

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: P1060539

Luminaire Tested: S124RDRP-S575D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060539
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-S575D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

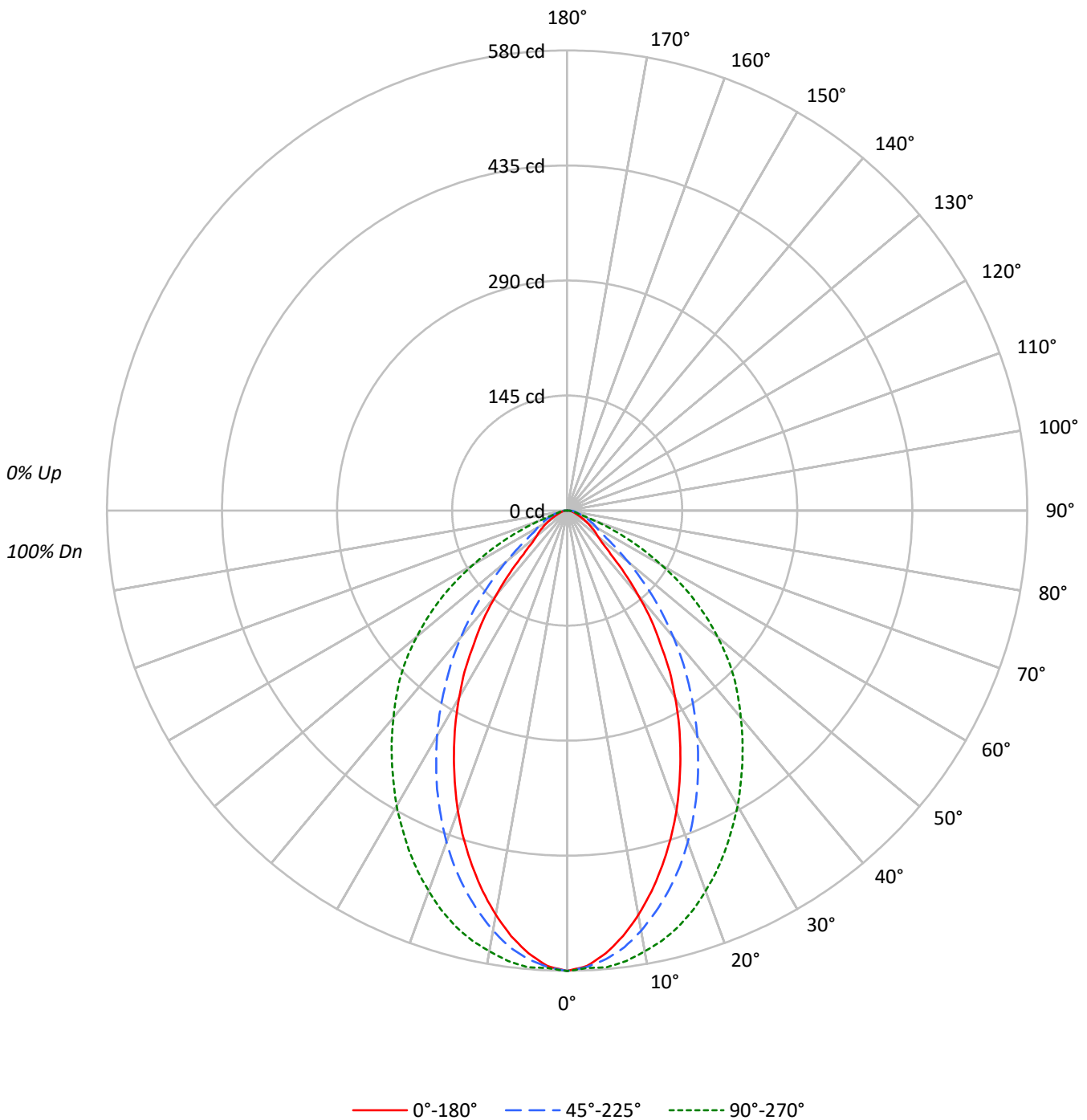
Lumens per Lamp: N/A
Luminaire Lumens: 821.4 lumens
Efficiency: N/A
Efficacy: 41.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	76	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°	4997	4997	4997
5°	4842	4904	4994
10°	4524	4700	4932
15°	4128	4416	4838
20°	3690	4076	4676
25°	3210	3684	4485
30°	2708	3262	4275
35°	2154	2808	4048
40°	1567	2339	3826
45°	947	1847	3624
50°	678	1338	3318
55°	575	905	2931
60°	468	737	2368
65°	371	660	1703
70°	310	554	899
75°	279	519	452
80°	288	516	451
85°	385	771	514

