

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: P1059063

Luminaire Tested: S123RDRP-S1000D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059063
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-S1000D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

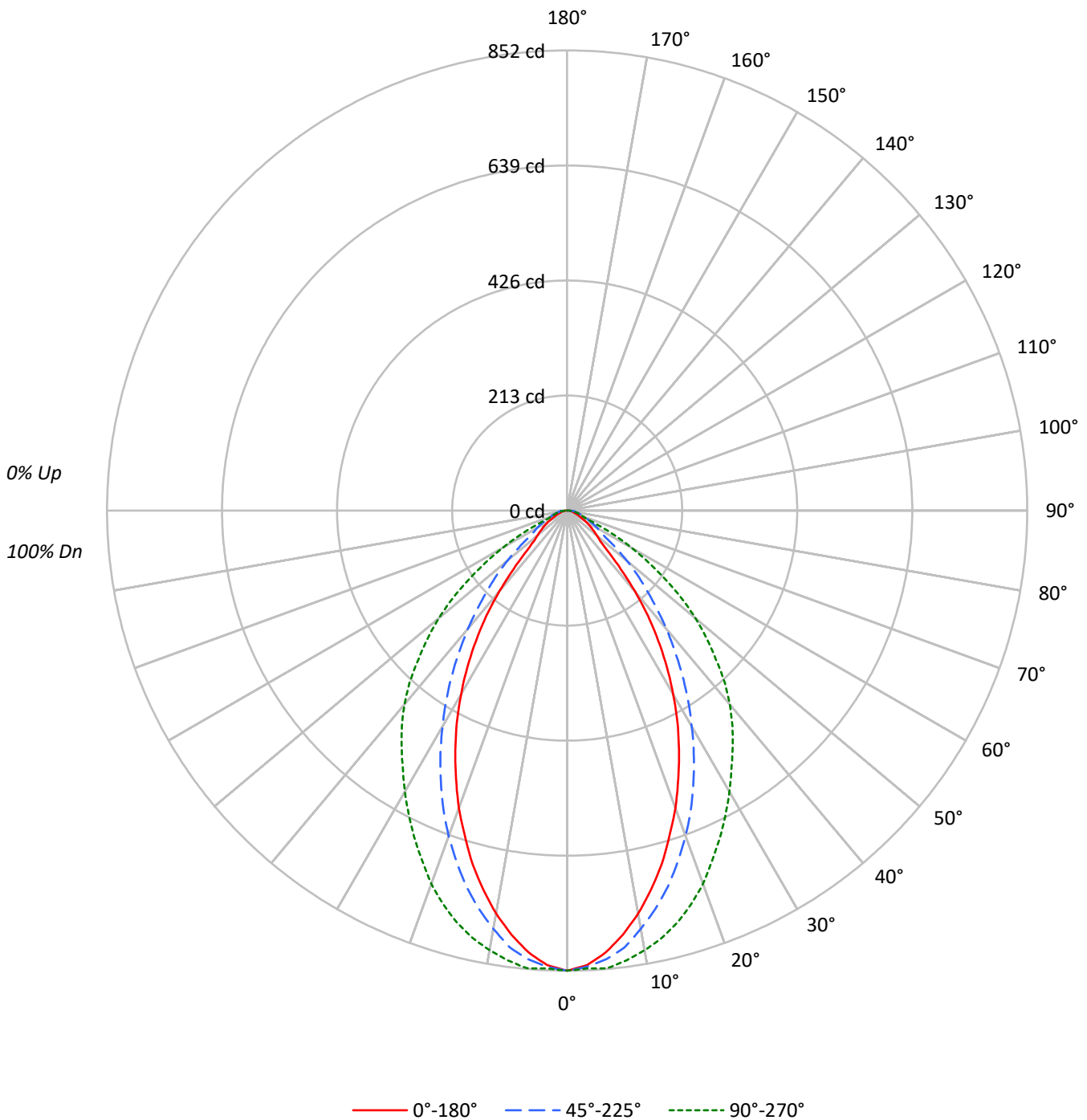
Lumens per Lamp: N/A
Luminaire Lumens: 1143.4 lumens
Efficiency: N/A
Efficacy: 32.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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	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°	10002	10002	10002
5°	9679	9828	10027
10°	9033	9374	9854
15°	8232	8760	9596
20°	7325	8012	9190
25°	6347	7170	8664
30°	5323	6255	8149
35°	4217	5324	7659
40°	2984	4379	7185
45°	1757	3461	6466
50°	1315	2629	5663
55°	1106	1777	4549
60°	895	1515	3232
65°	706	1295	1706
70°	618	1126	1054
75°	576	1057	1007
80°	575	1143	1001
85°	714	1711	1280

