

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: P1059063

Luminaire Tested: S123RDR-S1000D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S123RDR-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

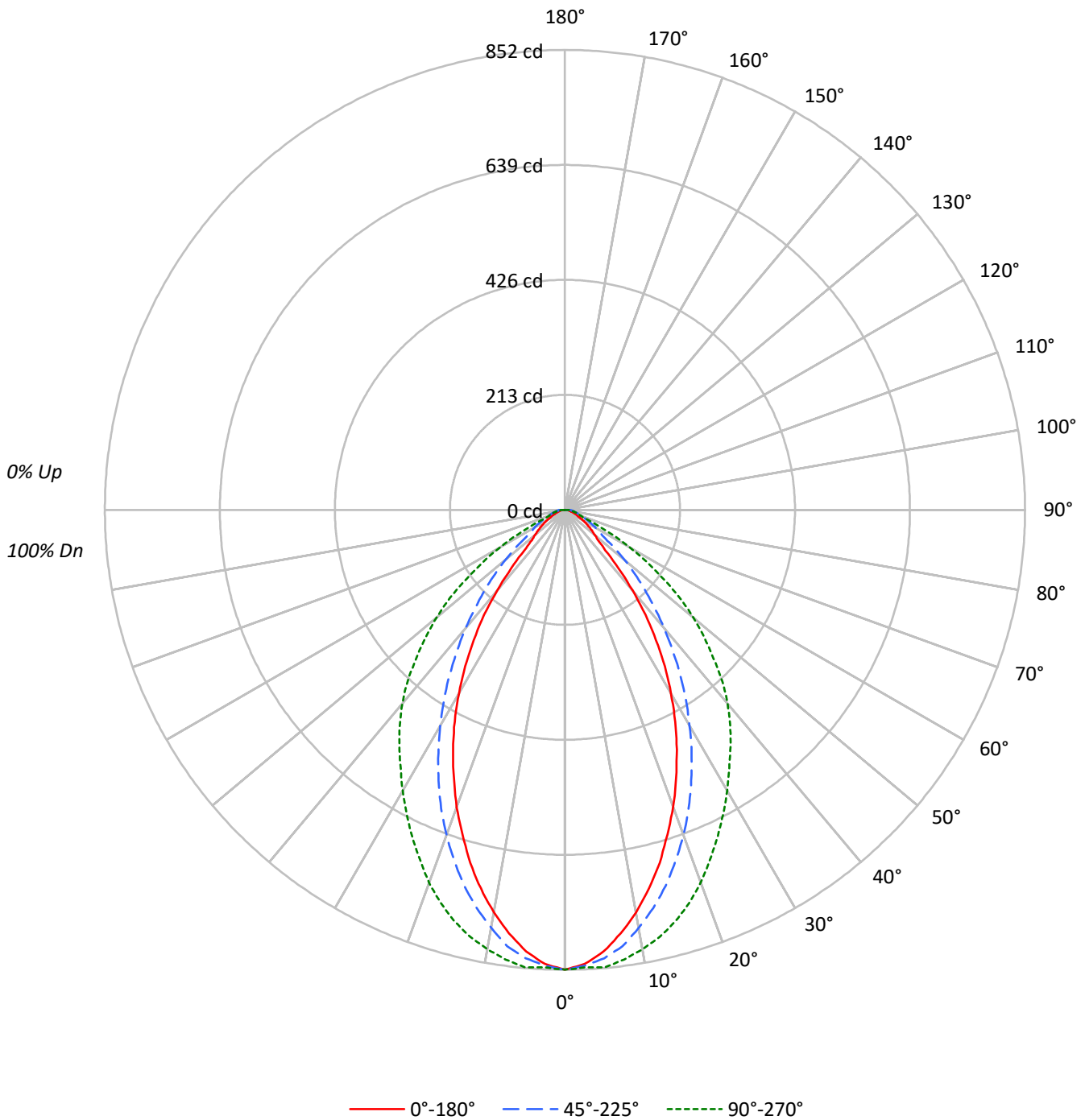
Lumens per Lamp: N/A
Luminaire Lumens: 1143.4 lumens
Efficiency: N/A
Efficacy: 32.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	66	64				64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58				58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37				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

(END OF REPORT)