

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: P1060584

Luminaire Tested: S124RDR-S795D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060584
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-S795D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

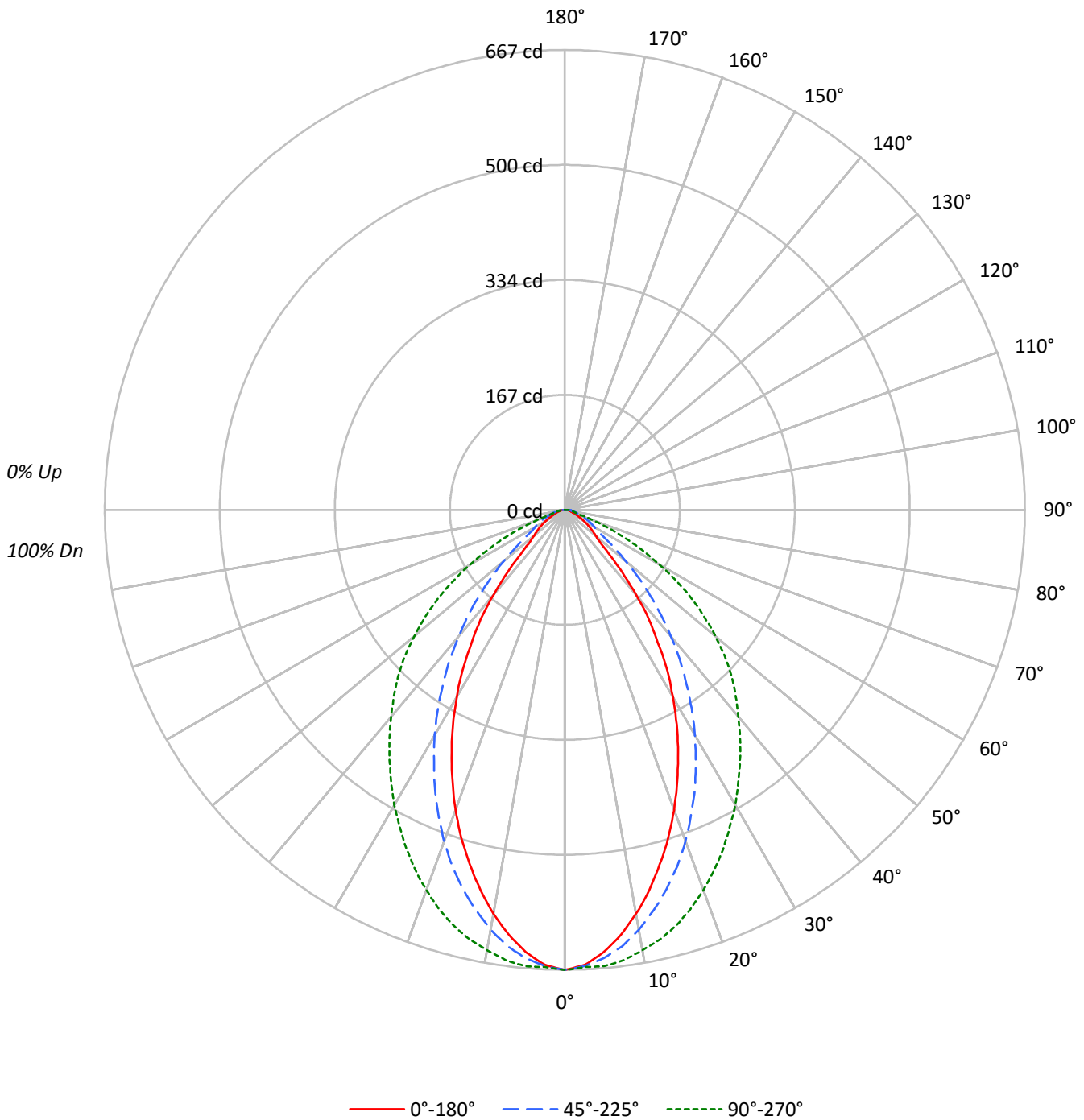
Lumens per Lamp: N/A
Luminaire Lumens: 944.4 lumens
Efficiency: N/A
Efficacy: 36.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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					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°	5746	5746	5746
5°	5568	5639	5742
10°	5203	5405	5671
15°	4745	5078	5563
20°	4243	4687	5377
25°	3690	4237	5157
30°	3113	3752	4915
35°	2477	3229	4656
40°	1802	2690	4400
45°	1090	2125	4167
50°	780	1538	3815
55°	661	1040	3369
60°	539	847	2723
65°	426	760	1960
70°	358	637	1032
75°	323	596	522
80°	332	590	516
85°	445	879	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4167 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	6.5
10°-20°	161.0	17.0
20°-30°	208.8	22.1
30°-40°	201.0	21.3
40°-50°	149.5	15.8
50°-60°	91.9	9.7
60°-70°	45.2	4.8
70°-80°	17.6	1.9
80°-90°	8.0	0.9
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°	431.2	45.7
0°-40°	632.2	66.9
0°-60°	873.6	92.5
0°-90°	944.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	944.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	644	654	652	658	664	60
15°	532	550	570	604	624	149
25°	388	409	446	502	543	178
35°	236	258	307	384	443	147
45°	90	111	174	269	342	74
55°	44	46	69	158	224	40
65°	21	22	37	60	96	21
75°	10	17	18	16	16	11
85°	4	8	9	9	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	667.3	667.3	667.3	667.3	667.3
2.5°	660.6	668.0	662.1	662.8	663.6
5°	644.2	653.9	652.4	658.3	664.3
7.5°	621.8	633.0	638.2	650.1	658.3
10°	595.0	607.6	618.1	637.5	648.6
12.5°	565.1	580.1	595.0	621.1	638.2
15°	532.3	549.5	569.6	603.9	624.0
17.5°	498.8	515.9	542.0	581.5	606.9
20°	463.0	481.6	511.5	555.5	586.8
22.5°	425.7	445.9	478.7	528.6	565.9
25°	388.4	409.3	445.9	501.8	542.8
27.5°	351.2	371.3	410.8	473.4	518.2
30°	313.1	334.0	377.3	442.9	494.3
32.5°	276.6	296.0	342.2	413.8	468.2
35°	235.6	258.0	307.2	384.0	442.9
37.5°	200.6	220.7	273.6	354.1	417.5
40°	160.3	182.7	239.3	325.1	391.4
42.5°	123.0	145.4	206.5	296.0	366.8
45°	89.5	111.1	174.5	269.2	342.2
47.5°	67.8	80.5	143.1	243.1	314.6
50°	58.2	61.9	114.8	214.7	284.8
52.5°	51.4	52.9	89.5	186.4	255.0
55°	44.0	45.5	69.3	158.1	224.4
57.5°	37.3	38.0	55.9	131.2	191.6
60°	31.3	32.1	49.2	105.1	158.1
62.5°	26.1	26.8	44.0	81.3	126.0
65°	20.9	22.4	37.3	59.6	96.2
67.5°	17.1	20.1	31.3	41.8	67.1
70°	14.2	19.4	25.3	29.1	41.0
72.5°	11.9	17.9	21.6	20.9	20.1
75°	9.7	17.1	17.9	16.4	15.7
77.5°	8.2	14.9	14.9	13.4	12.7
80°	6.7	11.9	11.9	11.9	10.4
82.5°	6.0	9.7	10.4	10.4	8.2
85°	4.5	8.2	8.9	8.9	6.0
87.5°	3.0	7.5	8.2	7.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)