

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: P1060336

Luminaire Tested: S124RDRP-S1195D927-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-39)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D927-X4F0-XX-UDD-BVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

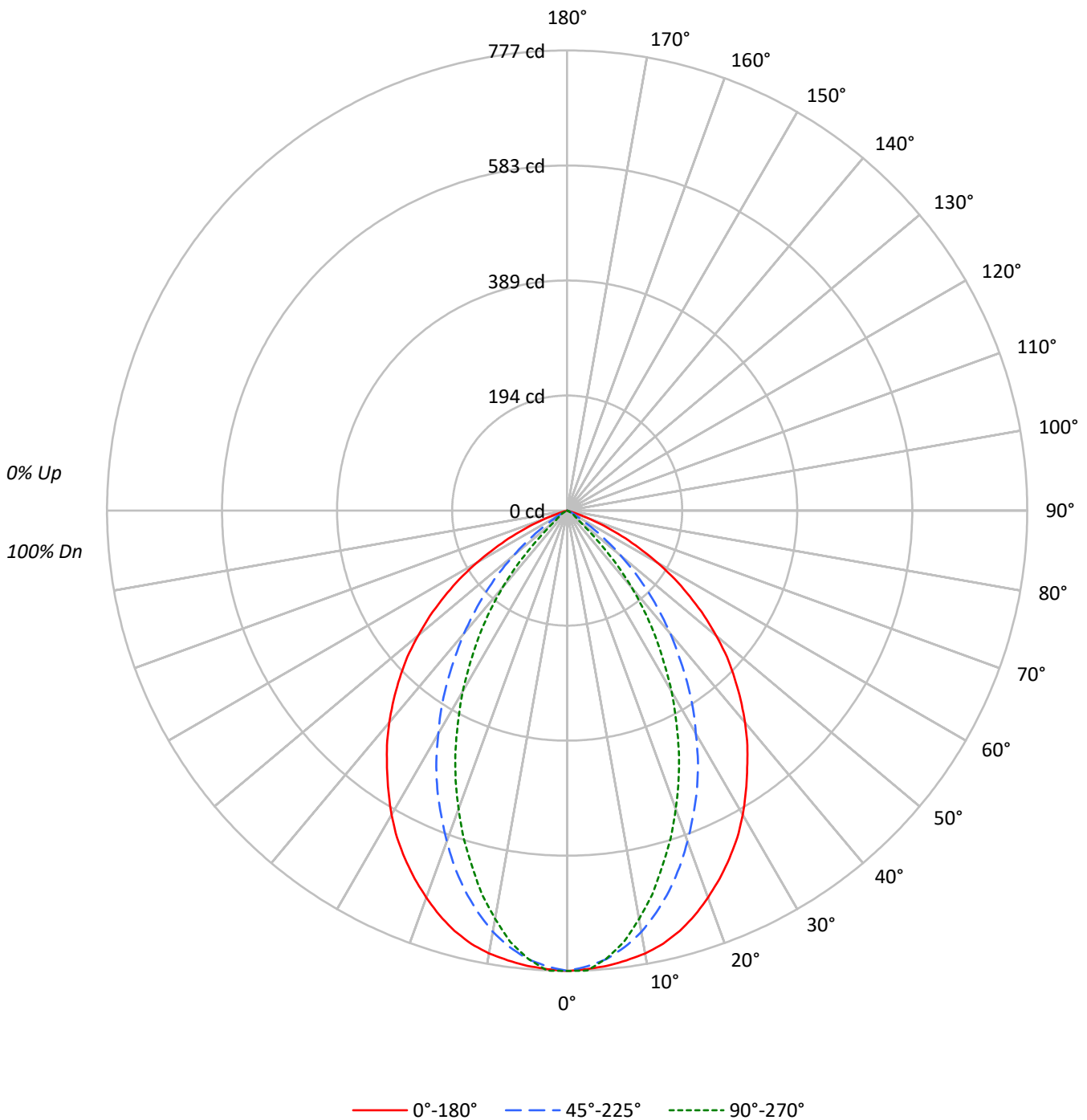
Lumens per Lamp: N/A
Luminaire Lumens: 1014.9 lumens
Efficiency: N/A
Efficacy: 24.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6693	6693	6693
5°	6671	6573	6563
10°	6639	6315	6119
15°	6549	5928	5537
20°	6372	5445	4910
25°	6158	4930	4237
30°	5897	4322	3507
35°	5574	3708	2728
40°	5253	3043	1906
45°	4870	2339	944
50°	4394	1579	316
55°	3794	809	219
60°	3036	289	155
65°	2082	161	69
70°	934	86	55
75°	0	37	37
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4870 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	7.1
10°-20°	188.2	18.5
20°-30°	243.6	24.0
30°-40°	231.4	22.8
40°-50°	163.9	16.1
50°-60°	84.1	8.3
60°-70°	29.4	2.9
70°-80°	2.5	0.2
80°-90°	0.0	0.0
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°	503.5	49.6
0°-40°	735.0	72.4
0°-60°	983.0	96.9
0°-90°	1014.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1014.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	772	773	760	760	759	73
15°	735	712	665	634	621	207
25°	648	598	519	464	446	298
35°	530	453	353	284	260	332
45°	400	308	192	110	78	308
55°	253	166	54	16	15	226
65°	102	49	8	4	3	102
75°	0	1	1	1	1	8
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	777.3	777.3	777.3	777.3	777.3
2.5°	775.0	777.3	770.5	776.2	777.3
5°	771.7	772.8	760.4	760.4	759.3
7.5°	766.0	763.8	743.6	735.7	734.6
10°	759.3	751.4	722.2	705.4	699.8
12.5°	749.2	734.6	695.3	670.6	663.8
15°	734.6	712.1	665.0	633.5	621.1
17.5°	716.6	687.4	631.3	593.1	580.7
20°	695.3	658.2	594.2	551.5	535.8
22.5°	672.8	630.1	556.0	507.7	492.0
25°	648.1	597.6	518.9	463.9	445.9
