

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: P1060521

Luminaire Tested: S124RDRP-S575D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060521
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-S575D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

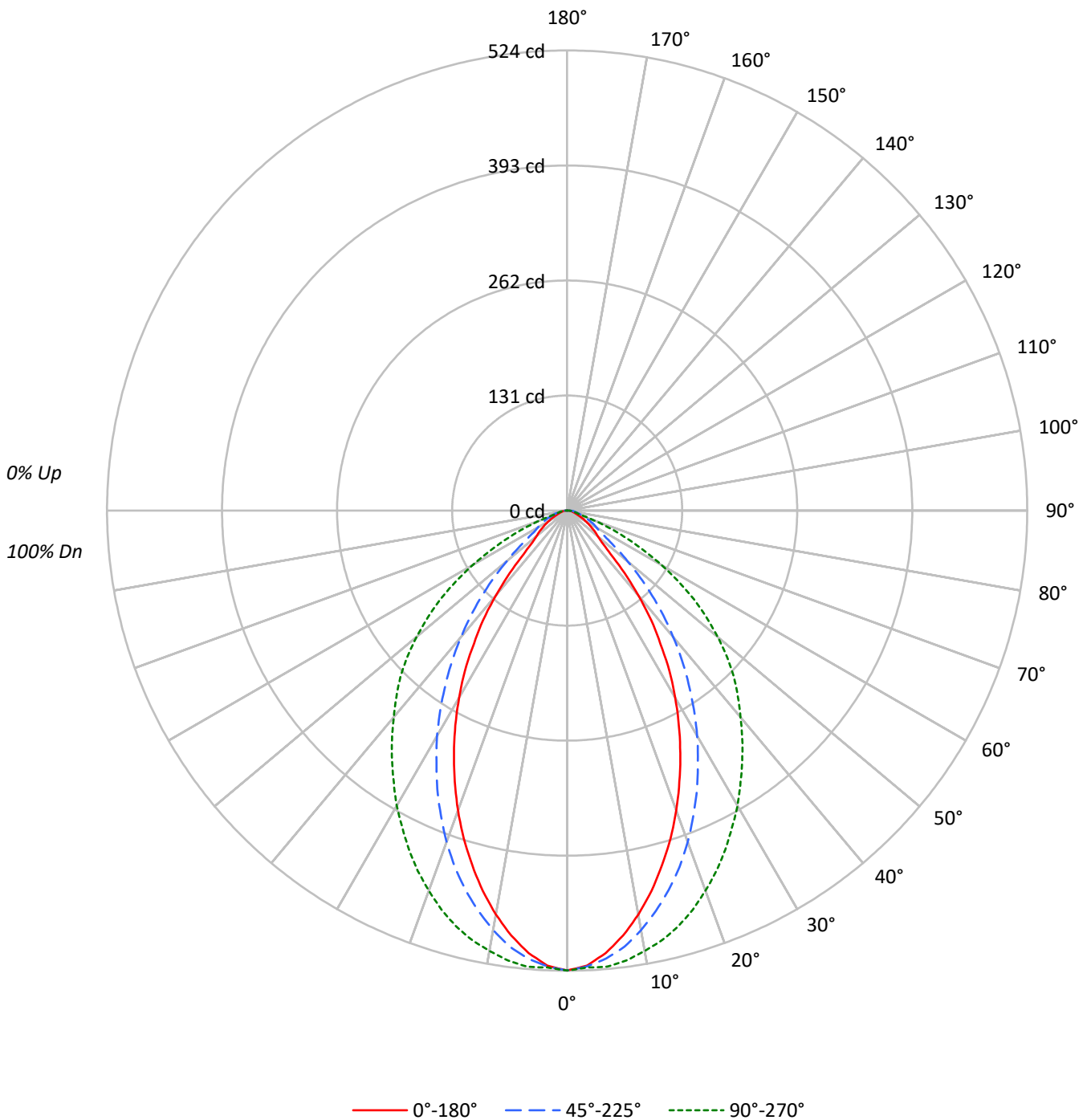
Lumens per Lamp: N/A
Luminaire Lumens: 741.3 lumens
Efficiency: N/A
Efficacy: 37.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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°	4510	4510	4510
5°	4370	4426	4507
10°	4083	4242	4452
15°	3725	3986	4367
20°	3330	3678	4220
25°	2897	3325	4048
30°	2444	2944	3858
35°	1944	2535	3654
40°	1414	2111	3453
45°	855	1667	3271
50°	611	1207	2994
55°	518	817	2644
60°	424	665	2137
65°	334	597	1538
70°	279	501	811
75°	253	466	409
80°	263	466	407
85°	346	692	464

