950-X4F0-XX-UDD-SVL-W
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

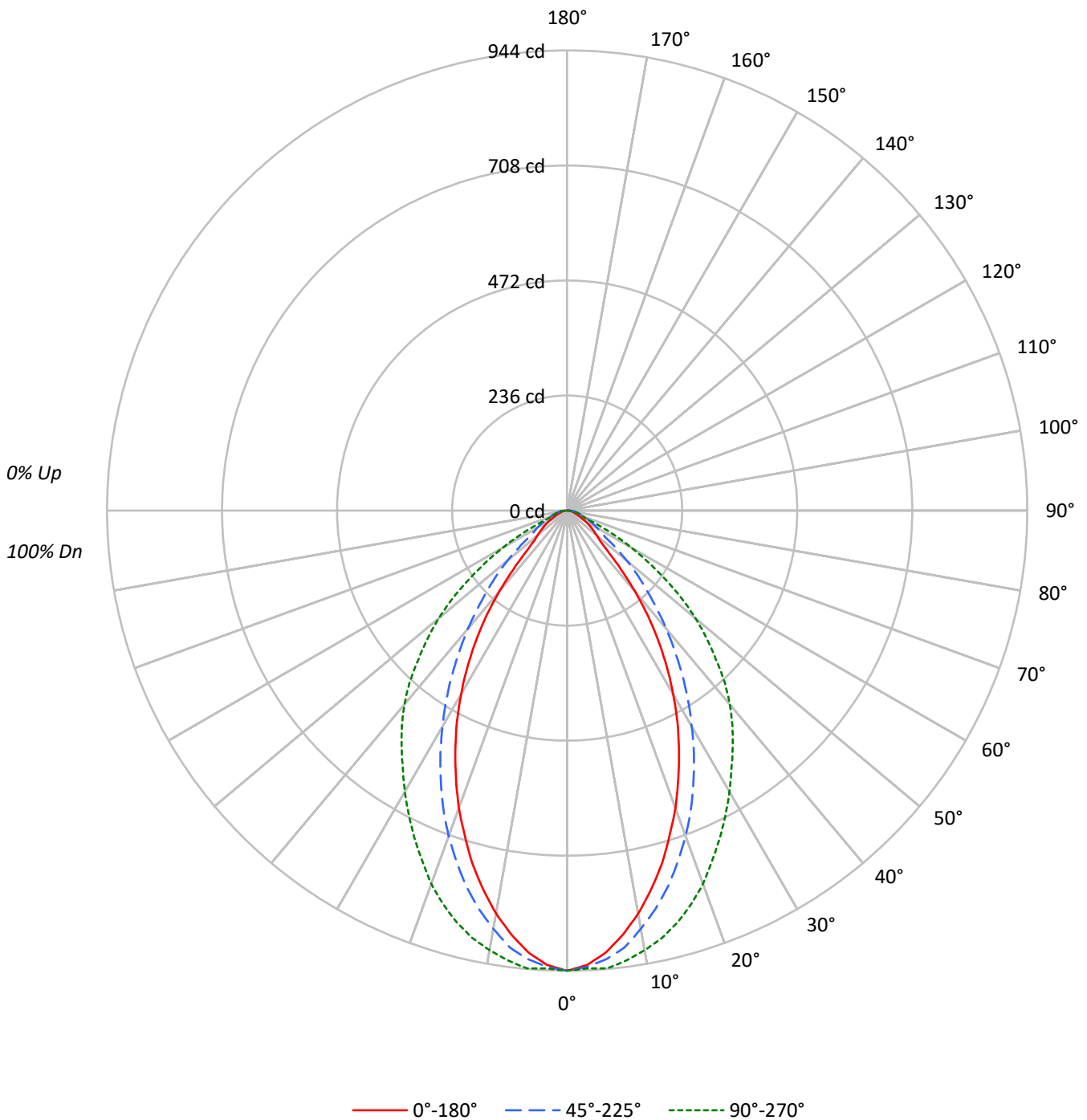
Lumens per Lamp: N/A
Luminaire Lumens: 1266.9 lumens
Efficiency: N/A
Efficacy: 36.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																												
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																												
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71																												
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	66	64																												
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58																												
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																												
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48																												
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																												
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40																												
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11083	11083	11083
5°	10724	10890	11111
10°	10009	10387	10917
15°	9121	9706	10632
20°	8116	8878	10182
25°	7033	7945	9601
30°	5898	6931	9029
35°	4672	5899	8488
40°	3306	4852	7962
45°	1946	3836	7164
50°	1456	2912	6275
55°	1224	1967	5040
60°	991	1679	3579
65°	781	1434	1889
70°	683	1246	1167
75°	640	1171	1116
80°	636	1271	1109
85°	795	1900	1428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7164 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	6.9
10°-20°	225.7	17.8
20°-30°	287.5	22.7
30°-40°	270.4	21.3
40°-50°	194.8	15.4
50°-60°	112.5	8.9
60°-70°	51.4	4.1
70°-80°	25.7	2.0
80°-90°	12.1	1.0
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°	600.1	47.4
0°-40°	870.5	68.7
0°-60°	1177.7	93.0
0°-90°	1266.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	944	944	944	944	944	
5°	910	925	924	933	943	85
15°	750	777	798	843	875	209
25°	543	571	613	681	741	248
35°	326	354	412	506	592	202
45°	117	147	231	347	431	99
55°	60	62	96	183	246	54
65°	28	40	52	57	68	29
75°	14	27	26	25	25	15
85°	6	13	14	13	11	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	943.8	943.8	943.8	943.8	943.8
2.5°	933.2	945.0	936.8	937.9	940.3
5°	909.8	925.0	923.9	933.2	942.6
7.5°	877.0	894.5	903.9	918.0	930.9
10°	839.4	859.4	871.1	896.9	915.6
12.5°	796.1	821.9	837.1	871.1	898.1
