

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: P1060622

Luminaire Tested: S124RDR-S795D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060622
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-S795D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

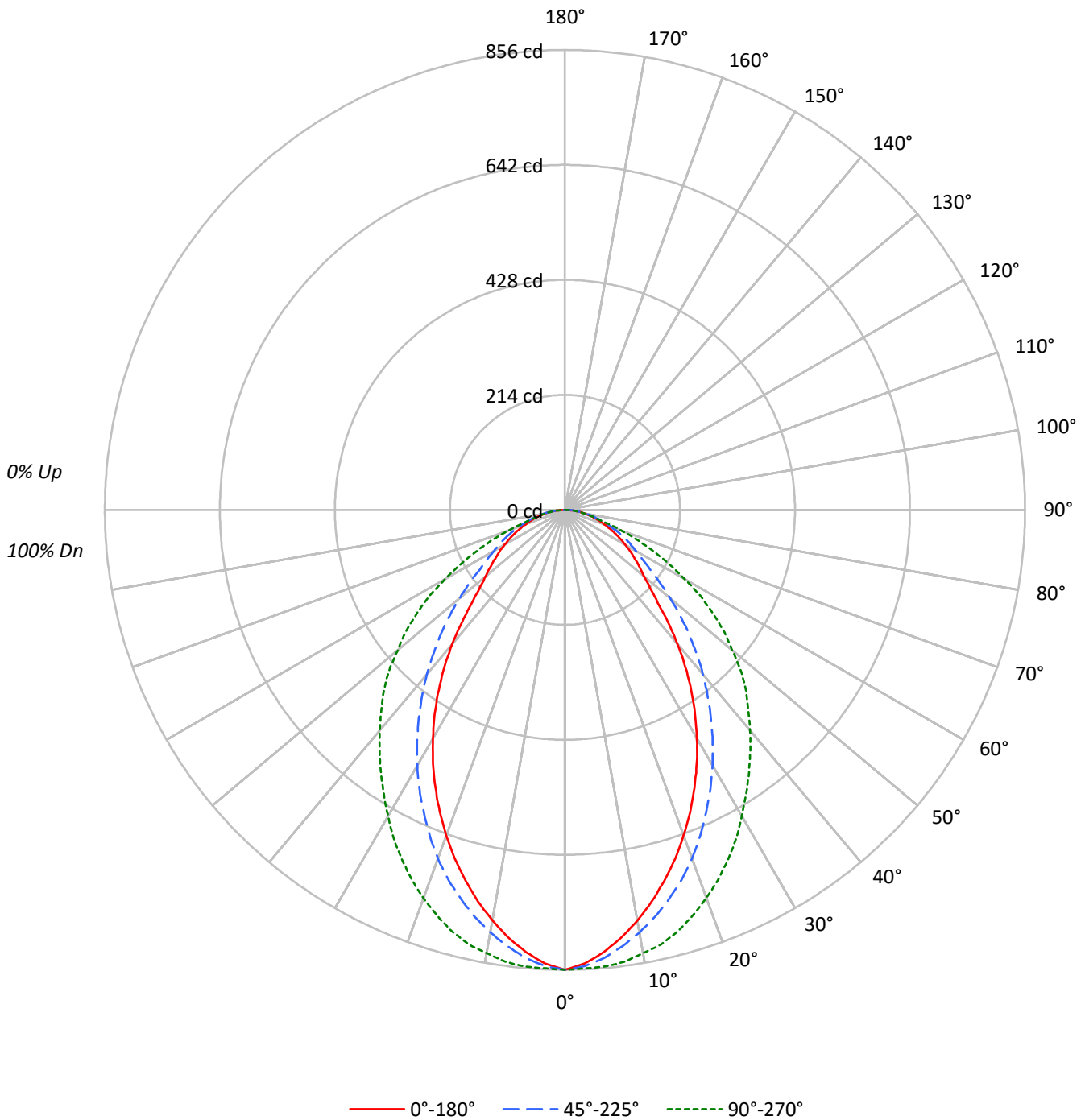
Lumens per Lamp: N/A
Luminaire Lumens: 1558.7 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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										
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	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100														
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87	87	87	87														
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	75	75	75	75	75														
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	65	65	65	65	65														
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	57	57	57	57	57														
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50	50	50	50	50	50	50														
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45	45	45	45	45														
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41	41	41	41	41	41	41														
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37	37	37	37	37	37	37														
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34	34	34	34	34	34	34														
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31	31	31	31	31	31	31														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7372	7372	7372
5°	7144	7238	7377
10°	6788	6984	7329
15°	6368	6680	7241
20°	5912	6332	7048
25°	5415	5900	6821
30°	4881	5461	6541
35°	4302	4981	6274
40°	3662	4489	6023
45°	2973	3968	5803
50°	2572	3415	5434
55°	2384	2896	5038
60°	2225	2613	4421
65°	2084	2451	3676
70°	1944	2258	2780
75°	1850	2089	2000
80°	1736	1914	1691
85°	1601	1769	1334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5803 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	5.1
