

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060611

Luminaire Tested: S124RDRP-S795D940-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060611
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: S124RDRP-S795D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

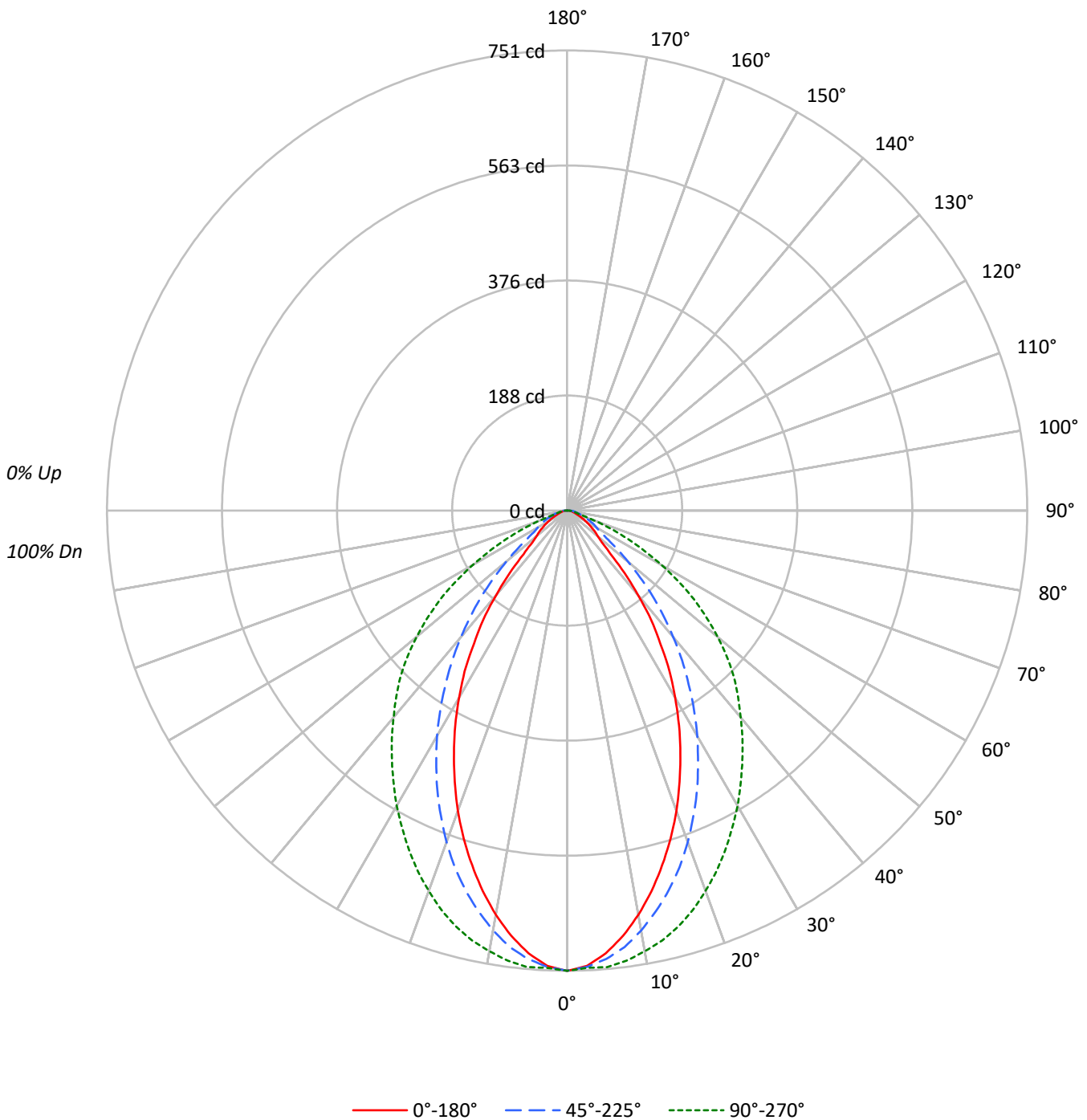
Lumens per Lamp: N/A
Luminaire Lumens: 1063.1 lumens
Efficiency: N/A
Efficacy: 41.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (A_{in}): 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: P1060611

CATALOG NUMBER: S124RDRP-S795D940-X4F0-XX-UDD-SVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1060611

CATALOG NUMBER: S124RDRP-S795D940-X4F0-XX-UDD-SVL-W

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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6468	6468	6468
5°	6268	6347	6464
10°	5856	6083	6384
15°	5342	5716	6262
20°	4776	5276	6053
25°	4154	4769	5805
30°	3505	4223	5532
35°	2788	3635	5240
40°	2028	3028	4953
45°	1226	2392	4691
50°	877	1731	4295
55°	743	1171	3792
60°	606	954	3064
65°	479	856	2207
70°	400	718	1163
75°	363	669	586
80°	377	664	580
85°	494	998	662

