

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: P1059296

Luminaire Tested: S123RDR-S560D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S560D930-X4F0-XX-UDD-SVL-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

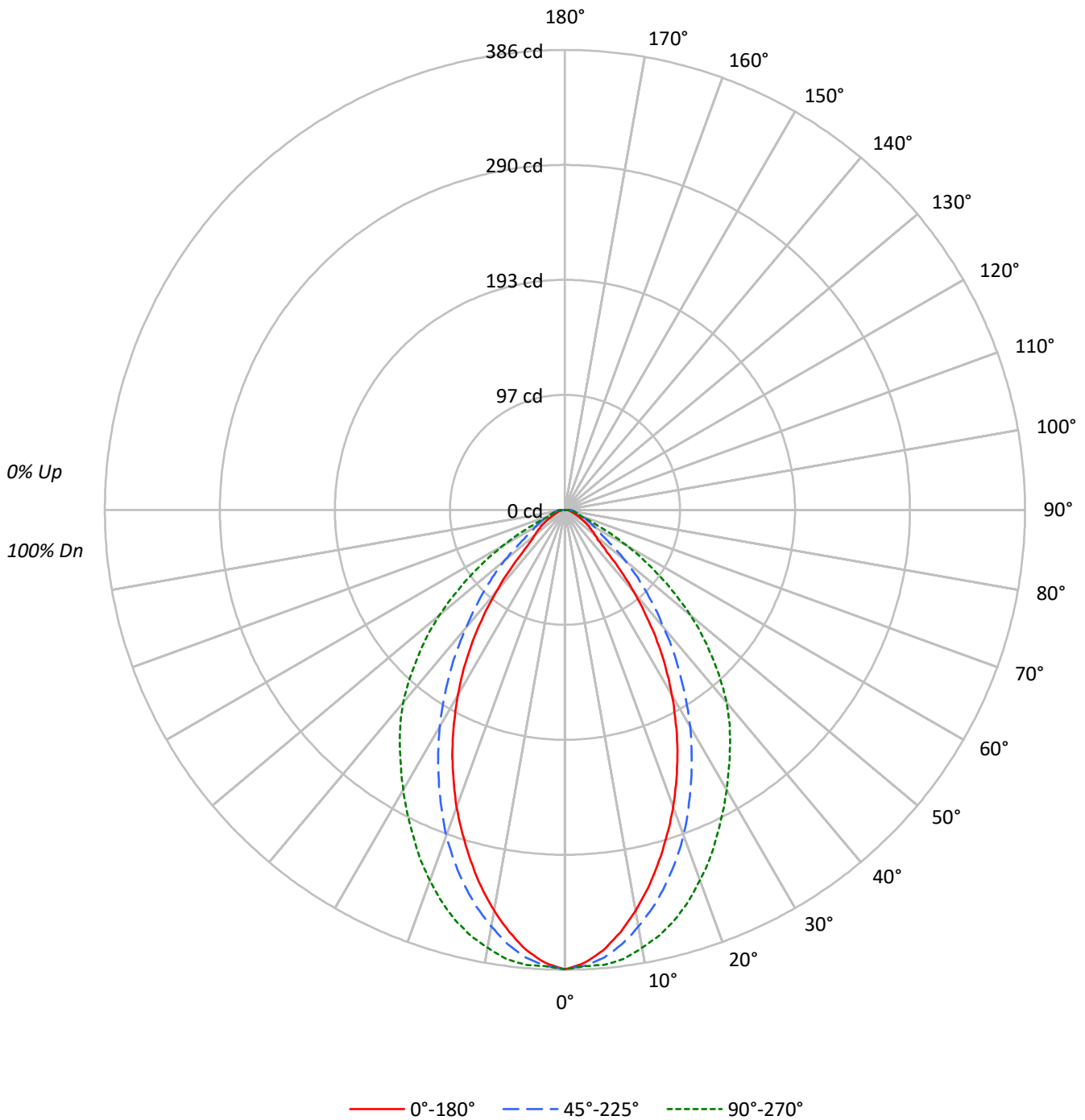
Lumens per Lamp: N/A
Luminaire Lumens: 516.4 lumens
Efficiency: N/A
Efficacy: 26.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	101	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	91	81	74	69	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	61	69	64	60	68	63	59	58
6	79	68	61	56	78	67	60	55	66	60	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	56	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	50	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4528	4528	4528
5°	4373	4446	4518
10°	4074	4235	4450
15°	3709	3962	4331
20°	3320	3636	4136
25°	2896	3246	3909
30°	2435	2847	3679
35°	1937	2413	3462
40°	1381	1967	3236
45°	822	1579	2898
50°	606	1204	2510
55°	508	819	1994
60°	411	674	1402
65°	328	578	750
70°	271	501	463
75°	254	485	436
80°	264	534	419
85°	377	754	525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2898 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	6.9
10°-20°	92.0	17.8
20°-30°	117.4	22.7
30°-40°	110.4	21.4
40°-50°	79.3	15.4
50°-60°	45.5	8.8
60°-70°	20.8	4.0
70°-80°	10.5	2.0
80°-90°	5.1	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°	244.8	47.4
0°-40°	355.2	68.8
0°-60°	480.1	93.0
0°-90°	516.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	516.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	386	386	386	386	386	
