

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: P1060354

Luminaire Tested: S124RDRP-S1195D935-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060354
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-S1195D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

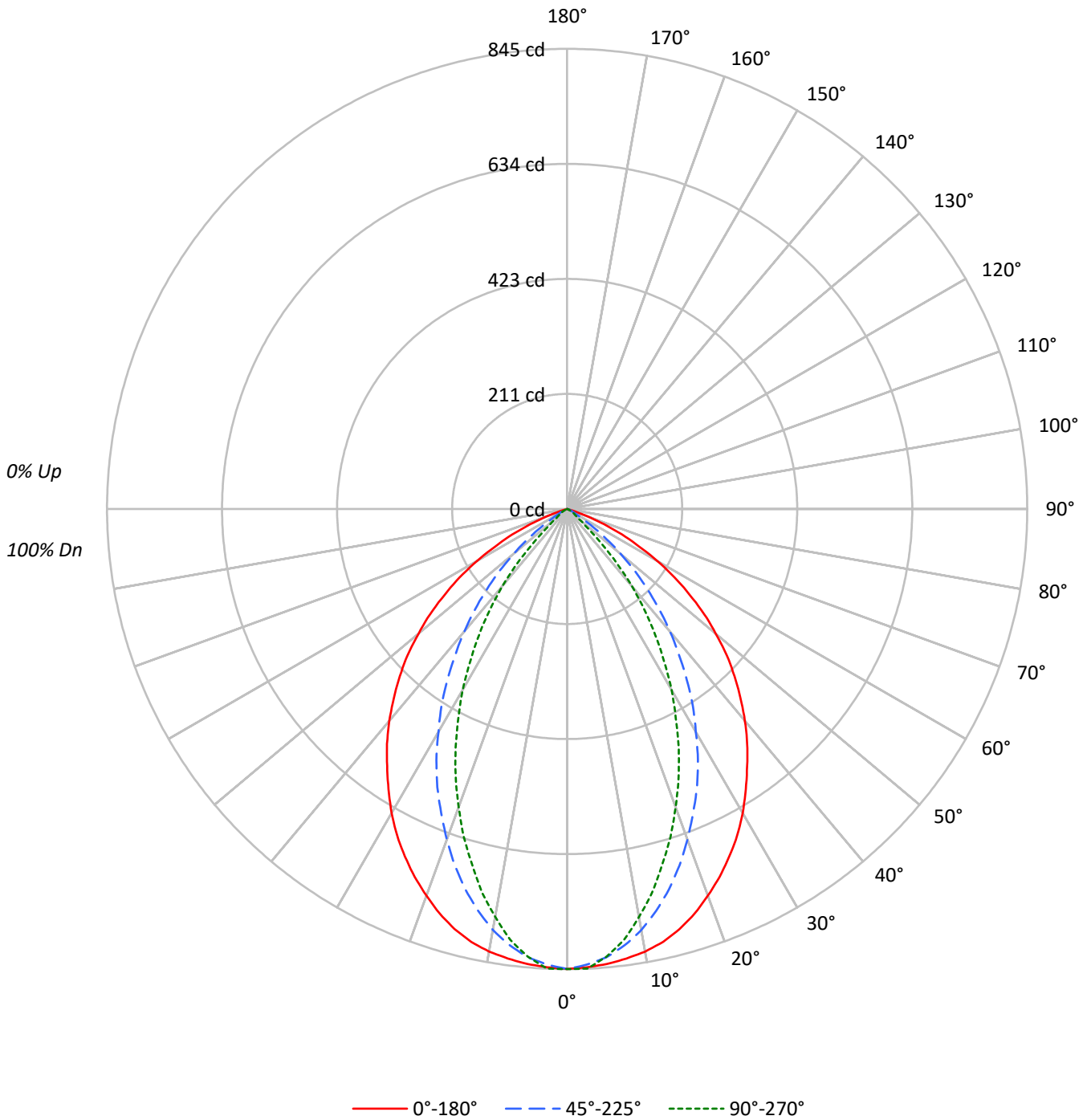
Lumens per Lamp: N/A
Luminaire Lumens: 1103.1 lumens
Efficiency: N/A
Efficacy: 26.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1060354

CATALOG NUMBER: S124RDRP-S1195D935-X4F0-XX-UDD-BVL-B

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7275	7275	7275
5°	7250	7144	7134
10°	7216	6864	6651
15°	7118	6443	6018
20°	6925	5918	5336
25°	6693	5359	4605
30°	6409	4698	3811
35°	6057	4029	2964
40°	5709	3307	2072
45°	5293	2543	1025
50°	4776	1717	343
55°	4124	880	239
60°	3302	315	169
65°	2264	173	75
70°	1015	93	60
75°	0	40	40
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5293 cd/sqm

