

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: P1060511

Luminaire Tested: S124RDR-S575D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S575D930-X4F0-XX-UDD-SVL-S
Description: DEFINE 4 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

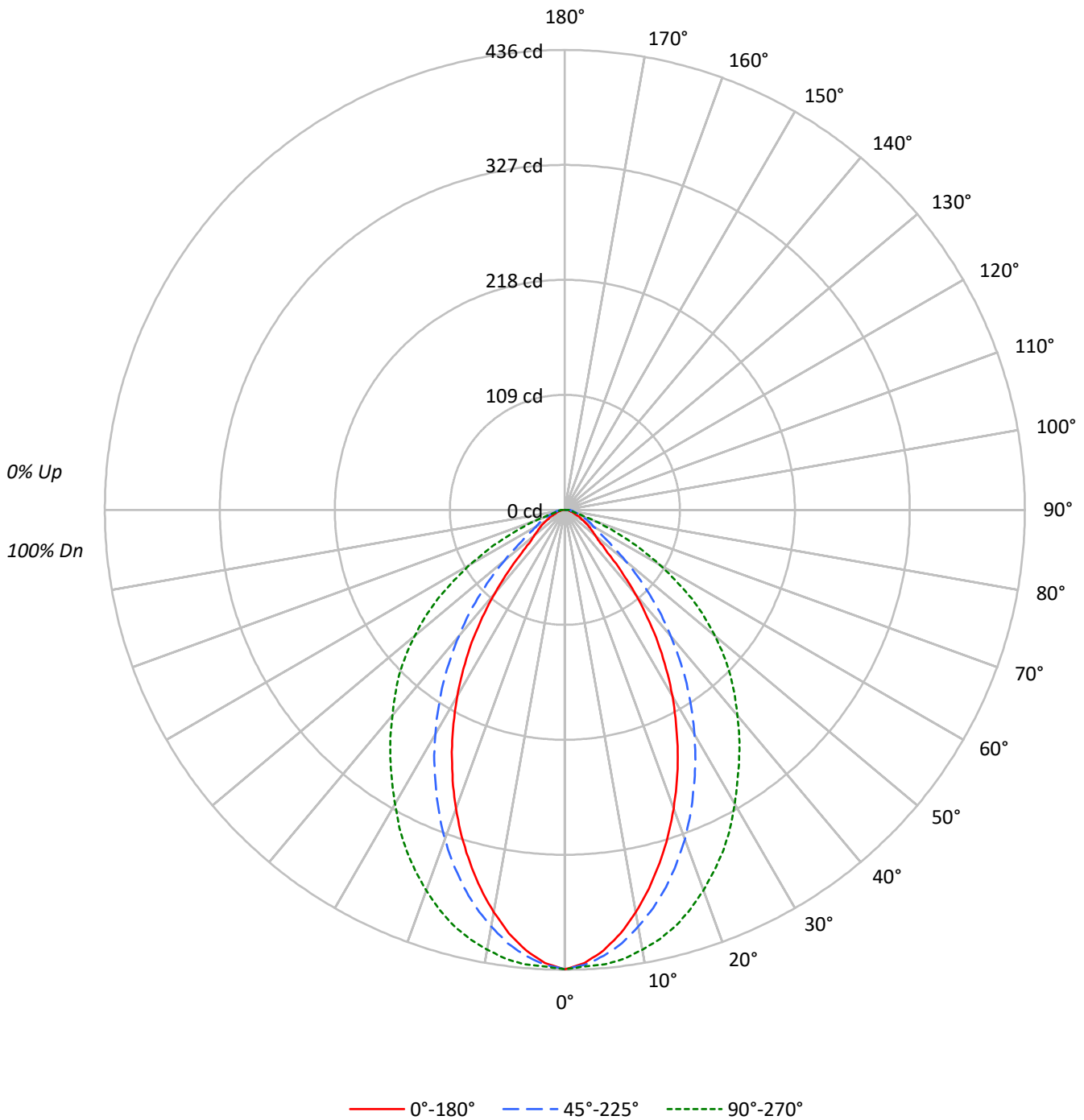
Lumens per Lamp: N/A
Luminaire Lumens: 612.3 lumens
Efficiency: N/A
Efficacy: 31.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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										
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	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	101	99	97	98	96	94	94	93	91	89						89														
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79						79														
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70						70														
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63						63														
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57						57														
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51						51														
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47						47														
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43						43														
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39						39														
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36						36														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3750	3750	3750
5°	3625	3669	3740
10°	3387	3507	3701
15°	3092	3299	3635
20°	2762	3046	3518
25°	2406	2748	3380
30°	2027	2440	3201
35°	1619	2114	3029
40°	1165	1756	2859
45°	701	1383	2706
50°	505	1002	2486
55°	425	674	2204
60°	343	534	1774
65°	271	485	1276
70°	237	405	682
75°	220	369	333
80°	218	387	302
85°	326	543	385

