

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: P1060602

Luminaire Tested: S124RDR-S795D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S795D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

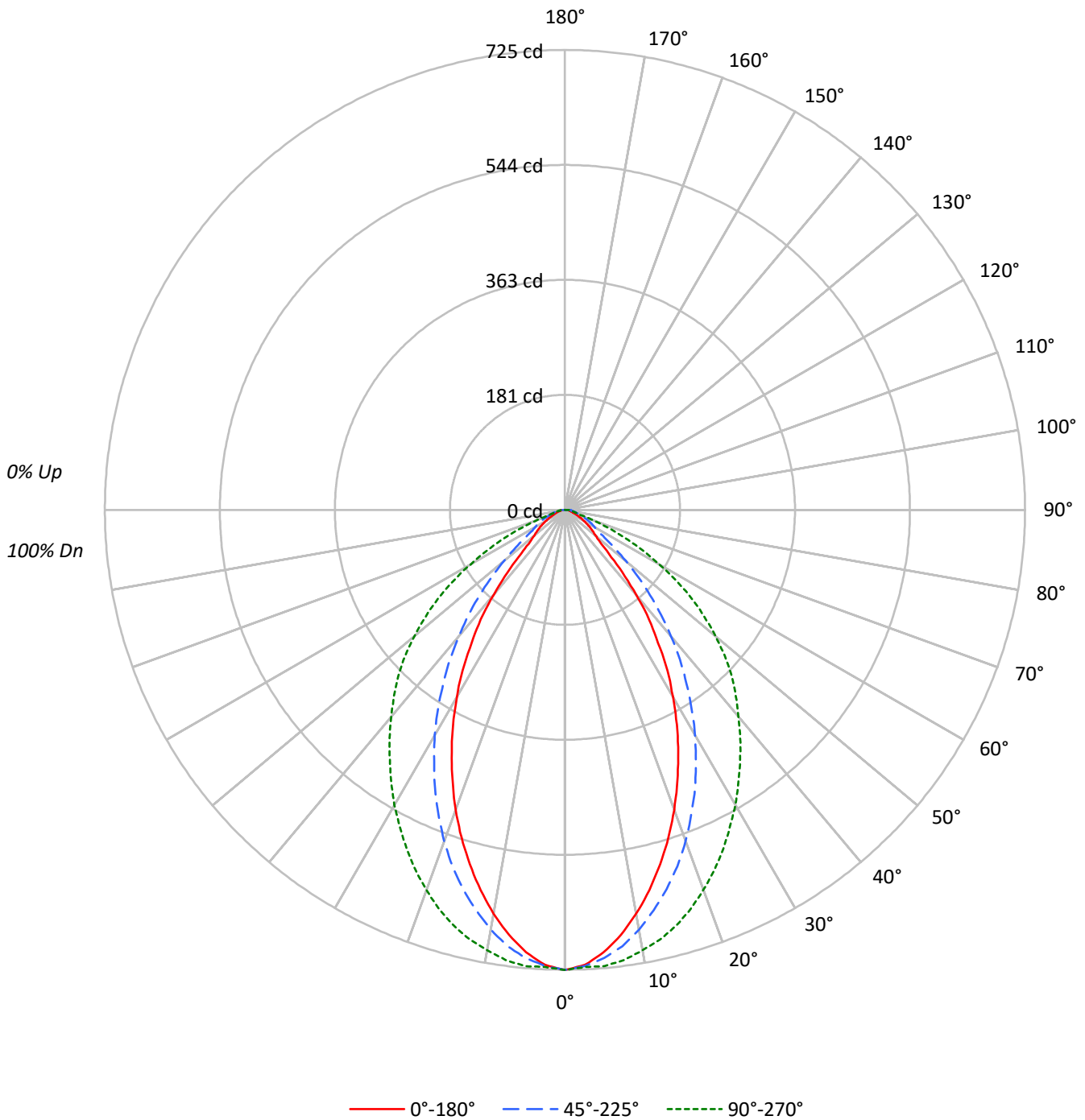
Lumens per Lamp: N/A
Luminaire Lumens: 1026.5 lumens
Efficiency: N/A
Efficacy: 39.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	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	104	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	66	75	70	66	73	68	65	63				63																
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57				57																
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51				51																
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47				47																
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43				43																
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39				39																
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36				36																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6246	6246	6246
5°	6052	6129	6241
10°	5655	5874	6165
15°	5158	5519	6047
20°	4611	5094	5844
25°	4011	4604	5605
30°	3384	4077	5343
35°	2692	3510	5060
40°	1958	2924	4782
45°	1184	2309	4529
50°	847	1672	4148
55°	718	1132	3662
60°	586	921	2959
65°	463	825	2129
70°	388	695	1123
75°	349	645	566
80°	362	645	560
85°	484	958	642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4529 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	6.5
10°-20°	175.0	17.0
20°-30°	226.9	22.1
30°-40°	218.4	21.3
40°-50°	162.5	15.8
50°-60°	99.9	9.7
60°-70°	49.1	4.8
70°-80°	19.1	1.9
80°-90°	8.7	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°	468.7	45.7
0°-40°	687.1	66.9
0°-60°	949.5	92.5
0°-90°	1026.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1026.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	700	711	709	716	722	65
15°	579	597	619	656	678	162
25°	422	445	485	545	590	193
35°	256	280	334	417	481	160
45°	97	121	190	292	372	81
55°	48	49	75	172	244	43
65°	23	24	40	65	104	23
75°	10	19	19	18	17	12
85°	5	9	10	10	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.3	725.3	725.3	725.3	725.3
2.5°	718.0	726.1	719.6	720.4	721.2
5°	700.1	710.7	709.0	715.5	722.0
7.5°	675.8	688.0	693.7	706.6	715.5
10°	646.7	660.4	671.8	692.8	705.0
12.5°	614.2	630.4	646.7	675.0	693.7
15°	578.6	597.2	619.1	656.4	678.3
17.5°	542.1	560.8	589.1	632.1	659.6
20°	503.2	523.5	555.9	603.7	637.7
22.5°	462.7	484.6	520.2	574.5	615.0
25°	422.2	444.9	484.6	545.4	589.9
27.5°	381.7	403.5	446.5	514.6	563.2
30°	340.3	363.0	410.0	481.3	537.3
32.5°	300.6	321.7	371.9	449.7	508.9
35°	256.1	280.4	333.9	417.3	481.3
37.5°	218.0	239.9	297.4	384.9	453.8
40°	174.2	198.5	260.1	353.3	425.4
42.5°	133.7	158.0	224.5	321.7	398.7
45°	97.2	120.7	189.6	292.5	371.9
47.5°	73.7	87.5	155.6	264.2	342.0
50°	63.2	67.3	124.8	233.4	309.6
52.5°	55.9	57.5	97.2	202.6	277.1
55°	47.8	49.4	75.4	171.8	243.9
57.5°	40.5	41.3	60.8	142.6	208.3
60°	34.0	34.8	53.5	114.3	171.8
62.5°	28.4	29.2	47.8	88.3	136.9
65°	22.7	24.3	40.5	64.8	104.5
67.5°	18.6	21.9	34.0	45.4	72.9
70°	15.4	21.1	27.6	31.6	44.6
72.5°	13.0	19.4	23.5	22.7	21.9
75°	10.5	18.6	19.4	17.8	17.0
77.5°	8.9	16.2	16.2	14.6	13.8
80°	7.3	13.0	13.0	13.0	11.3
82.5°	6.5	10.5	11.3	11.3	8.9
85°	4.9	8.9	9.7	9.7	6.5
87.5°	3.2	8.1	8.9	8.1	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)