

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1059054

Luminaire Tested: S123RDR-S1000D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059054
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: S123RDR-S1000D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

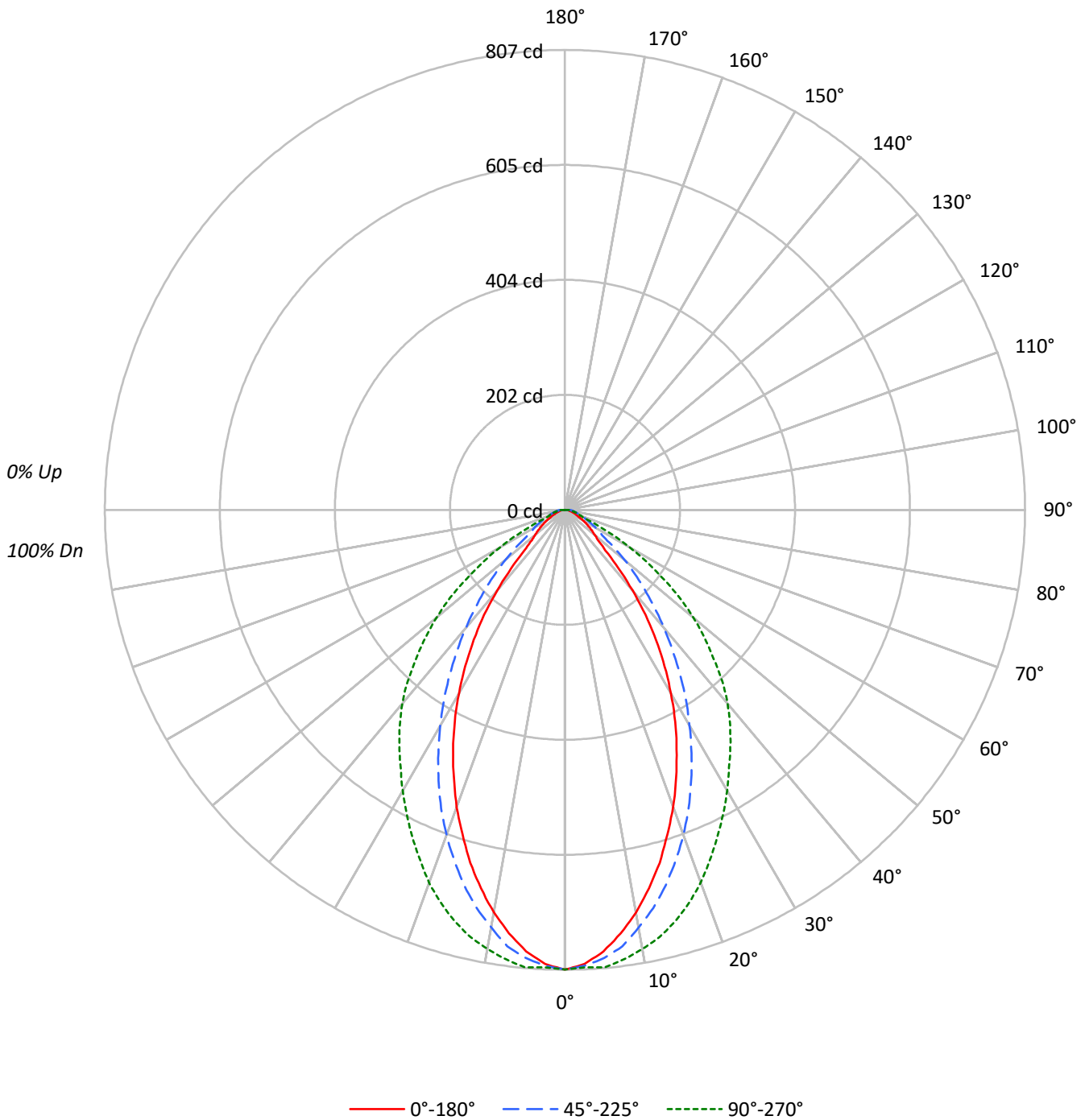
Lumens per Lamp: N/A
Luminaire Lumens: 1082.7 lumens
Efficiency: N/A
Efficacy: 30.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): 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°	9471	9471	9471
5°	9165	9306	9496
10°	8554	8876	9330
15°	7795	8294	9087
20°	6937	7588	8702
25°	6010	6789	8204
30°	5040	5924	7716
35°	3992	5042	7253
40°	2827	4146	6804
45°	1664	3278	6123
50°	1244	2490	5363
55°	1046	1683	4307
60°	848	1435	3060
65°	667	1225	1614
70°	584	1068	999
75°	544	998	953
80°	541	1082	947
85°	674	1617	1213

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6123 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	6.9
10°-20°	192.9	17.8
20°-30°	245.7	22.7
30°-40°	231.1	21.3
40°-50°	166.4	15.4
50°-60°	96.1	8.9
60°-70°	44.0	4.1
70°-80°	21.9	2.0
80°-90°	10.4	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°	512.8	47.4
0°-40°	743.9	68.7
0°-60°	1006.5	93.0
0°-90°	1082.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1082.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	778	790	790	798	806	72
15°	641	664	682	720	748	179
25°	464	488	524	582	633	212
35°	278	303	352	433	506	173
45°	100	125	197	297	369	85
55°	51	53	82	156	210	46
65°	24	34	44	49	58	25
75°	12	23	22	21	21	13
85°	5	11	12	11	9	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	806.6	806.6	806.6	806.6	806.6
2.5°	797.6	807.6	800.6	801.6	803.6
5°	777.5	790.5	789.5	797.6	805.6
7.5°	749.5	764.5	772.5	784.5	795.5
10°	717.4	734.4	744.4	766.5	782.5
12.5°	680.3	702.4	715.4	744.4	767.5
15°	641.2	664.3	682.3	720.4	747.5
17.5°	597.2	622.2	645.3	690.3	723.4
20°	555.1	579.1	607.2	656.3	696.4
22.5°	509.0	535.0	567.1	619.2	664.3
25°	463.9	487.9	524.0	582.1	633.2
27.5°	418.8	442.9	480.9	545.1	601.2
30°	371.7	396.8	436.9	508.0	569.1
32.5°	325.6	349.7	394.8	471.9	536.0
35°	278.5	302.6	351.7	432.8	506.0
37.5°	232.5	257.5	309.6	400.8	475.9
40°	184.4	211.4	270.5	367.7	443.9
42.5°	139.3	168.3	231.5	333.6	408.8
45°	100.2	125.2	197.4	296.6	368.7
47.5°	78.2	91.2	166.3	258.5	331.6
50°	68.1	70.1	136.3	223.4	293.6
52.5°	59.1	61.1	107.2	190.4	253.5
55°	51.1	53.1	82.2	156.3	210.4
57.5°	43.1	46.1	68.1	124.2	169.3
60°	36.1	40.1	61.1	95.2	130.3
62.5°	29.1	36.1	52.1	70.1	93.2
65°	24.0	34.1	44.1	49.1	58.1
67.5°	20.0	31.1	37.1	35.1	34.1
70°	17.0	28.1	31.1	28.1	29.1
72.5°	14.0	26.1	26.1	24.0	24.0
75°	12.0	23.0	22.0	21.0	21.0
77.5°	10.0	20.0	19.0	18.0	17.0
80°	8.0	16.0	16.0	15.0	14.0
82.5°	7.0	13.0	13.0	13.0	11.0
85°	5.0	11.0	12.0	11.0	9.0
87.5°	4.0	10.0	10.0	9.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)