5°	371	378	377	380	383	34
15°	305	316	326	343	356	85
25°	224	234	250	278	302	102
35°	135	145	168	207	242	84
45°	50	60	95	140	174	41
55°	25	25	40	74	97	22
65°	12	16	21	23	27	12
75°	6	11	11	10	10	6
85°	3	6	6	5	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	385.6	385.6	385.6	385.6	385.6
2.5°	380.5	386.2	382.8	382.8	383.3
5°	371.0	378.3	377.2	380.0	383.3
7.5°	357.4	365.3	367.6	374.3	380.0
10°	341.7	350.7	355.2	365.9	373.2
12.5°	324.2	334.4	341.7	355.2	365.9
15°	305.1	315.8	325.9	343.4	356.3
17.5°	285.4	296.1	309.0	329.3	344.5
20°	265.7	276.4	291.0	312.4	331.0
22.5°	244.3	255.0	270.8	295.0	317.5
25°	223.5	233.6	250.5	277.5	301.7
27.5°	201.5	211.7	230.2	259.5	286.5
30°	179.6	189.7	210.0	241.5	271.3
32.5°	157.6	167.2	189.1	224.0	256.1
35°	135.1	144.7	168.3	206.6	241.5
37.5°	112.0	121.6	149.2	190.8	226.9
40°	90.1	100.8	128.3	175.1	211.1
42.5°	68.7	79.9	111.5	158.2	193.1
45°	49.5	60.2	95.1	140.2	174.5
47.5°	37.7	43.3	80.5	122.2	156.5
50°	33.2	33.8	65.9	105.8	137.4
52.5°	28.7	29.3	51.2	90.1	117.1
55°	24.8	25.3	40.0	73.7	97.4
57.5°	20.8	22.0	32.6	58.5	78.2
60°	17.5	19.7	28.7	44.5	59.7
62.5°	14.1	18.0	24.8	32.6	42.8
65°	11.8	16.3	20.8	23.1	27.0
67.5°	9.6	15.2	17.5	16.3	16.3
70°	7.9	13.5	14.6	13.5	13.5
72.5°	6.8	12.9	12.4	11.3	11.3
75°	5.6	11.3	10.7	9.6	9.6
77.5°	5.1	9.6	9.0	8.4	7.9
80°	3.9	7.9	7.9	7.3	6.2
82.5°	3.4	6.8	6.8	6.2	5.1
85°	2.8	5.6	5.6	5.1	3.9
87.5°	2.3	5.1	5.1	4.5	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)