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3624 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	6.5
10°-20°	140.0	17.0
20°-30°	181.6	22.1
30°-40°	174.8	21.3
40°-50°	130.0	15.8
50°-60°	80.0	9.7
60°-70°	39.3	4.8
70°-80°	15.3	1.9
80°-90°	7.0	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°	375.0	45.7
0°-40°	549.8	66.9
0°-60°	759.8	92.5
0°-90°	821.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	821.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	580	580	580	580	580	
5°	560	569	567	572	578	52
15°	463	478	495	525	543	129
25°	338	356	388	436	472	155
35°	205	224	267	334	385	128
45°	78	97	152	234	298	65
55°	38	40	60	138	195	34
65°	18	20	32	52	84	19
75°	8	15	16	14	14	9
85°	4	7	8	8	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	580.3	580.3	580.3	580.3	580.3
2.5°	574.5	581.0	575.8	576.4	577.1
5°	560.2	568.6	567.3	572.5	577.7
7.5°	540.8	550.5	555.0	565.4	572.5
10°	517.4	528.4	537.5	554.4	564.1
12.5°	491.5	504.4	517.4	540.1	555.0
15°	463.0	477.9	495.4	525.2	542.7
17.5°	433.8	448.7	471.4	505.7	527.8
20°	402.7	418.9	444.8	483.1	510.3
22.5°	370.2	387.7	416.3	459.7	492.1
25°	337.8	356.0	387.7	436.4	472.0
27.5°	305.4	322.9	357.3	411.7	450.6
30°	272.3	290.5	328.1	385.1	429.9
32.5°	240.6	257.4	297.6	359.9	407.2
35°	204.9	224.3	267.1	333.9	385.1
37.5°	174.4	191.9	238.0	308.0	363.1
40°	139.4	158.9	208.1	282.7	340.4
42.5°	107.0	126.4	179.6	257.4	319.0
45°	77.8	96.6	151.7	234.1	297.6
47.5°	59.0	70.0	124.5	211.4	273.6
50°	50.6	53.8	99.9	186.7	247.7
52.5°	44.7	46.0	77.8	162.1	221.7
55°	38.3	39.6	60.3	137.5	195.2
57.5°	32.4	33.1	48.6	114.1	166.6
60°	27.2	27.9	42.8	91.4	137.5
62.5°	22.7	23.3	38.3	70.7	109.6
65°	18.2	19.5	32.4	51.9	83.6
67.5°	14.9	17.5	27.2	36.3	58.4
70°	12.3	16.9	22.0	25.3	35.7
72.5°	10.4	15.6	18.8	18.2	17.5
75°	8.4	14.9	15.6	14.3	13.6
77.5°	7.1	13.0	13.0	11.7	11.0
80°	5.8	10.4	10.4	10.4	9.1
82.5°	5.2	8.4	9.1	9.1	7.1
85°	3.9	7.1	7.8	7.8	5.2
87.5°	2.6	6.5	7.1	6.5	3.9
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	5.38	6.72	5.74	7.03	7.35	14.54	15.88	14.91	16.20	16.51
	3H	6.49	7.68	6.87	8.01	8.37	15.05	16.24	15.43	16.57	16.93
	4H	7.00	8.11	7.41	8.47	8.85	15.07	16.18	15.47	16.53	16.91
	6H	7.44	8.46	7.85	8.83	9.22	15.08	16.10	15.49	16.47	16.86
	8H	7.63	8.59	8.06	8.98	9.39	15.08	16.05	15.51	16.44	16.85
	12H	7.81	8.73	8.24	9.12	9.55	15.09	16.01	15.52	16.39	16.82
4H	2H	6.52	7.63	6.92	7.98	8.37	14.43	15.54	14.84	15.89	16.28
	3H	7.86	8.77	8.28	9.18	9.58	15.02	15.93	15.44	16.34	16.74
	4H	8.60	9.41	9.03	9.83	10.27	15.08	15.90	15.52	16.31	16.76
	6H	9.20	9.91	9.67	10.35	10.82	15.16	15.86	15.62	16.31	16.77
	8H	9.45	10.10	9.91	10.55	11.02	15.19	15.84	15.66	16.29	16.76
	12H	9.68	10.26	10.17	10.75	11.22	15.23	15.81	15.72	16.29	16.77
8H	4H	9.06	9.72	9.53	10.17	10.64	15.04	15.70	15.51	16.14	16.61
	6H	9.91	10.45	10.42	10.95	11.43	15.17	15.71	15.67	16.20	16.68
	8H	10.32	10.80	10.84	11.32	11.81	15.25	15.74	15.77	16.25	16.74
	12H	10.74	11.17	11.25	11.66	12.23	15.37	15.80	15.89	16.30	16.87
12H	4H	9.12	9.70	9.60	10.18	10.66	15.01	15.59	15.50	16.08	16.55
	6H	10.05	10.53	10.57	11.05	11.54	15.15	15.63	15.67	16.15	16.64
	8H	10.57	11.00	11.08	11.49	12.06	15.28	15.71	15.80	16.21	16.78