10°-20°	212.5	13.6
20°-30°	290.1	18.6
30°-40°	303.9	19.5
40°-50°	263.1	16.9
50°-60°	197.7	12.7
60°-70°	127.5	8.2
70°-80°	65.4	4.2
80°-90°	19.5	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°	581.6	37.3
0°-40°	885.5	56.8
0°-60°	1346.3	86.4
0°-90°	1558.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1558.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	826	839	837	844	853	77
15°	714	732	749	783	812	200
25°	570	591	621	670	718	261
35°	409	433	474	537	597	255
45°	244	269	326	406	476	192
55°	159	164	193	276	336	143
65°	102	104	120	145	180	102
75°	56	62	63	62	60	59
85°	16	19	18	17	14	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.1	856.1	856.1	856.1	856.1
2.5°	845.4	856.1	849.8	851.6	854.3
5°	826.5	839.1	837.3	843.6	853.4
7.5°	803.2	816.6	819.3	833.7	848.1
10°	776.3	791.5	798.7	820.2	838.2
12.5°	746.6	762.8	775.4	802.3	828.3
15°	714.3	732.3	749.3	783.4	812.2
17.5°	681.1	699.1	721.5	759.2	791.5
20°	645.2	665.0	691.0	730.5	769.1
22.5°	608.4	629.1	656.9	700.0	744.8
25°	569.9	591.4	621.0	669.5	717.9
27.5°	531.3	552.8	586.0	637.2	690.1
30°	490.9	513.3	549.2	604.9	657.8
32.5°	450.5	474.7	511.5	570.8	627.3
35°	409.2	432.6	473.8	536.7	596.8
37.5°	367.9	392.2	436.1	503.4	566.3
40°	325.8	350.9	399.3	470.2	535.8
42.5°	283.6	310.5	361.7	436.1	505.2
45°	244.1	269.2	325.8	405.6	476.5
47.5°	214.5	231.5	289.9	376.0	444.2
50°	192.0	201.0	254.9	343.7	405.6
52.5°	175.0	181.3	222.6	308.7	374.2
55°	158.8	164.2	192.9	275.5	335.6
57.5°	144.5	147.2	170.5	243.2	298.8
60°	129.2	131.9	151.7	208.2	256.7
62.5°	115.8	117.6	136.4	175.0	218.1
65°	102.3	104.1	120.3	145.4	180.4
67.5°	89.7	92.4	105.0	118.5	143.6
70°	77.2	82.6	89.7	96.0	110.4
72.5°	66.4	71.8	75.4	77.2	78.1
75°	55.6	61.9	62.8	61.9	60.1
77.5°	44.9	50.3	50.3	48.5	46.7
80°	35.0	39.5	38.6	36.8	34.1
82.5°	26.0	28.7	27.8	26.0	23.3
85°	16.2	18.8	17.9	17.1	13.5
87.5°	8.1	10.8	9.9	9.0	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)