

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: P1060592

Luminaire Tested: S124RDR-S795D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060592
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-S795D930-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

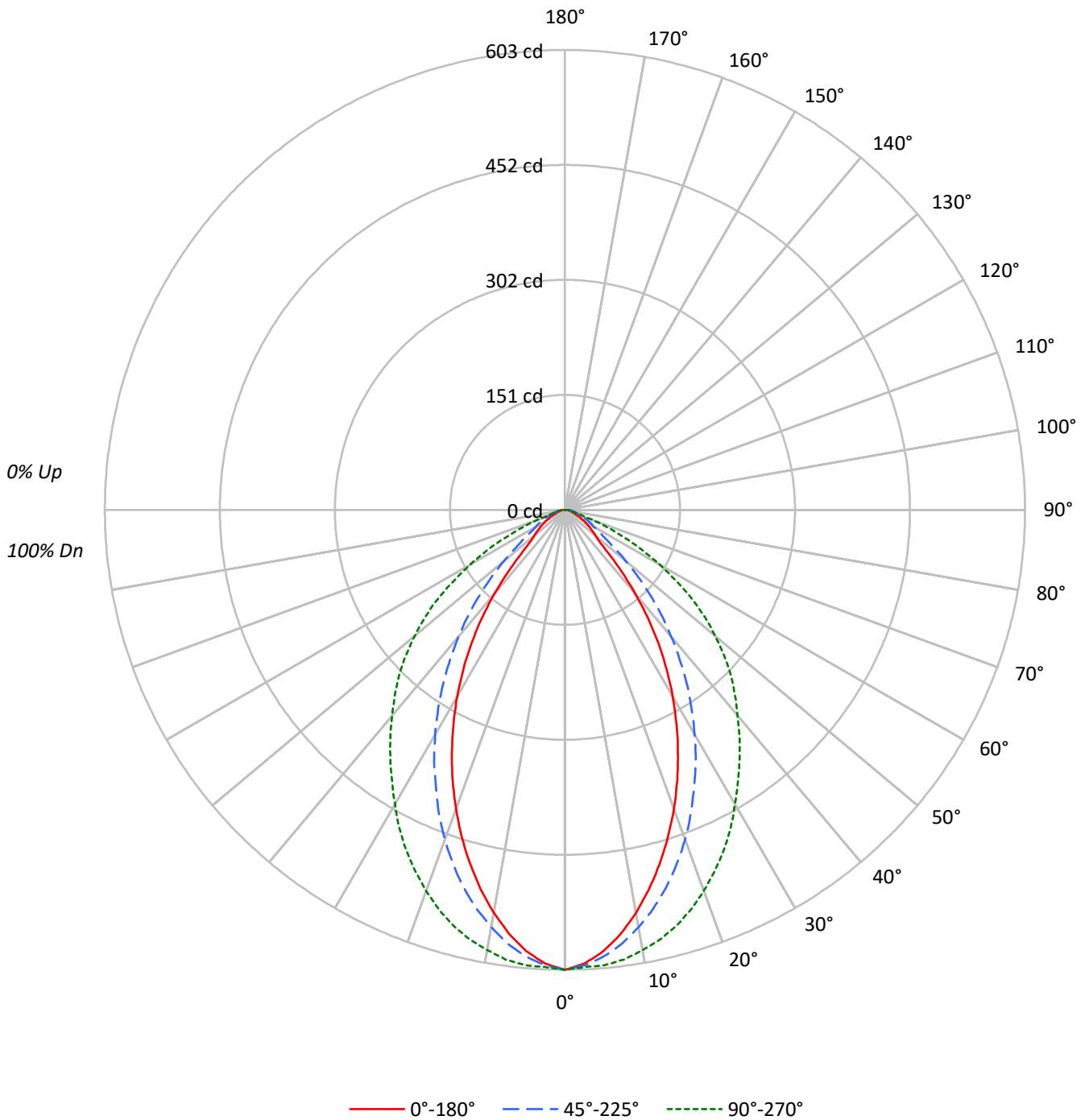
Lumens per Lamp: N/A
Luminaire Lumens: 847.9 lumens
Efficiency: N/A
Efficacy: 32.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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																		
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	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	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79																												
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70																												
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63																												
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57																												
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51																												
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47																												
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43																												
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39																												
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5193	5193	5193
5°	5020	5080	5179
10°	4689	4856	5125
15°	4282	4569	5033
20°	3824	4218	4872
25°	3331	3805	4679
30°	2807	3380	4432
35°	2242	2928	4193
40°	1613	2431	3958
45°	972	1916	3746
50°	699	1388	3443
55°	587	932	3052
60°	475	741	2458
65°	375	672	1767
70°	327	559	947
75°	306	509	459
80°	302	531	417
85°	454	761	534

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3746 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	6.5
10°-20°	145.0	17.1
20°-30°	188.2	22.2
30°-40°	180.9	21.3
40°-50°	134.2	15.8
50°-60°	82.2	9.7
60°-70°	39.9	4.7
70°-80°	15.2	1.8
80°-90°	6.8	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°	388.6	45.8
0°-40°	569.5	67.2
0°-60°	785.9	92.7
0°-90°	847.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	581	589	588	593	599	54
15°	480	494	512	543	565	134
25°	351	368	400	452	492	160
35°	213	232	278	344	399	132
45°	80	100	157	240	308	66
55°	39	41	62	140	203	35
65°	18	20	33	52	87	19
75°	9	15	15	14	14	10
85°	5	8	8	7	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.0	603.0	603.0	603.0	603.0
2.5°	595.3	602.2	597.6	599.2	599.9
5°	580.8	589.2	587.7	593.0	599.2
7.5°	560.8	570.8	573.9	584.6	594.6
10°	536.3	548.5	555.4	573.1	586.1
12.5°	509.4	522.5	535.5	559.3	576.9
15°	480.3	494.1	512.5	543.2	564.6
17.5°	449.6	464.9	487.2	524.0	549.3
20°	417.3	433.5	460.3	501.0	531.7
22.5°	384.4	401.2	431.2	476.4	512.5
25°	350.6	368.2	400.5	451.9	492.5
27.5°	316.1	334.5	371.3	425.8	470.3
30°	282.3	300.0	339.9	398.9	445.7
32.5°	247.8	266.2	309.2	371.3	422.0
35°	213.3	232.5	278.5	344.5	398.9
37.5°	178.0	198.7	247.0	318.4	375.9
40°	143.5	163.4	216.3	291.5	352.1
42.5°	109.7	131.2	187.2	264.7	329.9
45°	79.8	99.7	157.3	240.1	307.6
47.5°	59.8	72.1	129.7	217.1	283.1
50°	52.2	54.5	103.6	191.8	257.0
52.5°	45.3	46.8	80.6	164.2	230.9
55°	39.1	40.7	62.1	140.4	203.3
57.5°	33.0	34.5	49.9	117.4	171.8
60°	27.6	29.2	43.0	93.6	142.7
62.5°	23.0	23.8	38.4	71.3	114.3
65°	18.4	19.9	33.0	52.2	86.7
67.5°	15.3	16.9	26.9	36.1	60.6
70°	13.0	16.9	22.2	25.3	37.6
72.5°	10.7	15.3	18.4	17.6	17.6
75°	9.2	14.6	15.3	13.8	13.8
77.5°	7.7	13.0	12.3	11.5	10.7
80°	6.1	10.7	10.7	9.2	8.4
82.5°	5.4	8.4	8.4	8.4	6.9
85°	4.6	7.7	7.7	6.9	5.4
87.5°	3.1	6.1	6.9	6.1	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)