

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: P1060589

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060589
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-S795D930-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

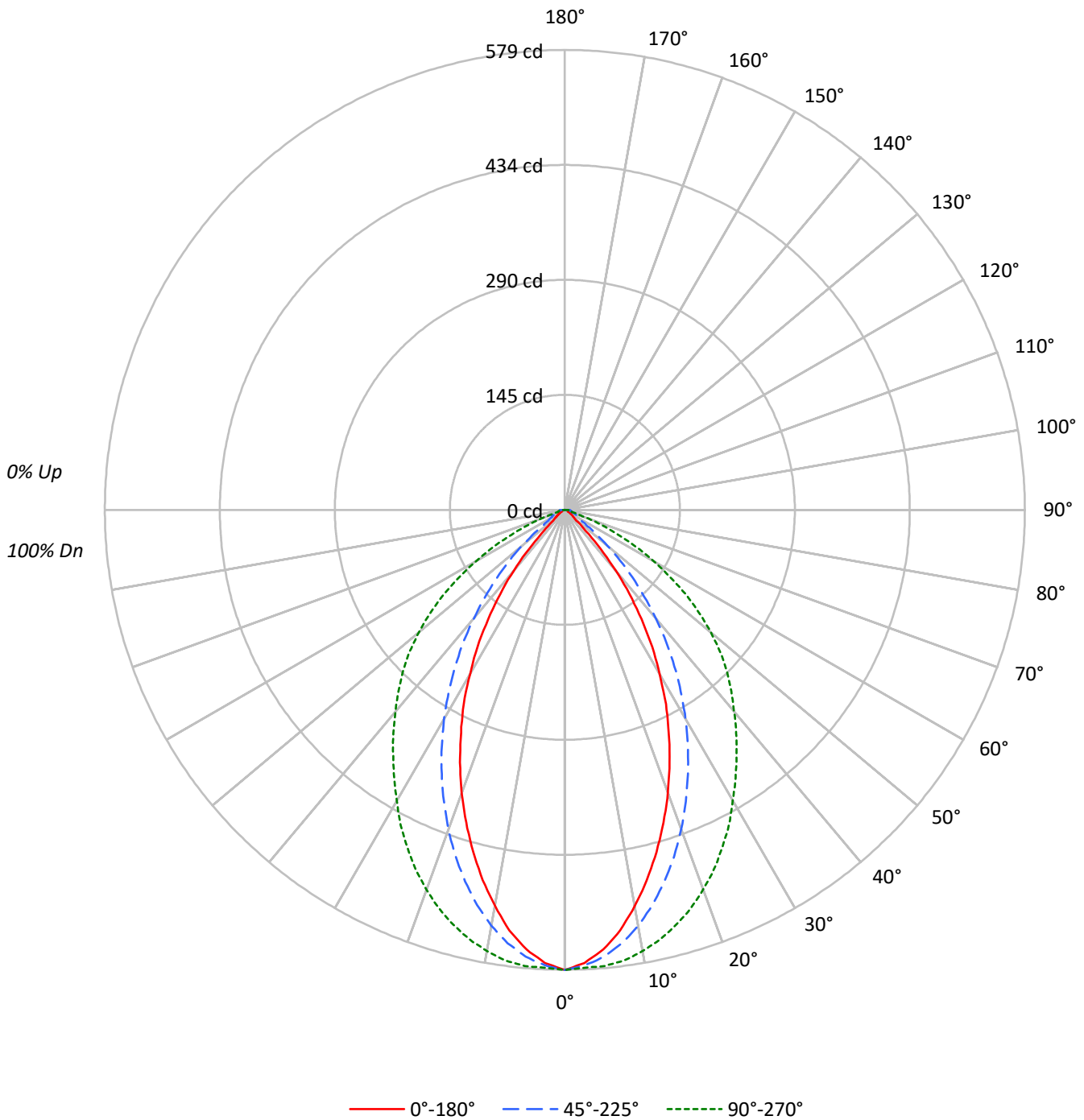
Lumens per Lamp: N/A
Luminaire Lumens: 727.1 lumens
Efficiency: N/A
Efficacy: 28.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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				
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81				
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73				
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65				
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59				
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50				
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46				
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42				
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4988	4988	4988
5°	4803	4882	4982
10°	4428	4650	4932
15°	3974	4317	4823
20°	3474	3924	4663
25°	2938	3485	4454
30°	2372	3022	4204
35°	1766	2525	3961
40°	1122	2001	3726
45°	448	1467	3513
50°	196	935	3207
55°	150	483	2800
60°	105	331	2220
65°	77	328	1516
70°	78	290	695
75°	103	306	279
80°	154	342	302
85°	306	603	454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3513 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	7.3
10°-20°	136.8	18.8
20°-30°	172.8	23.8
30°-40°	158.7	21.8
40°-50°	108.2	14.9
50°-60°	58.7	8.1
60°-70°	24.9	3.4
70°-80°	8.6	1.2
80°-90°	5.4	0.7
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°	362.6	49.9
0°-40°	521.3	71.7
0°-60°	688.1	94.6
0°-90°	727.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	727.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	556	564	565	569	576	51
15°	446	460	484	519	541	124
25°	309	329	367	424	469	141
35°	168	190	240	315	377	104
45°	37	59	120	213	288	34
55°	10	11	32	117	186	9
65°	4	5	16	37	74	4
75°	3	8	9	8	8	3
85°	3	6	6	6	5	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	579.3	579.3	579.3	579.3	579.3
2.5°	570.9	577.8	574.0	575.5	577.0
5°	555.6	564.0	564.8	569.4	576.3
7.5°	534.1	544.0	550.2	561.7	572.4
10°	506.4	518.7	531.8	550.2	564.0
12.5°	477.3	490.3	509.5	535.6	554.0
15°	445.8	460.4	484.2	518.7	541.0
17.5°	412.8	428.9	457.3	498.0	526.4
20°	379.1	396.7	428.2	474.2	508.8
22.5°	344.5	363.0	397.5	449.7	490.3
25°	309.2	329.2	366.8	423.6	468.8
27.5°	275.5	293.9	335.3	397.5	447.4
30°	238.6	259.4	303.9	370.6	422.8
32.5°	204.9	224.8	271.6	343.0	399.8
35°	168.0	190.3	240.2	315.4	376.8
37.5°	133.5	155.0	209.5	289.3	354.5
40°	99.8	122.0	178.0	263.2	331.5
42.5°	66.8	90.5	148.1	236.3	310.0
45°	36.8	59.1	120.5	213.3	288.5
47.5°	19.2	32.2	94.4	190.3	265.5
50°	14.6	17.6	69.8	165.0	239.4
52.5°	12.3	13.0	47.6	139.7	213.3
55°	10.0	10.7	32.2	117.4	186.5
57.5°	7.7	8.4	23.0	95.9	156.5
60°	6.1	6.9	19.2	73.7	128.9
62.5°	4.6	5.4	18.4	54.5	101.3
65°	3.8	4.6	16.1	36.8	74.4
67.5°	3.1	4.6	13.8	23.8	49.9
70°	3.1	6.1	11.5	15.3	27.6
72.5°	3.1	6.9	10.0	10.0	10.0
75°	3.1	8.4	9.2	8.4	8.4
77.5°	3.1	7.7	7.7	7.7	7.7
80°	3.1	6.9	6.9	6.9	6.1
82.5°	3.1	6.1	6.9	6.9	5.4
85°	3.1	6.1	6.1	6.1	4.6
87.5°	2.3	6.1	6.1	6.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)