

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: P1060346

Luminaire Tested: S124RDR-S1195D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D930-X4F0-XX-UDD-BVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

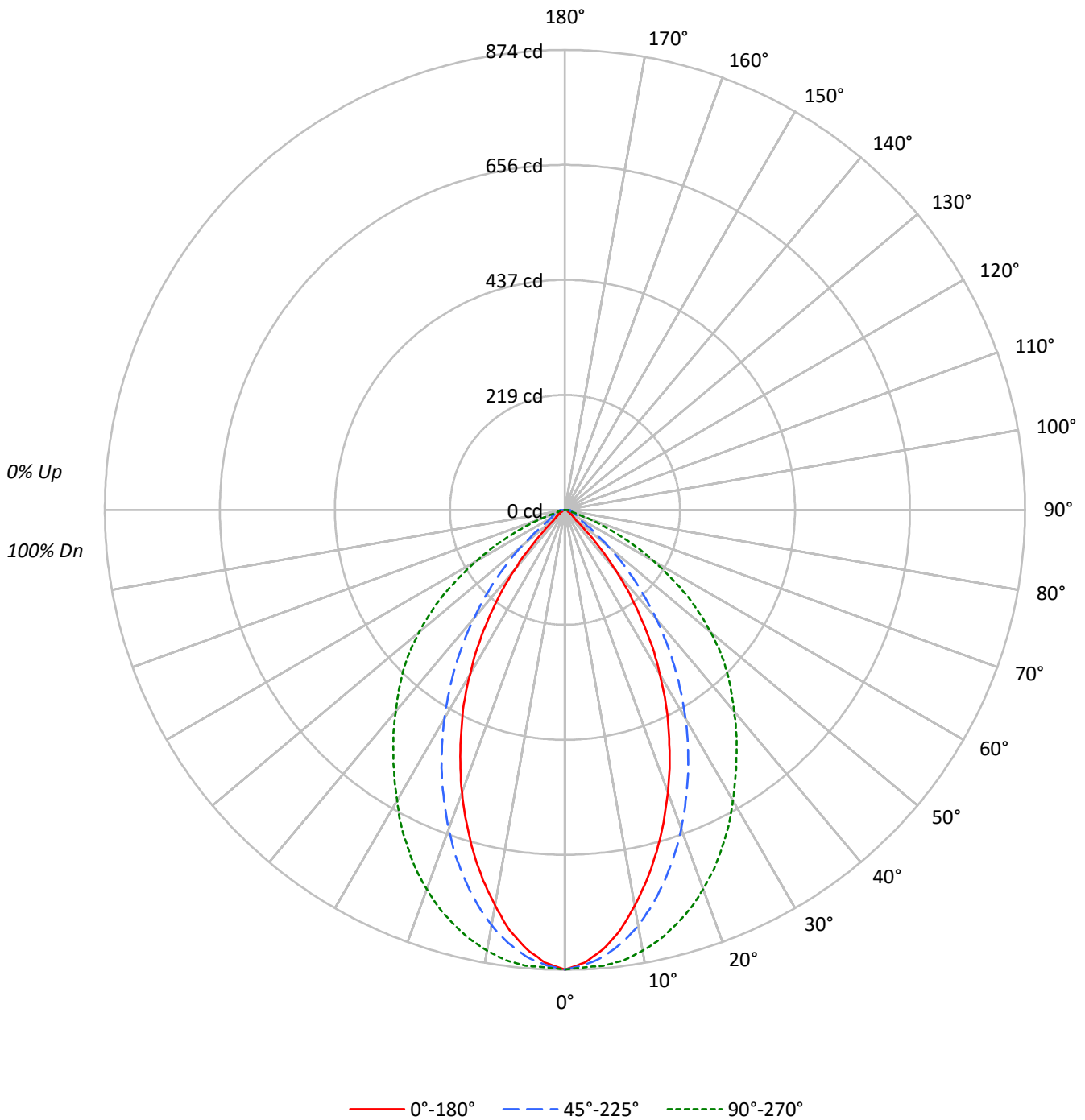
Lumens per Lamp: N/A
Luminaire Lumens: 1096.6 lumens
Efficiency: N/A
Efficacy: 26.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81				81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73				73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65				65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59				59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50				50
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46				46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7524	7524	7524
5°	7243	7363	7513
10°	6679	7013	7438
15°	5994	6510	7274
20°	5239	5918	7031
25°	4431	5256	6718
30°	3579	4557	6341
35°	2664	3808	5973
40°	1691	3018	5619
45°	676	2213	5299
50°	295	1411	4837
55°	225	730	4222
60°	160	498	3348
65°	118	495	2288
70°	116	438	1050
75°	153	462	423
80°	228	516	461
85°	454	919	682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5299 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	7.3
10°-20°	206.3	18.8
20°-30°	260.6	23.8
30°-40°	239.3	21.8
40°-50°	163.2	14.9
50°-60°	88.5	8.1
60°-70°	37.5	3.4
70°-80°	13.0	1.2
80°-90°	8.3	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°	546.8	49.9
0°-40°	786.2	71.7
0°-60°	1037.8	94.6
0°-90°	1096.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1096.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	838	851	852	859	869	78
15°	672	694	730	782	816	187
25°	466	496	553	639	707	213
35°	253	287	362	476	568	157
45°	56	89	182	322	435	51
55°	15	16	49	177	281	14
65°	6	7	24	56	112	6
75°	5	13	14	13	13	5
85°	5	9	9	9	7	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	873.7	873.7	873.7	873.7	873.7
2.5°	861.0	871.4	865.6	868.0	870.3
5°	837.9	850.6	851.8	858.7	869.1
7.5°	805.5	820.5	829.8	847.1	863.3
10°	763.8	782.3	802.0	829.8	850.6
12.5°	719.8	739.5	768.4	807.8	835.6
15°	672.4	694.4	730.2	782.3	815.9
17.5°	622.6	646.9	689.7	751.1	793.9
20°	571.7	598.3	645.8	715.2	767.3
22.5°	519.6	547.4	599.5	678.2	739.5
25°	466.4	496.5	553.2	638.8	707.1
27.5°	415.5	443.2	505.7	599.5	674.7
30°	359.9	391.2	458.3	559.0	637.7
32.5°	309.0	339.1	409.7	517.3	602.9
35°	253.4	287.0	362.2	475.6	568.2
37.5°	201.4	233.8	315.9	436.3	534.7
40°	150.4	184.0	268.5	396.9	499.9
42.5°	100.7	136.6	223.4	356.4	467.5
45°	55.5	89.1	181.7	321.7	435.1
47.5°	28.9	48.6	142.3	287.0	400.4
50°	22.0	26.6	105.3	248.8	361.1
52.5°	18.5	19.7	71.8	210.6	321.7
55°	15.0	16.2	48.6	177.1	281.2
57.5°	11.6	12.7	34.7	144.7	236.1
60°	9.3	10.4	28.9	111.1	194.4
62.5°	6.9	8.1	27.8	82.2	152.8
65°	5.8	6.9	24.3	55.5	112.3
67.5°	4.6	6.9	20.8	35.9	75.2
70°	4.6	9.3	17.4	23.1	41.7
72.5°	4.6	10.4	15.0	15.0	15.0
75°	4.6	12.7	13.9	12.7	12.7
77.5°	4.6	11.6	11.6	11.6	11.6
80°	4.6	10.4	10.4	10.4	9.3
82.5°	4.6	9.3	10.4	10.4	8.1
85°	4.6	9.3	9.3	9.3	6.9
87.5°	3.5	9.3	9.3	9.3	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)