

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: P1060346

Luminaire Tested: S124RDRP-S1195D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-78)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D930-X4F0-XX-UDD-BVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

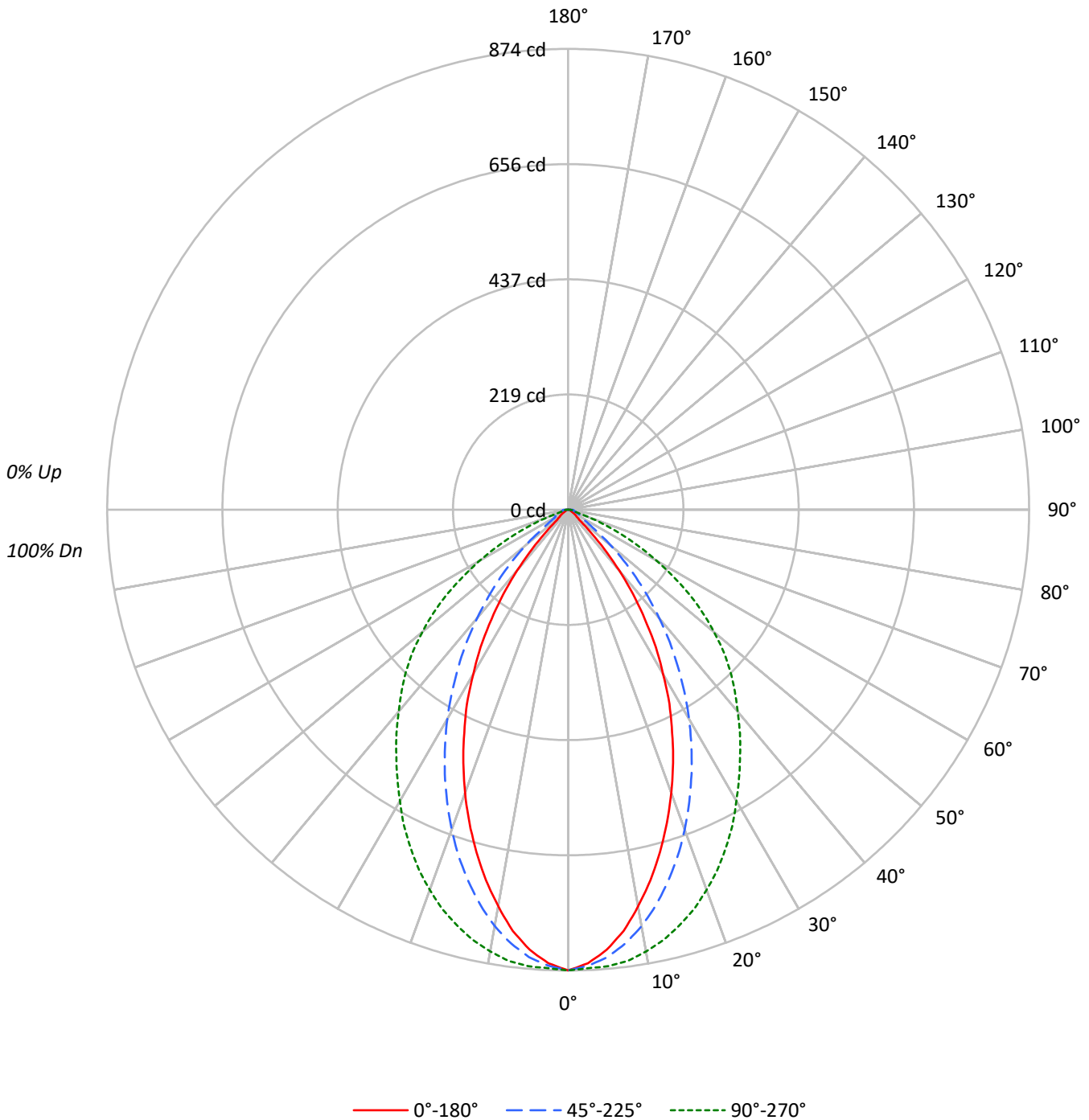
Lumens per Lamp: N/A
Luminaire Lumens: 1096.6 lumens
Efficiency: N/A
Efficacy: 26.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.97
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7524	7524	7524
5°	7243	7363	7513
10°	6679	7013	7438
15°	5994	6510	7274
20°	5239	5918	7031
25°	4431	5256	6718
30°	3579	4557	6341
35°	2664	3808	5973
40°	1691	3018	5619
45°	676	2213	5299
50°	295	1411	4837
55°	225	730	4222
60°	160	498	3348
65°	118	495	2288
70°	116	438	1050
75°	153	462	423
80°	228	516	461
85°	454	919	682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5299 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	7.3
10°-20°	206.3	18.8
20°-30°	260.6	23.8
30°-40°	239.3	21.8
40°-50°	163.2	14.9
50°-60°	88.5	8.1
60°-70°	37.5	3.4
70°-80°	13.0	1.2
80°-90°	8.3	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°	546.8	49.9
0°-40°	786.2	71.7
0°-60°	1037.8	94.6
0°-90°	1096.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1096.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	838	851	852	859	869	78
15°	672	694	730	782	816	187
25°	466	496	553	639	707	213
35°	253	287	362	476	568	157
45°	56	89	182	322	435	51
55°	15	16	49	177	281	14
65°	6	7	24	56	112	6
75°	5	13	14	13	13	5
85°	5	9	9	9	7	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	873.7	873.7	873.7	873.7	873.7
2.5°	861.0	871.4	865.6	868.0	870.3
5°	837.9	850.6	851.8	858.7	869.1
7.5°	805.5	820.5	829.8	847.1	863.3
10°	763.8	782.3	802.0	829.8	850.6
12.5°	719.8	739.5	768.4	807.8	835.6
15°	672.4	694.4	730.2	782.3	815.9
17.5°	622.6	646.9	689.7	751.1	793.9
20°	571.7	598.3	645.8	715.2	767.3
22.5°	519.6	547.4	599.5	678.2	739.5
25°	466.4	496.5	553.2	638.8	707.1
