

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: P1060347

Luminaire Tested: S124RDR-S1195D930-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-75)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D930-X4F0-XX-UDD-BVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

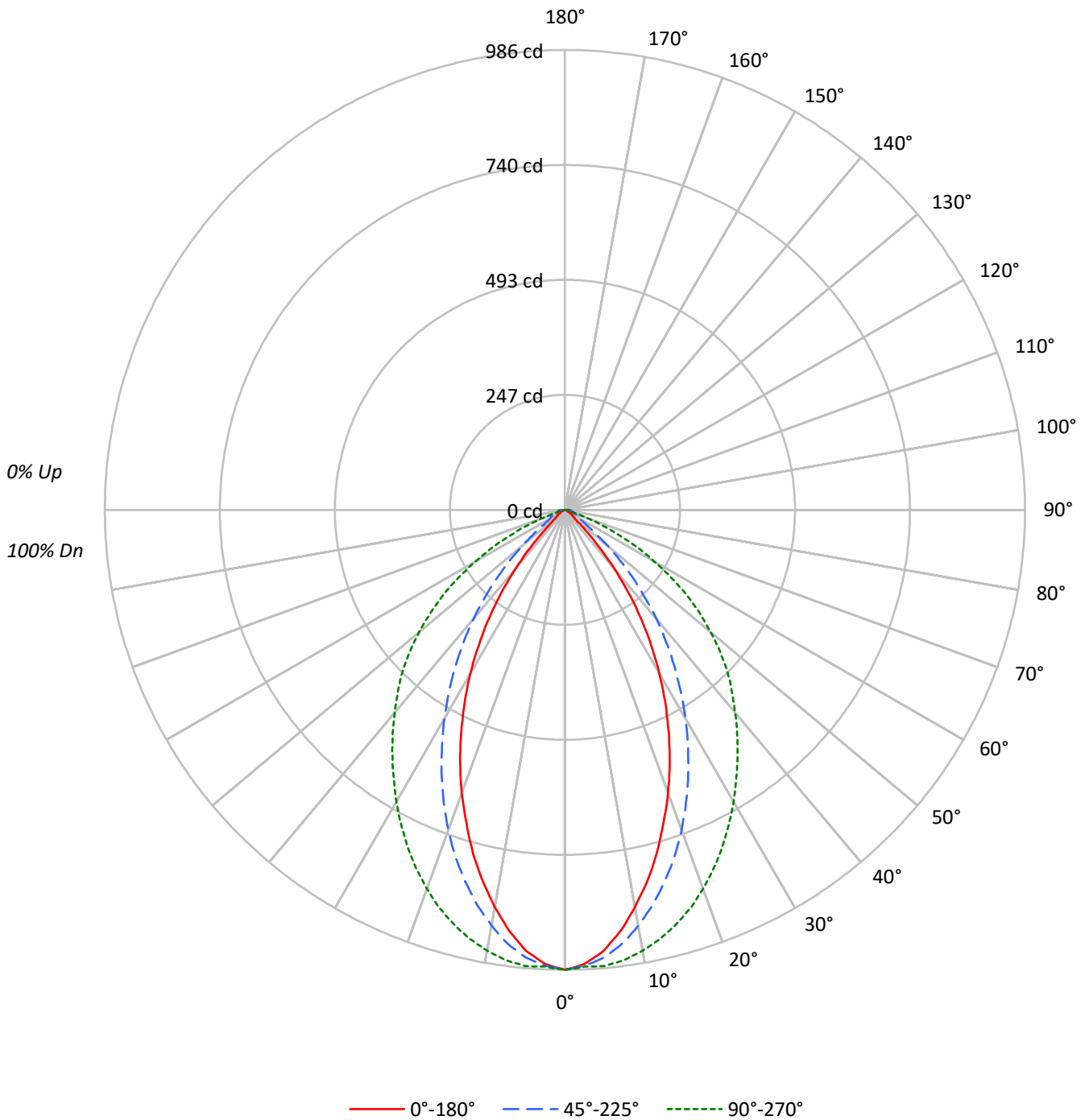
Lumens per Lamp: N/A
Luminaire Lumens: 1242.9 lumens
Efficiency: N/A
Efficacy: 29.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.96
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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

