

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060764

Luminaire Tested: S124RDR-H1195D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060764
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: S124RDR-H1195D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

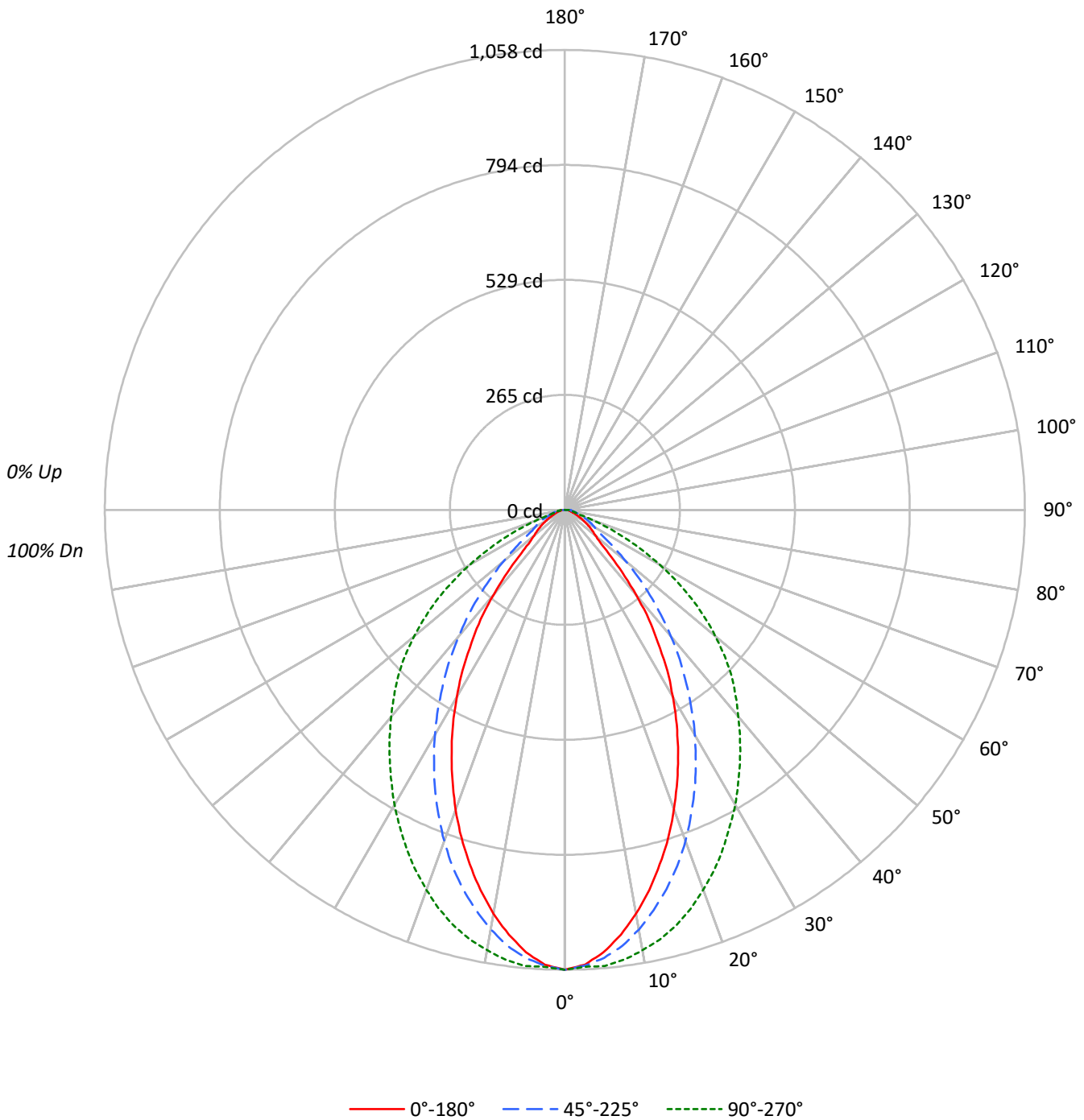
Lumens per Lamp: N/A
Luminaire Lumens: 1497.5 lumens
Efficiency: N/A
Efficacy: 41.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): 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°	9111	9111	9111
5°	8829	8941	9105
10°	8249	8569	8993
15°	7525	8052	8821
20°	6727	7432	8526
25°	5852	6717	8177
30°	4937	5948	7794
35°	3927	5121	7382
40°	2857	4266	6977
45°	1728	3368	6608
50°	1235	2440	6050
55°	1046	1650	5342
60°	856	1343	4316
65°	674	1204	3107
70°	566	1012	1637
75°	512	945	825
80°	526	937	823
85°	701	1403	939