27.5°	415.5	443.2	505.7	599.5	674.7
30°	359.9	391.2	458.3	559.0	637.7
32.5°	309.0	339.1	409.7	517.3	602.9
35°	253.4	287.0	362.2	475.6	568.2
37.5°	201.4	233.8	315.9	436.3	534.7
40°	150.4	184.0	268.5	396.9	499.9
42.5°	100.7	136.6	223.4	356.4	467.5
45°	55.5	89.1	181.7	321.7	435.1
47.5°	28.9	48.6	142.3	287.0	400.4
50°	22.0	26.6	105.3	248.8	361.1
52.5°	18.5	19.7	71.8	210.6	321.7
55°	15.0	16.2	48.6	177.1	281.2
57.5°	11.6	12.7	34.7	144.7	236.1
60°	9.3	10.4	28.9	111.1	194.4
62.5°	6.9	8.1	27.8	82.2	152.8
65°	5.8	6.9	24.3	55.5	112.3
67.5°	4.6	6.9	20.8	35.9	75.2
70°	4.6	9.3	17.4	23.1	41.7
72.5°	4.6	10.4	15.0	15.0	15.0
75°	4.6	12.7	13.9	12.7	12.7
77.5°	4.6	11.6	11.6	11.6	11.6
80°	4.6	10.4	10.4	10.4	9.3
82.5°	4.6	9.3	10.4	10.4	8.1
85°	4.6	9.3	9.3	9.3	6.9
87.5°	3.5	9.3	9.3	9.3	4.6
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	0.00	0.00	0.00	0.00	0.00	15.46	16.73	15.82	17.04	17.36
	3H	0.00	0.08	0.00	0.41	0.78	15.81	16.94	16.19	17.27	17.63
	4H	0.33	1.38	0.74	1.73	2.12	15.78	16.83	16.18	17.18	17.56
	6H	1.70	2.66	2.12	3.03	3.43	15.75	16.71	16.17	17.09	17.48
	8H	2.38	3.29	2.81	3.68	4.09	15.74	16.65	16.17	17.04	17.45
	12H	3.18	4.05	3.61	4.43	4.87	15.74	16.61	16.17	16.99	17.42
4H	2H	1.15	2.20	1.55	2.55	2.93	15.26	16.31	15.66	16.66	17.04
	3H	2.57	3.43	2.98	3.83	4.23	15.65	16.51	16.07	16.91	17.32
	4H	4.02	4.78	4.45	5.20	5.64	15.63	16.40	16.07	16.82	17.26
	6H	5.26	5.92	5.72	6.37	6.83	15.65	16.31	16.12	16.76	17.22
	8H	5.83	6.44	6.30	6.89	7.36	15.66	16.28	16.13	16.72	17.19
	12H	6.50	7.05	6.99	7.53	8.01	15.70	16.24	16.18	16.72	17.20
8H	4H	5.09	5.71	5.56	6.16	6.63	15.53	16.15	16.00	16.59	17.07
	6H	6.70	7.21	7.21	7.70	8.19	15.58	16.08	16.09	16.58	17.06
	8H	7.54	7.99	8.06	8.51	9.00	15.64	16.09	16.16	16.61	17.10
	12H	8.51	8.91	9.03	9.40	9.98	15.76	16.16	16.27	16.65	17.22
12H	4H	5.28	5.82	5.77	6.31	6.78	15.49	16.04	15.98	16.52	17.00
	6H	7.05	7.50	7.57	8.02	8.51	15.55	16.00	16.07	16.52	17.01
	8H	8.08	8.47	8.59	8.97	9.54	15.66	16.05	16.17	16.55	17.12