

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: P1060584

Luminaire Tested: S124RDRP-S795D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060584
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-S795D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

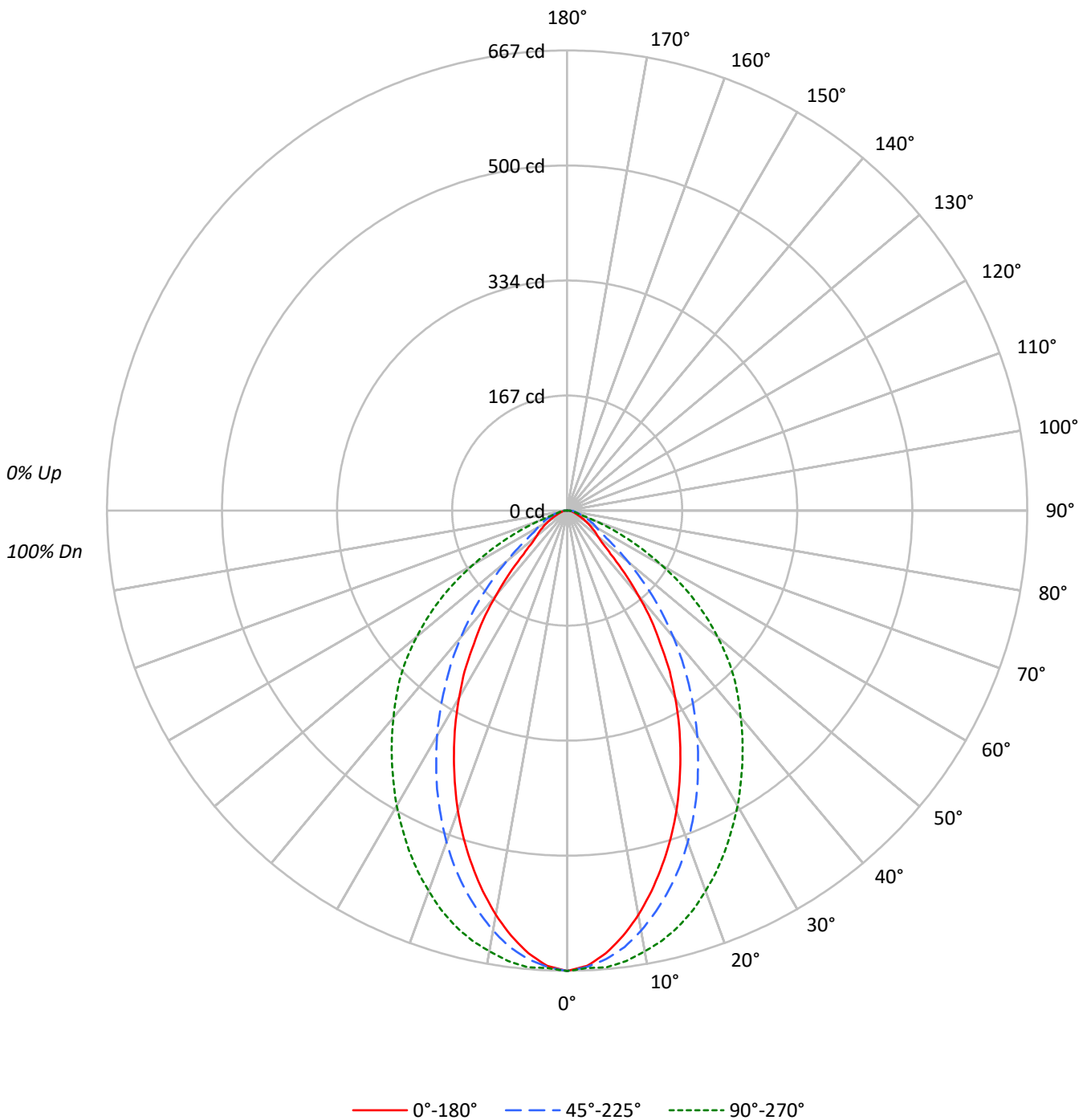
Lumens per Lamp: N/A
Luminaire Lumens: 944.4 lumens
Efficiency: N/A
Efficacy: 36.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	5746	5746	5746
5°	5568	5639	5742
10°	5203	5405	5671
15°	4745	5078	5563
20°	4243	4687	5377
25°	3690	4237	5157
30°	3113	3752	4915
35°	2477	3229	4656
40°	1802	2690	4400
45°	1090	2125	4167
50°	780	1538	3815
55°	661	1040	3369
60°	539	847	2723
65°	426	760	1960
70°	358	637	1032
75°	323	596	522
80°	332	590	516
85°	445	879	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4167 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	6.5
10°-20°	161.0	17.0
20°-30°	208.8	22.1
30°-40°	201.0	21.3
40°-50°	149.5	15.8
50°-60°	91.9	9.7
60°-70°	45.2	4.8
70°-80°	17.6	1.9
80°-90°	8.0	0.9
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°	431.2	45.7
0°-40°	632.2	66.9
0°-60°	873.6	92.5
0°-90°	944.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	944.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	644	654	652	658	664	60
15°	532	550	570	604	624	149
25°	388	409	446	502	543	178
35°	236	258	307	384	443	147
45°	90	111	174	269	342	74
55°	44	46	69	158	224	40
65°	21	22	37	60	96	21
75°	10	17	18	16	16	11
85°	4	8	9	9	6	5
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	667.3	667.3	667.3	667.3	667.3
2.5°	660.6	668.0	662.1	662.8	663.6
5°	644.2	653.9	652.4	658.3	664.3
7.5°	621.8	633.0	638.2	650.1	658.3
10°	595.0	607.6	618.1	637.5	648.6
12.5°	565.1	580.1	595.0	621.1	638.2
15°	532.3	549.5	569.6	603.9	624.0
17.5°	498.8	515.9	542.0	581.5	606.9
20°	463.0	481.6	511.5	555.5	586.8
22.5°	425.7	445.9	478.7	528.6	565.9
25°	388.4	409.3	445.9	501.8	542.8
27.5°	351.2	371.3	410.8	473.4	518.2
30°	313.1	334.0	377.3	442.9	494.3
32.5°	276.6	296.0	342.2	413.8	468.2
35°	235.6	258.0	307.2	384.0	442.9
37.5°	200.6	220.7	273.6	354.1	417.5
40°	160.3	182.7	239.3	325.1	391.4
42.5°	123.0	145.4	206.5	296.0	366.8
45°	89.5	111.1	174.5	269.2	342.2
47.5°	67.8	80.5	143.1	243.1	314.6
50°	58.2	61.9	114.8	214.7	284.8
52.5°	51.4	52.9	89.5	186.4	255.0
55°	44.0	45.5	69.3	158.1	224.4
57.5°	37.3	38.0	55.9	131.2	191.6
60°	31.3	32.1	49.2	105.1	158.1
62.5°	26.1	26.8	44.0	81.3	126.0
65°	20.9	22.4	37.3	59.6	96.2
67.5°	17.1	20.1	31.3	41.8	67.1
70°	14.2	19.4	25.3	29.1	41.0
72.5°	11.9	17.9	21.6	20.9	20.1
75°	9.7	17.1	17.9	16.4	15.7
77.5°	8.2	14.9	14.9	13.4	12.7
80°	6.7	11.9	11.9	11.9	10.4
82.5°	6.0	9.7	10.4	10.4	8.2
85°	4.5	8.2	8.9	8.9	6.0
87.5°	3.0	7.5	8.2	7.5	4.5
90°	0.0	0.0	0.0	0.0	0.0