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4691 cd/sqm



TEST NUMBER: P1060611

CATALOG NUMBER: S124RDRP-S795D940-X4F0-XX-UDD-SVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	6.5
10°-20°	181.2	17.0
20°-30°	235.0	22.1
30°-40°	226.2	21.3
40°-50°	168.3	15.8
50°-60°	103.5	9.7
60°-70°	50.8	4.8
70°-80°	19.8	1.9
80°-90°	9.0	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°	485.4	45.7
0°-40°	711.6	66.9
0°-60°	983.4	92.5
0°-90°	1063.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1063.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	725	736	734	741	748	67
15°	599	618	641	680	702	167
25°	437	461	502	565	611	200
35°	265	290	346	432	498	166
45°	101	125	196	303	385	84
55°	50	51	78	178	253	45
65°	24	25	42	67	108	24
75°	11	19	20	18	18	12
85°	5	9	10	10	7	5
90°	0	0	0	0	0	



TEST NUMBER: P1060611

CATALOG NUMBER: S124RDRP-S795D940-X4F0-XX-UDD-SVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	751.1	751.1	751.1	751.1	751.1
2.5°	743.6	752.0	745.3	746.1	746.9
5°	725.1	736.0	734.3	741.1	747.8
7.5°	699.9	712.5	718.4	731.8	741.1
10°	669.7	684.0	695.7	717.6	730.1
12.5°	636.1	652.9	669.7	699.1	718.4
15°	599.2	618.5	641.2	679.8	702.4
17.5°	561.5	580.8	610.1	654.6	683.1
20°	521.2	542.2	575.7	625.2	660.5
22.5°	479.2	501.9	538.8	595.0	637.0
25°	437.2	460.7	501.9	564.8	611.0
27.5°	395.3	417.9	462.4	532.9	583.3
30°	352.5	376.0	424.7	498.5	556.4
32.5°	311.4	333.2	385.2	465.8	527.0
35°	265.2	290.4	345.8	432.2	498.5
37.5°	225.8	248.4	308.0	398.6	470.0
40°	180.4	205.6	269.4	365.9	440.6
42.5°	138.5	163.7	232.5	333.2	412.9
45°	100.7	125.0	196.4	303.0	385.2
47.5°	76.4	90.6	161.1	273.6	354.2
50°	65.5	69.7	129.2	241.7	320.6
52.5°	57.9	59.6	100.7	209.8	287.0
55°	49.5	51.2	78.0	177.9	252.6
57.5°	42.0	42.8	62.9	147.7	215.7
60°	35.2	36.1	55.4	118.3	177.9
62.5°	29.4	30.2	49.5	91.5	141.8
65°	23.5	25.2	42.0	67.1	108.3
67.5°	19.3	22.7	35.2	47.0	75.5
70°	15.9	21.8	28.5	32.7	46.2
72.5°	13.4	20.1	24.3	23.5	22.7
75°	10.9	19.3	20.1	18.5	17.6
77.5°	9.2	16.8	16.8	15.1	14.3
80°	7.6	13.4	13.4	13.4	11.7
82.5°	6.7	10.9	11.7	11.7	9.2
85°	5.0	9.2	10.1	10.1	6.7
87.5°	3.4	8.4	9.2	8.4	5.0
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1060611
 CATALOG NUMBER: S124RDRP-S795D940-X4F0-XX-UDD-SVL-W

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	6.27	7.61	6.64	7.93	8.24	15.44	16.78	15.80	17.09	17.41
	3H	7.38	8.57	7.76	8.90	9.27	15.95	17.14	16.33	17.47	17.83
	4H	7.90	9.01	8.30	9.36	9.74	15.97	17.08	16.37	17.43	17.81
	6H	8.33	9.35	8.75	9.72	10.12	15.98	17.00	16.39	17.37	17.76
	8H	8.52	9.49	8.95	9.88	10.29	15.98	16.95	16.41	17.34	17.74
	12H	8.70	9.63	9.13	10.01	10.44	15.98	16.91	16.41	17.29	17.72
4H	2H	7.42	8.53	7.82	8.88	9.26	15.33	16.44	15.73	16.79	17.17
	3H	8.76	9.67	9.17	10.07	10.47	15.92	16.83	16.33	17.23	17.64
	4H	9.49	10.30	9.92	10.72	11.16	15.98	16.79	16.41	17.21	17.65
	6H	10.10	10.80	10.56	11.25	11.71	16.05	16.76	16.52	17.20	17.67
	8H	10.34	11.00	10.81	11.44	11.92	16.08	16.74	16.55	17.19	17.66
	12H	10.58	11.16	11.06	11.64	12.11	16.12	16.71	16.61	17.19	17.66
8H	4H	9.96	10.61	10.43	11.06	11.53	15.94	16.59	16.41	17.04	17.51
	6H	10.81	11.34	11.31	11.84	12.32	16.06	16.60	16.56	17.10	17.58
	8H	11.21	11.69	11.73	12.21	12.70	16.15	16.63	16.67	17.14	17.64
	12H	11.63	12.06	12.15	12.55	13.12	16.27	16.69	16.78	17.19	17.76
12H	4H	10.01	10.59	10.50	11.07	11.55	15.91	16.49	16.40	16.97	17.45
	6H	10.94	11.42	11.46	11.94	12.43	16.04	16.53	16.57	17.04	17.54
	8H	11.46	11.89	11.97	12.38	12.95	16.18	16.61	16.69	17.10	17.67