15°	750.3	777.3	798.4	843.0	874.6
17.5°	698.8	728.1	755.0	807.8	846.5
20°	649.5	677.7	710.5	767.9	814.8
22.5°	595.6	626.1	663.6	724.5	777.3
25°	542.8	571.0	613.2	681.2	741.0
27.5°	490.1	518.2	562.8	637.8	703.4
30°	435.0	464.3	511.2	594.4	665.9
32.5°	381.0	409.2	461.9	552.2	627.2
35°	325.9	354.1	411.5	506.5	592.1
37.5°	272.0	301.3	362.3	469.0	556.9
40°	215.7	247.4	316.5	430.3	519.4
42.5°	163.0	197.0	270.8	390.4	478.3
45°	117.2	146.6	231.0	347.0	431.4
47.5°	91.4	106.7	194.6	302.5	388.1
50°	79.7	82.1	159.4	261.4	343.5
52.5°	69.2	71.5	125.4	222.8	296.6
55°	59.8	62.1	96.1	182.9	246.2
57.5°	50.4	53.9	79.7	145.4	198.1
60°	42.2	46.9	71.5	111.4	152.4
62.5°	34.0	42.2	61.0	82.1	109.0
65°	28.1	39.9	51.6	57.4	68.0
67.5°	23.4	36.3	43.4	41.0	39.9
70°	19.9	32.8	36.3	32.8	34.0
72.5°	16.4	30.5	30.5	28.1	28.1
75°	14.1	27.0	25.8	24.6	24.6
77.5°	11.7	23.4	22.3	21.1	19.9
80°	9.4	18.8	18.8	17.6	16.4
82.5°	8.2	15.2	15.2	15.2	12.9
85°	5.9	12.9	14.1	12.9	10.6
87.5°	4.7	11.7	11.7	10.6	7.0
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	8.32	9.64	8.69	9.96	10.27	15.69	17.01	16.06	17.32	17.64
	3H	9.71	10.88	10.09	11.21	11.58	15.92	17.09	16.30	17.42	17.79
	4H	10.27	11.36	10.67	11.71	12.09	16.04	17.13	16.44	17.48	17.86
	6H	10.70	11.70	11.11	12.07	12.47	16.15	17.15	16.56	17.52	17.92
	8H	10.88	11.83	11.31	12.22	12.62	16.20	17.15	16.63	17.54	17.95
	12H	11.03	11.94	11.47	12.32	12.75	16.26	17.17	16.69	17.55	17.98
4H	2H	9.43	10.52	9.83	10.87	11.25	15.65	16.74	16.05	17.09	17.47
	3H	11.09	11.98	11.50	12.38	12.79	16.01	16.90	16.42	17.31	17.71
	4H	11.90	12.70	12.33	13.12	13.56	16.21	17.00	16.64	17.42	17.87
	6H	12.53	13.23	13.00	13.67	14.14	16.43	17.12	16.90	17.57	18.04
	8H	12.77	13.42	13.24	13.86	14.33	16.54	17.18	17.01	17.63	18.10
	12H	12.98	13.56	13.47	14.04	14.51	16.67	17.24	17.15	17.72	18.19
8H	4H	12.34	12.99	12.81	13.43	13.91	16.24	16.89	16.71	17.34	17.81
	6H	13.25	13.78	13.76	14.28	14.76	16.57	17.10	17.07	17.60	18.08
	8H	13.67	14.15	14.19	14.66	15.15	16.76	17.24	17.28	17.75	18.24
	12H	14.09	14.51	14.60	15.01	15.58	17.01	17.43	17.53	17.93	18.50
12H	4H	12.40	12.97	12.89	13.45	13.93	16.23	16.80	16.72	17.29	17.76
	6H	13.39	13.86	13.91	14.38	14.87	16.59	17.06	17.11	17.58	18.07
	8H	13.92	14.35	14.44	14.84	15.41	16.84	17.27	17.36	17.76	18.33