

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: P1057866

Luminaire Tested: S122RDRP-S1005D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-56)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S1005D950-X4F0-XX-UDD-SVL-W
Description: DEFINE 2 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

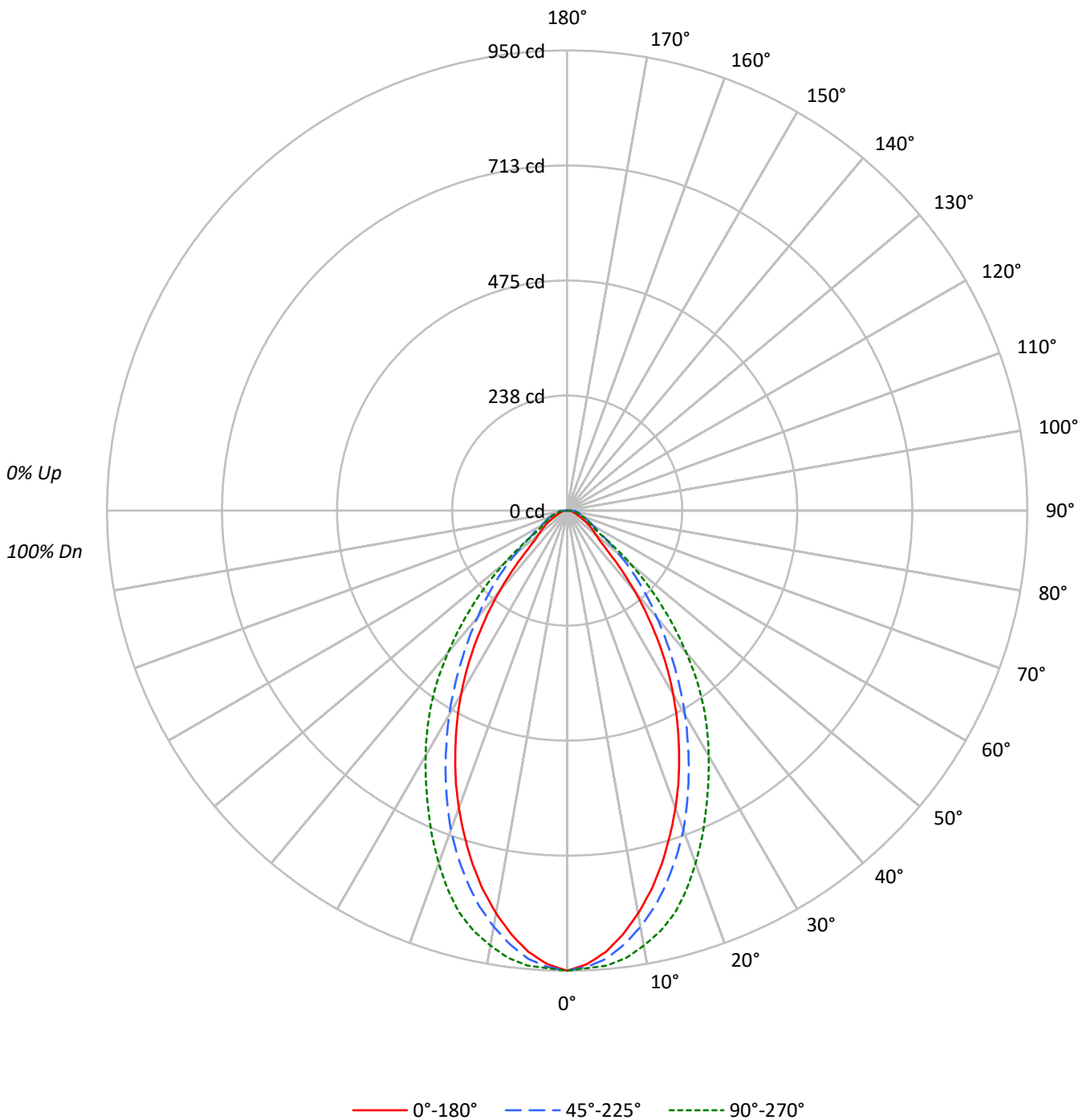
Lumens per Lamp: N/A
Luminaire Lumens: 1152.2 lumens
Efficiency: N/A
Efficacy: 27.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.98 / 0.95
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17528	17528	17528
5°	16941	17202	17463
10°	15814	16344	17085
15°	14425	15180	16421
20°	12833	13775	15216
25°	11121	12098	13822
30°	9322	10374	12450
35°	7344	8585	11033
40°	5237	6935	9214
45°	3095	5488	7145
50°	2228	3970	4863
55°	1863	2860	2451
60°	1509	2292	2085
65°	1231	2035	1912
70°	1068	1980	1829
75°	1005	2011	1811
80°	1052	2402	1945
85°	1503	3874	2392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7145 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	7.6
10°-20°	223.8	19.4
20°-30°	276.1	24.0
30°-40°	245.6	21.3
40°-50°	156.8	13.6
50°-60°	75.3	6.5
60°-70°	44.2	3.8
70°-80°	28.2	2.4
80°-90°	15.0	1.3
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°	587.1	51.0
0°-40°	832.7	72.3
0°-60°	1064.7	92.4
0°-90°	1152.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1152.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	915	932	929	934	943	85
15°	755	774	795	831	860	211
25°	546	567	594	637	679	250
35°	326	351	381	439	490	203
45°	119	154	210	244	274	99
55°	58	75	89	86	76	52
65°	28	51	47	42	44	28
75°	14	31	28	27	25	15
85°	7	17	18	16	11	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.9	949.9	949.9	949.9	949.9
2.5°	937.2	952.7	942.8	942.8	945.7
5°	914.6	931.5	928.7	934.4	942.8
7.5°	882.1	900.5	903.3	918.8	931.5
10°	844.0	863.8	872.3	894.8	911.8
12.5°	801.7	821.5	837.0	865.2	889.2
15°	755.1	773.5	794.6	831.3	859.6
17.5°	704.3	728.3	749.5	787.6	820.0
20°	653.5	676.1	701.5	738.2	774.9
22.5°	601.3	622.4	647.8	686.0	728.3
25°	546.2	567.4	594.2	636.6	678.9
