

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: P1060586

Luminaire Tested: S124RDR-S795D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S795D927-X4F0-XX-UDD-WVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

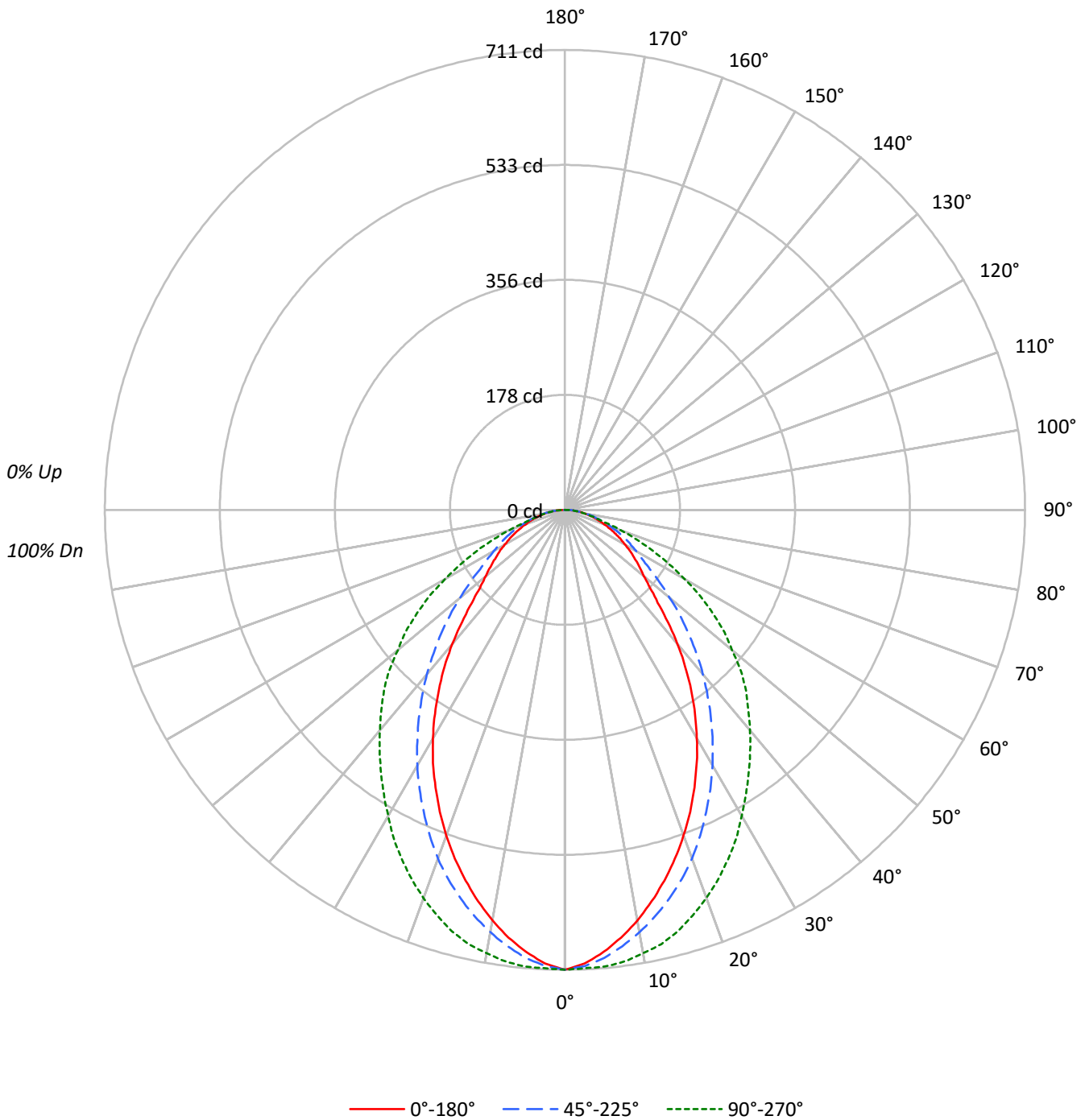
Lumens per Lamp: N/A
Luminaire Lumens: 1294.3 lumens
Efficiency: N/A
Efficacy: 50.2 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75				75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65				65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57				57
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50				50
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45				45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41				41
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37				37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34				34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31				31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6122	6122	6122
5°	5932	6010	6126
10°	5636	5799	6086
15°	5288	5547	6012
20°	4910	5258	5852
25°	4496	4900	5665
30°	4053	4535	5431
35°	3572	4137	5210
40°	3041	3728	5001
45°	2468	3294	4819
50°	2137	2835	4512
55°	1980	2405	4184
60°	1848	2168	3670
65°	1732	2036	3052
70°	1614	1876	2309
75°	1537	1737	1660
80°	1443	1587	1403
85°	1324	1472	1107