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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	5.86	7.20	6.22	7.51	7.83	15.03	16.37	15.39	16.68	17.00
	3H	6.97	8.16	7.35	8.49	8.85	15.53	16.73	15.91	17.05	17.42
	4H	7.48	8.59	7.89	8.95	9.33	15.55	16.66	15.96	17.02	17.40
	6H	7.92	8.94	8.33	9.31	9.70	15.57	16.59	15.98	16.96	17.35
	8H	8.11	9.08	8.54	9.47	9.87	15.57	16.54	16.00	16.93	17.33
	12H	8.29	9.22	8.73	9.60	10.03	15.57	16.50	16.00	16.88	17.31
4H	2H	7.00	8.11	7.41	8.47	8.85	14.92	16.03	15.32	16.38	16.76
	3H	8.34	9.25	8.76	9.66	10.06	15.51	16.42	15.92	16.82	17.22
	4H	9.08	9.89	9.51	10.31	10.75	15.57	16.38	16.00	16.80	17.24
	6H	9.68	10.39	10.15	10.83	11.30	15.64	16.35	16.11	16.79	17.26
	8H	9.93	10.58	10.40	11.03	11.50	15.67	16.33	16.14	16.78	17.25
	12H	10.17	10.75	10.65	11.23	11.70	15.71	16.29	16.20	16.78	17.25
8H	4H	9.54	10.20	10.01	10.65	11.12	15.53	16.18	15.99	16.63	17.10
	6H	10.39	10.93	10.89	11.42	11.91	15.65	16.19	16.15	16.69	17.17
	8H	10.80	11.28	11.32	11.80	12.29	15.73	16.22	16.26	16.73	17.22
	12H	11.22	11.65	11.74	12.15	12.72	15.86	16.28	16.37	16.78	17.35
12H	4H	9.60	10.18	10.08	10.66	11.13	15.50	16.08	15.98	16.56	17.04
	6H	10.52	11.01	11.04	11.52	12.01	15.63	16.12	16.15	16.63	17.12
	8H	11.05	11.47	11.56	11.97	12.54	15.77	16.19	16.28	16.69	17.26