

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: P1060512

Luminaire Tested: S124RDRP-S575D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060512
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-S575D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

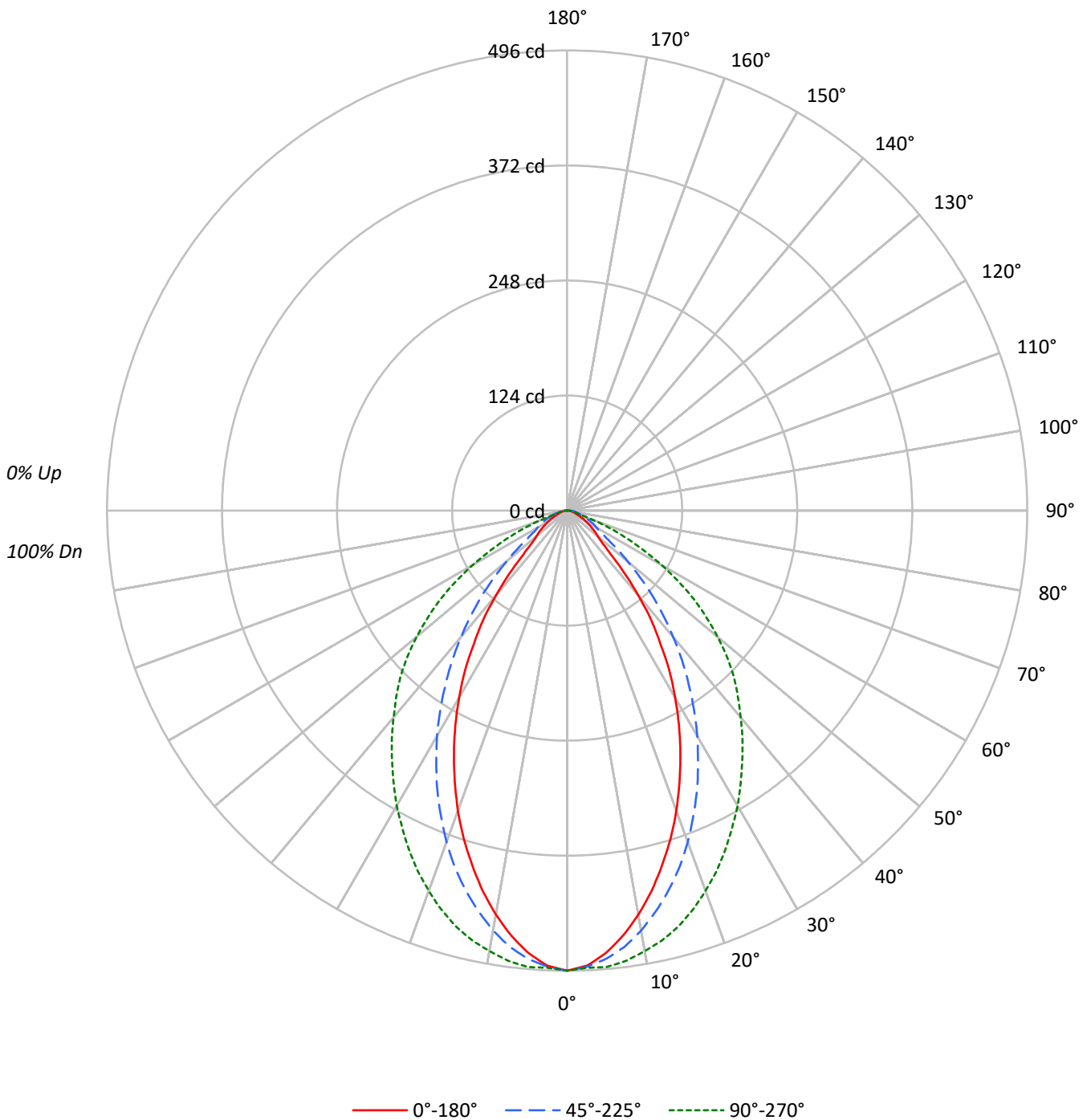
Lumens per Lamp: N/A
Luminaire Lumens: 701.9 lumens
Efficiency: N/A
Efficacy: 35.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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°	4270	4270	4270
5°	4139	4191	4268
10°	3867	4017	4215
15°	3527	3774	4135
20°	3153	3483	3996
25°	2743	3149	3833
30°	2314	2788	3653
35°	1841	2400	3460
40°	1339	2000	3270
45°	810	1579	3097
50°	579	1143	2836
55°	491	773	2504
60°	401	630	2024
65°	316	564	1457
70°	264	473	768
75°	240	443	386
80°	248	441	387
85°	326	652	435