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6466 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	6.9
10°-20°	203.7	17.8
20°-30°	259.5	22.7
30°-40°	244.0	21.3
40°-50°	175.8	15.4
50°-60°	101.5	8.9
60°-70°	46.4	4.1
70°-80°	23.2	2.0
80°-90°	11.0	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°	541.6	47.4
0°-40°	785.6	68.7
0°-60°	1062.9	93.0
0°-90°	1143.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1143.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	821	835	834	842	851	76
15°	677	702	721	761	789	189
25°	490	515	553	615	669	224
35°	294	320	371	457	534	182
45°	106	132	208	313	389	89
55°	54	56	87	165	222	48
65°	25	36	47	52	61	26
75°	13	24	23	22	22	14
85°	5	12	13	12	10	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.8	851.8	851.8	851.8	851.8
2.5°	842.3	852.8	845.4	846.5	848.6
5°	821.1	834.9	833.8	842.3	850.7
7.5°	791.5	807.3	815.8	828.5	840.1
10°	757.6	775.6	786.2	809.5	826.4
12.5°	718.5	741.7	755.5	786.2	810.5
15°	677.2	701.5	720.6	760.8	789.4
17.5°	630.6	657.1	681.4	729.0	764.0
20°	586.2	611.6	641.2	693.1	735.4
22.5°	537.5	565.0	598.9	653.9	701.5
25°	489.9	515.3	553.4	614.8	668.7
27.5°	442.3	467.7	507.9	575.6	634.9
30°	392.6	419.0	461.3	536.5	601.0
32.5°	343.9	369.3	416.9	498.4	566.1
35°	294.2	319.5	371.4	457.1	534.3
37.5°	245.5	271.9	327.0	423.2	502.6
40°	194.7	223.3	285.7	388.3	468.7
42.5°	147.1	177.8	244.4	352.4	431.7
45°	105.8	132.3	208.4	313.2	389.4
47.5°	82.5	96.3	175.6	273.0	350.2
50°	72.0	74.1	143.9	236.0	310.0
52.5°	62.4	64.5	113.2	201.0	267.7
55°	54.0	56.1	86.8	165.1	222.2
57.5°	45.5	48.7	72.0	131.2	178.8
60°	38.1	42.3	64.5	100.5	137.6
62.5°	30.7	38.1	55.0	74.1	98.4
65°	25.4	36.0	46.6	51.8	61.4
67.5°	21.2	32.8	39.2	37.0	36.0
70°	18.0	29.6	32.8	29.6	30.7
72.5°	14.8	27.5	27.5	25.4	25.4
75°	12.7	24.3	23.3	22.2	22.2
77.5°	10.6	21.2	20.1	19.0	18.0
80°	8.5	16.9	16.9	15.9	14.8
82.5°	7.4	13.8	13.8	13.8	11.6
85°	5.3	11.6	12.7	11.6	9.5
87.5°	4.2	10.6	10.6	9.5	6.3
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	7.97	9.29	8.34	9.61	9.92	15.33	16.65	15.70	16.97	17.28
	3H	9.36	10.53	9.74	10.86	11.23	15.56	16.73	15.94	17.06	17.43
	4H	9.91	11.00	10.32	11.36	11.74	15.68	16.77	16.08	17.12	17.50
	6H	10.35	11.35	10.76	11.72	12.12	15.79	16.80	16.21	17.17	17.56
	8H	10.53	11.48	10.96	11.87	12.27	15.84	16.79	16.27	17.18	17.59
	12H	10.68	11.59	11.11	11.97	12.40	15.90	16.81	16.34	17.19	17.62
4H	2H	9.07	10.17	9.48	10.52	10.90	15.29	16.38	15.69	16.73	17.12
	3H	10.74	11.63	11.15	12.03	12.44	15.65	16.55	16.07	16.95	17.35
	4H	11.54	12.34	11.98	12.76	13.21	15.85	16.65	16.28	17.07	17.51
	6H	12.18	12.87	12.64	13.32	13.78	16.08	16.77	16.54	17.21	17.68
	8H	12.42	13.06	12.89	13.51	13.98	16.18	16.83	16.65	17.27	17.74
	12H	12.63	13.20	13.12	13.68	14.16	16.31	16.88	16.79	17.36	17.84
8H	4H	11.99	12.63	12.46	13.08	13.55	15.89	16.53	16.36	16.98	17.45
	6H	12.90	13.43	13.40	13.92	14.40	16.21	16.74	16.72	17.24	17.72
	8H	13.32	13.79	13.84	14.31	14.80	16.40	16.88	16.93	17.40	17.89
	12H	13.73	14.16	14.25	14.65	15.22	16.65	17.08	17.17	17.57	18.14
12H	4H	12.04	12.61	12.53	13.10	13.57	15.88	16.45	16.36	16.93	17.40
	6H	13.03	13.51	13.55	14.02	14.52	16.23	16.71	16.75	17.22	17.71
	8H	13.57	13.99	14.09	14.49	15.06	16.49	16.91	17.00	17.40	17.98