TEST NUMBER: P1060347

CATALOG NUMBER: S124RDR-S1195D930-X4F0-XX-UDD-BVL-W

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8492	8492	8492
5°	8205	8325	8485
10°	7561	7915	8391
15°	6790	7357	8203
20°	5919	6693	7924
25°	4993	5939	7577
30°	4028	5134	7182
35°	2981	4295	6777
40°	1848	3422	6376
45°	733	2495	6005
50°	326	1566	5458
55°	261	817	4779
60°	179	618	3808
65°	118	613	2618
70°	116	554	1224
75°	153	539	539
80°	228	630	630
85°	454	1255	919

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6005 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	7.3
10°-20°	233.5	18.8
20°-30°	294.7	23.7
30°-40°	270.4	21.8
40°-50°	184.1	14.8
50°-60°	100.3	8.1
60°-70°	43.4	3.5
70°-80°	15.8	1.3
80°-90°	10.2	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°	618.7	49.8
0°-40°	889.1	71.5
0°-60°	1173.5	94.4
0°-90°	1242.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	949	962	963	974	982	88
15°	762	788	825	884	920	212
25°	526	563	625	725	798	240
35°	284	325	409	538	645	175
45°	60	101	205	364	493	56
55°	17	18	54	200	318	15
65°	6	8	30	62	128	7
75°	5	15	16	16	16	5
85°	5	10	13	13	9	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.2	986.2	986.2	986.2	986.2
2.5°	974.6	986.2	978.1	980.4	980.4
5°	949.2	961.9	963.1	973.5	981.6
7.5°	911.0	929.5	938.7	959.6	973.5
10°	864.7	886.7	905.2	941.1	959.6
12.5°	814.9	840.4	868.1	915.6	942.2
15°	761.6	788.3	825.3	884.3	920.2
17.5°	702.6	735.0	780.2	850.8	894.8
20°	645.9	678.3	730.4	810.3	864.7
22.5°	586.9	620.4	678.3	767.4	832.3
25°	525.5	562.6	625.1	724.6	797.5
27.5°	465.3	504.7	570.7	679.5	760.5
30°	405.1	444.5	516.3	633.2	722.3
32.5°	343.8	384.3	461.8	584.5	682.9
35°	283.6	325.3	408.6	538.2	644.7
37.5°	222.2	266.2	355.4	493.1	606.5
40°	164.4	208.4	304.4	448.0	567.2
42.5°	110.0	153.9	252.3	404.0	530.1
45°	60.2	100.7	204.9	363.5	493.1
47.5°	32.4	55.6	158.6	324.1	451.4
50°	24.3	30.1	116.9	282.4	407.4
52.5°	20.8	23.2	81.0	238.4	363.5
55°	17.4	18.5	54.4	200.3	318.3
57.5°	13.9	15.0	40.5	162.1	269.7
60°	10.4	12.7	35.9	125.0	221.1
62.5°	8.1	10.4	33.6	91.4	174.8
65°	5.8	8.1	30.1	62.5	128.5
67.5°	5.8	9.3	25.5	40.5	86.8
70°	4.6	12.7	22.0	26.6	48.6
72.5°	4.6	13.9	18.5	18.5	18.5
75°	4.6	15.0	16.2	16.2	16.2
77.5°	4.6	13.9	15.0	13.9	13.9
80°	4.6	12.7	12.7	12.7	12.7
82.5°	4.6	11.6	12.7	12.7	10.4
85°	4.6	10.4	12.7	12.7	9.3
87.5°	3.5	10.4	11.6	11.6	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)