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3097 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	6.5
10°-20°	119.6	17.0
20°-30°	155.2	22.1
30°-40°	149.4	21.3
40°-50°	111.1	15.8
50°-60°	68.3	9.7
60°-70°	33.6	4.8
70°-80°	13.1	1.9
80°-90°	6.0	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°	320.5	45.7
0°-40°	469.8	66.9
0°-60°	649.3	92.5
0°-90°	701.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	701.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	479	486	485	489	494	45
15°	396	408	423	449	464	111
25°	289	304	331	373	403	132
35°	175	192	228	285	329	109
45°	66	83	130	200	254	55
55°	33	34	52	118	167	29
65°	16	17	28	44	72	16
75°	7	13	13	12	12	8
85°	3	6	7	7	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	495.9	495.9	495.9	495.9	495.9
2.5°	491.0	496.5	492.1	492.6	493.2
5°	478.8	486.0	484.9	489.3	493.7
7.5°	462.1	470.4	474.3	483.2	489.3
10°	442.2	451.6	459.4	473.8	482.1
12.5°	420.0	431.1	442.2	461.6	474.3
15°	395.6	408.4	423.3	448.8	463.8
17.5°	370.7	383.5	402.8	432.2	451.1
20°	344.1	358.0	380.1	412.8	436.1
22.5°	316.4	331.4	355.7	392.9	420.6
25°	288.7	304.2	331.4	372.9	403.4
27.5°	261.0	276.0	305.3	351.9	385.1
30°	232.7	248.2	280.4	329.1	367.4
32.5°	205.6	220.0	254.3	307.5	348.0
35°	175.1	191.7	228.3	285.4	329.1
37.5°	149.1	164.0	203.4	263.2	310.3
40°	119.1	135.8	177.9	241.6	290.9
42.5°	91.4	108.1	153.5	220.0	272.6
45°	66.5	82.6	129.7	200.0	254.3
47.5°	50.4	59.8	106.4	180.6	233.8
50°	43.2	46.0	85.3	159.6	211.7
52.5°	38.2	39.3	66.5	138.5	189.5
55°	32.7	33.8	51.5	117.5	166.8
57.5°	27.7	28.3	41.6	97.5	142.4
60°	23.3	23.8	36.6	78.1	117.5
62.5°	19.4	19.9	32.7	60.4	93.6
65°	15.5	16.6	27.7	44.3	71.5
67.5°	12.7	15.0	23.3	31.0	49.9
70°	10.5	14.4	18.8	21.6	30.5
72.5°	8.9	13.3	16.1	15.5	15.0
75°	7.2	12.7	13.3	12.2	11.6
77.5°	6.1	11.1	11.1	10.0	9.4
80°	5.0	8.9	8.9	8.9	7.8
82.5°	4.4	7.2	7.8	7.8	6.1
85°	3.3	6.1	6.6	6.6	4.4
87.5°	2.2	5.5	6.1	5.5	3.3
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	4.84	6.18	5.20	6.49	6.81	14.00	15.34	14.36	15.65	15.96
	3H	5.94	7.13	6.32	7.46	7.83	14.50	15.69	14.88	16.02	16.39
	4H	6.46	7.57	6.86	7.92	8.30	14.52	15.63	14.92	15.98	16.37
	6H	6.89	7.92	7.31	8.29	8.68	14.53	15.55	14.95	15.92	16.32
	8H	7.08	8.05	7.51	8.44	8.85	14.54	15.50	14.97	15.90	16.30
	12H	7.26	8.19	7.69	8.57	9.00	14.54	15.46	14.97	15.85	16.28
4H	2H	5.98	7.09	6.38	7.44	7.82	13.89	15.00	14.29	15.35	15.73
	3H	7.32	8.23	7.73	8.63	9.03	14.48	15.39	14.89	15.79	16.19
	4H	8.05	8.86	8.48	9.28	9.72	14.54	15.35	14.97	15.77	16.21
	6H	8.66	9.36	9.12	9.81	10.27	14.61	15.31	15.07	15.76	16.23
	8H	8.90	9.56	9.37	10.00	10.47	14.64	15.30	15.11	15.75	16.22
	12H	9.13	9.72	9.62	10.20	10.67	14.68	15.26	15.17	15.75	16.22
8H	4H	8.52	9.17	8.98	9.62	10.09	14.49	15.15	14.96	15.60	16.07
	6H	9.37	9.91	9.87	10.40	10.88	14.62	15.16	15.12	15.66	16.14
	8H	9.77	10.26	10.30	10.77	11.26	14.71	15.19	15.23	15.71	16.20
	12H	10.20	10.62	10.71	11.12	11.69	14.83	15.25	15.34	15.75	16.32
12H	4H	8.57	9.15	9.06	9.63	10.11	14.47	15.05	14.95	15.53	16.00
	6H	9.50	9.99	10.02	10.50	10.99	14.60	15.09	15.13	15.60	16.09
	8H	10.02	10.45	10.54	10.95	11.52	14.74	15.17	15.25	15.66	16.23