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2706 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	6.5
10°-20°	104.7	17.1
20°-30°	135.9	22.2
30°-40°	130.6	21.3
40°-50°	96.9	15.8
50°-60°	59.4	9.7
60°-70°	28.8	4.7
70°-80°	11.0	1.8
80°-90°	4.9	0.8
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°	280.6	45.8
0°-40°	411.3	67.2
0°-60°	567.6	92.7
0°-90°	612.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	612.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	419	426	424	428	433	39
15°	347	357	370	392	408	97
25°	253	266	289	326	356	116
35°	154	168	201	249	288	95
45°	58	72	114	173	222	48
55°	28	29	45	101	147	25
65°	13	14	24	38	63	14
75°	7	10	11	10	10	7
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°	435.5	435.5	435.5	435.5	435.5
2.5°	429.9	434.9	431.6	432.7	433.2
5°	419.4	425.5	424.4	428.3	432.7
7.5°	405.0	412.2	414.4	422.2	429.4
10°	387.3	396.1	401.1	413.9	423.3
12.5°	367.9	377.3	386.7	403.9	416.6
15°	346.8	356.8	370.1	392.2	407.8
17.5°	324.7	335.7	351.8	378.4	396.7
20°	301.4	313.0	332.4	361.8	383.9
22.5°	277.6	289.8	311.4	344.0	370.1
25°	253.2	265.9	289.2	326.3	355.7
27.5°	228.3	241.6	268.1	307.5	339.6
30°	203.9	216.6	245.4	288.1	321.9
32.5°	178.9	192.2	223.3	268.1	304.7
35°	154.0	167.9	201.1	248.8	288.1
37.5°	128.5	143.5	178.4	229.9	271.5
40°	103.6	118.0	156.2	210.5	254.3
42.5°	79.2	94.7	135.2	191.1	238.2
45°	57.6	72.0	113.6	173.4	222.2
47.5°	43.2	52.1	93.6	156.8	204.4
50°	37.7	39.3	74.8	138.5	185.6
52.5°	32.7	33.8	58.2	118.6	166.8
55°	28.3	29.4	44.9	101.4	146.8
57.5°	23.8	24.9	36.0	84.8	124.1
60°	19.9	21.1	31.0	67.6	103.0
62.5°	16.6	17.2	27.7	51.5	82.5
65°	13.3	14.4	23.8	37.7	62.6
67.5°	11.1	12.2	19.4	26.0	43.8
70°	9.4	12.2	16.1	18.3	27.1
72.5°	7.8	11.1	13.3	12.7	12.7
75°	6.6	10.5	11.1	10.0	10.0
77.5°	5.5	9.4	8.9	8.3	7.8
80°	4.4	7.8	7.8	6.6	6.1
82.5°	3.9	6.1	6.1	6.1	5.0
85°	3.3	5.5	5.5	5.0	3.9
87.5°	2.2	4.4	5.0	4.4	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)