

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: P1060623

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)
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-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

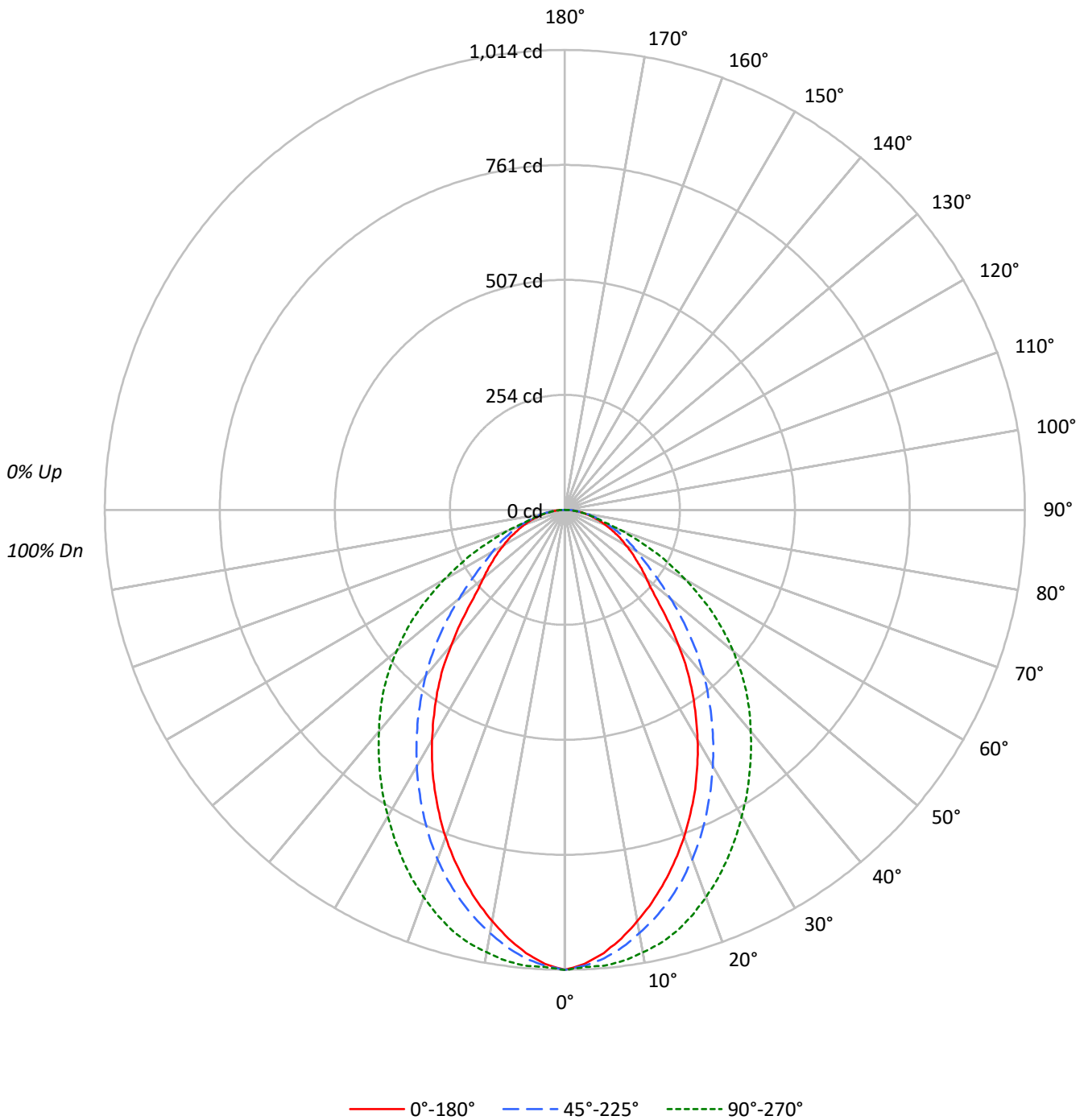
Lumens per Lamp: N/A
Luminaire Lumens: 1861.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65				65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57				57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50				50
6	75	62	54	48	73	61	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	53	47	43	52	47	42	40				40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37				37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33				33
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31				31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8733	8733	8733
5°	8480	8581	8720
10°	8052	8288	8664
15°	7570	7937	8561
20°	7041	7517	8332
25°	6455	7019	8059
30°	5819	6488	7755
35°	5151	5934	7463
40°	4378	5357	7163
45°	3585	4732	6885
50°	3139	4065	6481
55°	2884	3504	5996
60°	2675	3153	5287
65°	2506	2963	4426
70°	2349	2712	3321
75°	2209	2479	2419
80°	2048	2271	2048
85°	1857	2213	1778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6885 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	5.0
10°-20°	252.2	13.6
20°-30°	344.7	18.5
30°-40°	362.3	19.5
40°-50°	314.4	16.9
50°-60°	237.2	12.7
60°-70°	153.7	8.3
70°-80°	78.9	4.2
80°-90°	23.9	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°	690.6	37.1
0°-40°	1052.9	56.6
0°-60°	1604.5	86.2
0°-90°	1861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1014	1014	1014	1014	1014	
5°	981	994	993	1001	1009	92
15°	849	870	890	931	960	238
25°	679	704	739	795	848	311
35°	490	517	564	640	710	305
45°	294	322	389	486	565	232
55°	192	198	233	331	399	173
65°	123	126	145	176	217	122
75°	66	74	74	75	73	71
85°	19	23	22	22	18	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1014.2	1014.2	1014.2	1014.2	1014.2
2.5°	1002.5	1015.1	1006.1	1007.9	1008.8
5°	981.0	994.5	992.7	1000.7	1008.8
7.5°	953.2	969.3	972.9	989.1	1002.5
10°	920.9	938.8	947.8	973.8	990.9
12.5°	886.7	904.7	920.9	954.1	978.3
15°	849.1	869.7	890.3	930.7	960.3
17.5°	809.6	831.1	857.1	901.1	936.1
20°	768.3	789.8	820.3	867.9	909.2
22.5°	724.3	748.5	780.8	832.0	880.5
25°	679.4	703.7	738.7	795.2	848.2
27.5°	632.8	657.9	695.6	758.4	814.9
30°	585.2	612.1	652.5	718.9	779.9
32.5°	536.7	565.4	608.5	679.4	745.8
35°	490.0	517.0	564.5	639.9	709.9
37.5°	441.6	468.5	519.7	601.3	674.0
40°	389.5	419.1	476.6	561.0	637.2
42.5°	341.1	370.7	432.6	522.4	602.2
45°	294.4	322.2	388.6	485.6	565.4
47.5°	258.5	278.2	344.6	449.7	525.9
50°	234.3	243.2	303.4	410.2	483.8
52.5°	212.7	219.9	265.7	370.7	442.5
55°	192.1	197.5	233.4	331.2	399.4
57.5°	174.1	176.8	204.6	291.7	352.7
60°	155.3	158.9	183.1	251.3	307.0
62.5°	140.0	141.8	164.2	212.7	261.2
65°	123.0	125.7	145.4	175.9	217.2
67.5°	107.7	112.2	125.7	143.6	171.4
70°	93.3	99.6	107.7	116.7	131.9
72.5°	79.9	87.1	91.5	95.1	92.4
75°	66.4	74.5	74.5	75.4	72.7
77.5°	53.9	61.0	60.1	59.2	55.6
80°	41.3	47.6	45.8	44.9	41.3
82.5°	30.5	35.0	33.2	32.3	27.8
85°	18.8	23.3	22.4	21.5	18.0
87.5°	9.0	13.5	12.6	11.7	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)