27.5°	492.6	513.8	539.2	585.7	630.9
30°	437.5	458.7	486.9	534.9	584.3
32.5°	382.5	405.1	433.3	485.5	537.8
35°	326.0	351.4	381.1	439.0	489.8
37.5°	271.0	296.4	333.1	389.6	437.5
40°	217.4	247.0	287.9	338.7	382.5
42.5°	165.1	197.6	248.4	289.3	327.5
45°	118.6	153.8	210.3	244.2	273.8
47.5°	90.3	115.7	173.6	200.4	221.6
50°	77.6	93.2	138.3	158.1	169.4
52.5°	67.7	81.9	110.1	120.0	120.0
55°	57.9	74.8	88.9	86.1	76.2
57.5°	49.4	67.7	73.4	62.1	64.9
60°	40.9	62.1	62.1	55.0	56.5
62.5°	33.9	57.9	53.6	48.0	49.4
65°	28.2	50.8	46.6	42.3	43.8
67.5°	22.6	45.2	40.9	38.1	38.1
70°	19.8	40.9	36.7	33.9	33.9
72.5°	16.9	35.3	32.5	29.6	29.6
75°	14.1	31.1	28.2	26.8	25.4
77.5°	12.7	26.8	25.4	22.6	21.2
80°	9.9	22.6	22.6	21.2	18.3
82.5°	8.5	19.8	19.8	18.3	15.5
85°	7.1	16.9	18.3	15.5	11.3
87.5°	5.6	15.5	15.5	12.7	8.5
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	11.62	12.89	11.98	13.21	13.52	11.41	12.69	11.78	13.00	13.31
	3H	12.85	13.99	13.23	14.32	14.68	13.00	14.14	13.38	14.47	14.83
	4H	13.30	14.36	13.71	14.71	15.10	13.72	14.78	14.12	15.13	15.51
	6H	13.68	14.66	14.10	15.03	15.42	14.37	15.35	14.79	15.72	16.11
	8H	13.84	14.76	14.27	15.15	15.56	14.70	15.62	15.13	16.01	16.42
	12H	14.00	14.88	14.43	15.26	15.70	15.00	15.88	15.43	16.26	16.69
4H	2H	12.17	13.23	12.57	13.58	13.96	12.00	13.06	12.41	13.41	13.80
	3H	13.86	14.74	14.28	15.14	15.54	13.84	14.71	14.25	15.12	15.52
	4H	14.66	15.44	15.10	15.86	16.31	14.71	15.50	15.15	15.92	16.36
	6H	15.30	15.98	15.77	16.43	16.90	15.56	16.24	16.02	16.68	17.15
	8H	15.56	16.19	16.02	16.64	17.11	15.98	16.62	16.45	17.06	17.53
	12H	15.80	16.36	16.29	16.85	17.32	16.38	16.94	16.87	17.43	17.90
8H	4H	15.08	15.71	15.55	16.16	16.63	15.13	15.76	15.60	16.21	16.68
	6H	16.06	16.58	16.56	17.07	17.55	16.22	16.74	16.72	17.23	17.72
	8H	16.55	17.02	17.07	17.53	18.03	16.81	17.28	17.33	17.79	18.28
	12H	17.05	17.47	17.57	17.96	18.53	17.41	17.82	17.92	18.32	18.89
12H	4H	15.15	15.71	15.63	16.19	16.66	15.21	15.77	15.69	16.25	16.73
	6H	16.23	16.69	16.75	17.21	17.70	16.38	16.85	16.91	17.37	17.86
	8H	16.86	17.28	17.38	17.77	18.34	17.09	17.51	17.61	18.00	18.57