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6608 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	6.5
10°-20°	255.3	17.0
20°-30°	331.0	22.1
30°-40°	318.7	21.3
40°-50°	237.1	15.8
50°-60°	145.8	9.7
60°-70°	71.6	4.8
70°-80°	27.9	1.9
80°-90°	12.7	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°	683.7	45.7
0°-40°	1002.4	66.9
0°-60°	1385.3	92.5
0°-90°	1497.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1497.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1021	1037	1034	1044	1053	95
15°	844	871	903	958	990	236
25°	616	649	707	796	861	282
35°	374	409	487	609	702	233
45°	142	176	277	427	543	118
55°	70	72	110	251	356	63
65°	33	36	59	95	152	34
75°	15	27	28	26	25	17
85°	7	13	14	14	10	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.1	1058.1	1058.1	1058.1	1058.1
2.5°	1047.4	1059.2	1049.8	1051.0	1052.2
5°	1021.4	1036.8	1034.4	1043.9	1053.3
7.5°	985.9	1003.7	1012.0	1030.9	1043.9
10°	943.4	963.5	980.0	1010.8	1028.5
12.5°	896.1	919.7	943.4	984.8	1012.0
15°	844.1	871.3	903.2	957.6	989.5
17.5°	790.9	818.1	859.5	922.1	962.3
20°	734.1	763.7	811.0	880.7	930.4
22.5°	675.0	707.0	759.0	838.2	897.3
25°	615.9	649.0	707.0	795.6	860.6
27.5°	556.8	588.7	651.4	750.7	821.6
30°	496.5	529.6	598.2	702.2	783.8
32.5°	438.6	469.3	542.6	656.1	742.4
35°	373.6	409.0	487.1	608.8	702.2
37.5°	318.0	349.9	433.9	561.5	662.0
40°	254.2	289.6	379.5	515.4	620.7
42.5°	195.1	230.5	327.5	469.3	581.6
45°	141.9	176.1	276.6	426.8	542.6
47.5°	107.6	127.7	227.0	385.4	498.9
50°	92.2	98.1	182.1	340.5	451.6
52.5°	81.6	83.9	141.9	295.5	404.3
55°	69.7	72.1	109.9	250.6	355.8
57.5°	59.1	60.3	88.7	208.1	303.8
60°	49.7	50.8	78.0	166.7	250.6
62.5°	41.4	42.6	69.7	128.9	199.8
65°	33.1	35.5	59.1	94.6	152.5
67.5°	27.2	31.9	49.7	66.2	106.4
70°	22.5	30.7	40.2	46.1	65.0
72.5°	18.9	28.4	34.3	33.1	31.9
75°	15.4	27.2	28.4	26.0	24.8
77.5°	13.0	23.6	23.6	21.3	20.1
80°	10.6	18.9	18.9	18.9	16.6
82.5°	9.5	15.4	16.6	16.6	13.0
85°	7.1	13.0	14.2	14.2	9.5
87.5°	4.7	11.8	13.0	11.8	7.1
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	7.46	8.80	7.83	9.12	9.43	16.63	17.97	17.00	18.28	18.60
	3H	8.57	9.76	8.95	10.09	10.46	17.14	18.33	17.52	18.66	19.02
	4H	9.09	10.20	9.49	10.55	10.93	17.16	18.27	17.56	18.62	19.00
	6H	9.52	10.54	9.94	10.91	11.31	17.17	18.19	17.58	18.56	18.95
	8H	9.71	10.68	10.14	11.07	11.48	17.17	18.14	17.60	18.53	18.93
	12H	9.90	10.82	10.33	11.20	11.63	17.17	18.10	17.61	18.48	18.91
4H	2H	8.61	9.72	9.01	10.07	10.45	16.52	17.63	16.92	17.98	18.37
	3H	9.95	10.86	10.36	11.26	11.66	17.11	18.02	17.52	18.42	18.83
	4H	10.68	11.49	11.12	11.91	12.36	17.17	17.98	17.60	18.40	18.84
	6H	11.29	11.99	11.75	12.44	12.90	17.25	17.95	17.71	18.39	18.86
	8H	11.53	12.19	12.00	12.64	13.11	17.28	17.93	17.74	18.38	18.85
	12H	11.77	12.35	12.26	12.83	13.31	17.32	17.90	17.80	18.38	18.85
8H	4H	11.15	11.80	11.62	12.25	12.72	17.13	17.78	17.60	18.23	18.70
	6H	12.00	12.53	12.50	13.03	13.51	17.25	17.79	17.76	18.29	18.77
	8H	12.40	12.89	12.92	13.40	13.89	17.34	17.82	17.86	18.34	18.83
	12H	12.83	13.26	13.34	13.75	14.32	17.46	17.89	17.97	18.38	18.95
12H	4H	11.20	11.78	11.69	12.27	12.74	17.10	17.68	17.59	18.16	18.64
	6H	12.13	12.61	12.65	13.13	13.62	17.24	17.72	17.76	18.24	18.73
	8H	12.65	13.08	13.17	13.58	14.15	17.37	17.80	17.88	18.29	18.86