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4819 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	5.1
10°-20°	176.4	13.6
20°-30°	240.9	18.6
30°-40°	252.4	19.5
40°-50°	218.5	16.9
50°-60°	164.1	12.7
60°-70°	105.8	8.2
70°-80°	54.3	4.2
80°-90°	16.2	1.3
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°	483.0	37.3
0°-40°	735.3	56.8
0°-60°	1117.9	86.4
0°-90°	1294.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1294.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	686	697	695	700	709	64
15°	593	608	622	650	674	166
25°	473	491	516	556	596	217
35°	340	359	394	446	496	212
45°	203	224	270	337	396	160
55°	132	136	160	229	279	119
65°	85	86	100	121	150	84
75°	46	51	52	51	50	49
85°	13	16	15	14	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.9	710.9	710.9	710.9	710.9
2.5°	702.0	710.9	705.7	707.2	709.4
5°	686.3	696.8	695.3	700.5	708.7
7.5°	666.9	678.1	680.4	692.3	704.2
10°	644.6	657.3	663.2	681.1	696.0
12.5°	620.0	633.4	643.8	666.2	687.8
15°	593.2	608.1	622.2	650.5	674.4
17.5°	565.6	580.5	599.1	630.4	657.3
20°	535.8	552.2	573.8	606.6	638.6
22.5°	505.2	522.4	545.5	581.2	618.5
25°	473.2	491.1	515.7	555.9	596.2
27.5°	441.2	459.0	486.6	529.1	573.1
30°	407.6	426.2	456.1	502.3	546.2
32.5°	374.1	394.2	424.8	473.9	520.9
35°	339.8	359.2	393.5	445.6	495.6
37.5°	305.5	325.6	362.2	418.1	470.2
40°	270.5	291.4	331.6	390.5	444.9
42.5°	235.5	257.8	300.3	362.2	419.5
45°	202.7	223.6	270.5	336.8	395.7
47.5°	178.1	192.3	240.7	312.2	368.9
50°	159.5	166.9	211.6	285.4	336.8
52.5°	145.3	150.5	184.8	256.3	310.7
55°	131.9	136.4	160.2	228.8	278.7
57.5°	120.0	122.2	141.6	201.9	248.1
60°	107.3	109.5	125.9	172.9	213.1
62.5°	96.1	97.6	113.3	145.3	181.1
65°	85.0	86.4	99.9	120.7	149.8
67.5°	74.5	76.8	87.2	98.4	119.2
70°	64.1	68.6	74.5	79.7	91.7
72.5°	55.1	59.6	62.6	64.1	64.8
75°	46.2	51.4	52.2	51.4	49.9
77.5°	37.3	41.7	41.7	40.2	38.7
80°	29.1	32.8	32.0	30.6	28.3
82.5°	21.6	23.8	23.1	21.6	19.4
85°	13.4	15.6	14.9	14.2	11.2
87.5°	6.7	8.9	8.2	7.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)