27.5°	622.3	562.7	478.5	421.2	397.6
30°	593.1	527.9	434.7	375.2	352.7
32.5°	561.6	489.7	395.4	331.4	304.4
35°	530.2	452.7	352.7	284.2	259.5
37.5°	499.8	417.8	310.0	238.1	214.5
40°	467.3	379.7	270.7	196.6	169.6
42.5°	433.6	342.6	230.3	153.9	124.7
45°	399.9	307.8	192.1	110.1	77.5
47.5°	366.2	270.7	155.0	69.6	41.6
50°	328.0	234.8	117.9	37.1	23.6
52.5°	292.0	201.1	84.2	21.3	18.0
55°	252.7	166.2	53.9	15.7	14.6
57.5°	215.7	132.5	30.3	12.4	11.2
60°	176.3	102.2	16.8	10.1	9.0
62.5°	137.0	74.1	11.2	6.7	5.6
65°	102.2	49.4	7.9	4.5	3.4
67.5°	67.4	28.1	5.6	2.2	2.2
70°	37.1	13.5	3.4	2.2	2.2
72.5°	13.5	4.5	2.2	1.1	1.1
75°	0.0	1.1	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	1.1
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	15.13	16.39	15.50	16.70	17.02	0.00	0.00	0.00	0.00	0.00
	3H	15.41	16.52	15.79	16.85	17.21	0.00	0.00	0.00	0.00	0.00
	4H	15.33	16.36	15.74	16.71	17.10	0.00	0.00	0.00	0.00	0.00
	6H	15.25	16.19	15.66	16.56	16.95	0.00	0.00	0.00	0.00	0.00
	8H	15.20	16.09	15.63	16.48	16.89	0.00	0.00	0.00	0.00	0.00
	12H	15.16	16.00	15.59	16.38	16.82	0.00	0.00	0.00	0.00	0.00
4H	2H	14.91	15.93	15.31	16.28	16.67	0.00	0.00	0.00	0.00	0.04
	3H	15.19	16.02	15.60	16.42	16.83	0.00	0.00	0.00	0.00	0.04
	4H	15.10	15.83	15.53	16.25	16.70	0.00	0.00	0.00	0.00	0.00
	6H	15.01	15.64	15.47	16.09	16.56	0.00	0.00	0.00	0.00	0.00
	8H	14.95	15.54	15.42	15.98	16.46	0.00	0.00	0.00	0.00	0.00
	12H	14.90	15.41	15.38	15.90	16.37	0.00	0.00	0.00	0.00	0.00
8H	4H	14.95	15.54	15.42	15.99	16.46	0.00	0.00	0.00	0.00	0.00
	6H	14.84	15.32	15.34	15.82	16.30	0.00	0.00	0.00	0.00	0.00
	8H	14.77	15.20	15.30	15.72	16.21	0.00	0.00	0.00	0.00	0.00
	12H	14.72	15.10	15.24	15.60	16.17	0.00	0.00	0.00	0.00	0.00
12H	4H	14.90	15.41	15.39	15.90	16.37	0.00	0.00	0.00	0.00	0.00
	6H	14.77	15.20	15.30	15.72	16.21	0.00	0.00	0.00	0.00	0.00
	8H	14.72	15.10	15.24	15.60	16.17	0.00	0.00	0.00	0.00	0.00