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3271 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	6.5
10°-20°	126.4	17.0
20°-30°	163.9	22.1
30°-40°	157.8	21.3
40°-50°	117.3	15.8
50°-60°	72.2	9.7
60°-70°	35.5	4.8
70°-80°	13.8	1.9
80°-90°	6.3	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°	338.4	45.7
0°-40°	496.2	66.9
0°-60°	685.7	92.5
0°-90°	741.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	741.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	506	513	512	517	521	47
15°	418	431	447	474	490	117
25°	305	321	350	394	426	139
35°	185	202	241	301	348	116
45°	70	87	137	211	269	58
55°	34	36	54	124	176	31
65°	16	18	29	47	76	17
75°	8	14	14	13	12	8
85°	4	6	7	7	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	523.7	523.7	523.7	523.7	523.7
2.5°	518.5	524.3	519.6	520.2	520.8
5°	505.6	513.2	512.0	516.7	521.4
7.5°	488.0	496.8	500.9	510.3	516.7
10°	467.0	476.9	485.1	500.3	509.1
12.5°	443.6	455.3	467.0	487.5	500.9
15°	417.8	431.3	447.1	474.0	489.8
17.5°	391.5	404.9	425.4	456.4	476.3
20°	363.4	378.0	401.4	436.0	460.5
22.5°	334.1	349.9	375.7	414.9	444.2
25°	304.9	321.3	349.9	393.8	426.0
27.5°	275.6	291.4	322.4	371.6	406.7
30°	245.8	262.2	296.1	347.6	388.0
32.5°	217.1	232.3	268.6	324.8	367.5
35°	184.9	202.5	241.1	301.4	347.6
37.5°	157.4	173.2	214.8	278.0	327.7
40°	125.8	143.4	187.8	255.1	307.2
42.5°	96.6	114.1	162.1	232.3	287.9
45°	70.2	87.2	136.9	211.3	268.6
47.5°	53.3	63.2	112.4	190.8	246.9
50°	45.6	48.6	90.1	168.5	223.5
52.5°	40.4	41.5	70.2	146.3	200.1
55°	34.5	35.7	54.4	124.1	176.1
57.5°	29.3	29.8	43.9	103.0	150.4
60°	24.6	25.2	38.6	82.5	124.1
62.5°	20.5	21.1	34.5	63.8	98.9
65°	16.4	17.6	29.3	46.8	75.5
67.5°	13.5	15.8	24.6	32.8	52.7
70°	11.1	15.2	19.9	22.8	32.2
72.5°	9.4	14.0	17.0	16.4	15.8
75°	7.6	13.5	14.0	12.9	12.3
77.5°	6.4	11.7	11.7	10.5	9.9
80°	5.3	9.4	9.4	9.4	8.2
82.5°	4.7	7.6	8.2	8.2	6.4
85°	3.5	6.4	7.0	7.0	4.7
87.5°	2.3	5.9	6.4	5.9	3.5
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	5.01	6.35	5.38	6.67	6.98	14.19	15.53	14.55	15.84	16.16
	3H	6.13	7.32	6.51	7.65	8.01	14.69	15.88	15.07	16.21	16.58
	4H	6.64	7.75	7.05	8.11	8.49	14.71	15.82	15.12	16.17	16.56
	6H	7.08	8.10	7.49	8.47	8.86	14.72	15.75	15.14	16.12	16.51
	8H	7.27	8.24	7.70	8.63	9.03	14.73	15.69	15.16	16.09	16.49
	12H	7.45	8.38	7.88	8.76	9.19	14.73	15.65	15.16	16.04	16.47
4H	2H	6.16	7.27	6.56	7.62	8.01	14.08	15.19	14.48	15.54	15.92
	3H	7.50	8.41	7.92	8.82	9.22	14.67	15.58	15.08	15.98	16.38
	4H	8.24	9.05	8.67	9.47	9.91	14.73	15.54	15.16	15.96	16.40
	6H	8.85	9.55	9.31	10.00	10.46	14.80	15.51	15.26	15.95	16.42
	8H	9.09	9.75	9.56	10.20	10.67	14.83	15.49	15.30	15.94	16.41
	12H	9.33	9.91	9.81	10.39	10.87	14.87	15.45	15.36	15.94	16.41
8H	4H	8.71	9.36	9.18	9.81	10.28	14.69	15.34	15.15	15.79	16.26
	6H	9.56	10.10	10.06	10.59	11.07	14.81	15.35	15.31	15.85	16.33
	8H	9.96	10.45	10.49	10.96	11.45	14.90	15.38	15.42	15.89	16.39
	12H	10.39	10.81	10.90	11.31	11.88	15.02	15.44	15.53	15.94	16.51
12H	4H	8.76	9.34	9.25	9.82	10.30	14.66	15.24	15.14	15.72	16.20
	6H	9.69	10.17	10.21	10.69	11.18	14.79	15.28	15.32	15.79	16.28
	8H	10.21	10.64	10.73	11.14	11.71	14.93	15.36	15.44	15.85	16.42