TEST NUMBER: P1060354

CATALOG NUMBER: S124RDRP-S1195D935-X4F0-XX-UDD-BVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	7.1
10°-20°	204.5	18.5
20°-30°	264.7	24.0
30°-40°	251.5	22.8
40°-50°	178.1	16.1
50°-60°	91.4	8.3
60°-70°	32.0	2.9
70°-80°	2.8	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°	547.3	49.6
0°-40°	798.8	72.4
0°-60°	1068.4	96.9
0°-90°	1103.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1103.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	845	845	845	845	845	
5°	839	840	826	826	825	80
15°	798	774	723	688	675	224
25°	704	650	564	504	485	324
35°	576	492	383	309	282	361
45°	435	334	209	120	84	335
55°	275	181	59	17	16	245
65°	111	54	8	5	4	111
75°	0	1	1	1	1	9
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°	844.8	844.8	844.8	844.8	844.8
2.5°	842.4	844.8	837.5	843.6	844.8
5°	838.7	839.9	826.5	826.5	825.3
7.5°	832.6	830.2	808.2	799.6	798.4
10°	825.3	816.7	785.0	766.7	760.6
12.5°	814.3	798.4	755.7	728.8	721.5
15°	798.4	774.0	722.7	688.5	675.1
17.5°	778.9	747.1	686.1	644.6	631.2
20°	755.7	715.4	645.8	599.4	582.3
22.5°	731.3	684.9	604.3	551.8	534.7
25°	704.4	649.5	564.0	504.2	484.7
27.5°	676.3	611.6	520.1	457.8	432.2
30°	644.6	573.8	472.5	407.8	383.3
32.5°	610.4	532.3	429.7	360.1	330.8
35°	576.2	492.0	383.3	308.9	282.0
37.5°	543.3	454.1	336.9	258.8	233.2
40°	507.9	412.6	294.2	213.6	184.3
42.5°	471.2	372.3	250.3	167.3	135.5
45°	434.6	334.5	208.8	119.6	84.2
47.5°	398.0	294.2	168.5	75.7	45.2
50°	356.5	255.1	128.2	40.3	25.6
52.5°	317.4	218.5	91.6	23.2	19.5
55°	274.7	180.7	58.6	17.1	15.9
57.5°	234.4	144.1	33.0	13.4	12.2
60°	191.7	111.1	18.3	11.0	9.8
62.5°	148.9	80.6	12.2	7.3	6.1
65°	111.1	53.7	8.5	4.9	3.7
67.5°	73.2	30.5	6.1	2.4	2.4
70°	40.3	14.6	3.7	2.4	2.4
72.5°	14.6	4.9	2.4	1.2	1.2
75°	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	1.2
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	15.42	16.68	15.79	16.99	17.31	0.00	0.00	0.00	0.00	0.00
	3H	15.70	16.81	16.08	17.14	17.50	0.00	0.00	0.00	0.00	0.00
	4H	15.63	16.65	16.03	17.00	17.39	0.00	0.00	0.00	0.00	0.00
	6H	15.54	16.48	15.95	16.85	17.24	0.00	0.00	0.00	0.00	0.00
	8H	15.49	16.38	15.92	16.77	17.18	0.00	0.00	0.00	0.00	0.00
	12H	15.45	16.29	15.88	16.68	17.11	0.00	0.00	0.00	0.00	0.00
4H	2H	15.20	16.22	15.60	16.57	16.96	0.00	0.00	0.00	0.00	0.30
	3H	15.48	16.31	15.89	16.71	17.12	0.00	0.00	0.00	0.00	0.30
	4H	15.39	16.12	15.82	16.54	16.99	0.00	0.00	0.00	0.00	0.25
	6H	15.30	15.93	15.77	16.38	16.85	0.00	0.00	0.00	0.00	0.13
	8H	15.24	15.83	15.71	16.28	16.75	0.00	0.00	0.00	0.00	0.03
	12H	15.19	15.70	15.68	16.19	16.66	0.00	0.00	0.00	0.00	0.00
8H	4H	15.24	15.83	15.71	16.28	16.75	0.00	0.00	0.00	0.00	0.22
	6H	15.13	15.61	15.64	16.11	16.59	0.00	0.00	0.00	0.00	0.08
	8H	15.06	15.49	15.59	16.01	16.50	0.00	0.00	0.00	0.00	0.00
	12H	15.01	15.39	15.53	15.89	16.46	0.00	0.00	0.00	0.00	0.00
12H	4H	15.19	15.70	15.68	16.19	16.66	0.00	0.00	0.00	0.00	0.13
	6H	15.06	15.49	15.59	16.01	16.50	0.00	0.00	0.00	0.00	0.00
	8H	15.01	15.39	15.53	15.89	16.46	0.00	0.00	0.00	0.00	0.00