

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: P1217264

Luminaire Tested: S122DRP-H1005D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217264  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G3-2511-596-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DRP-H1005D950-X4F0-XX-UDD-G-W  
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

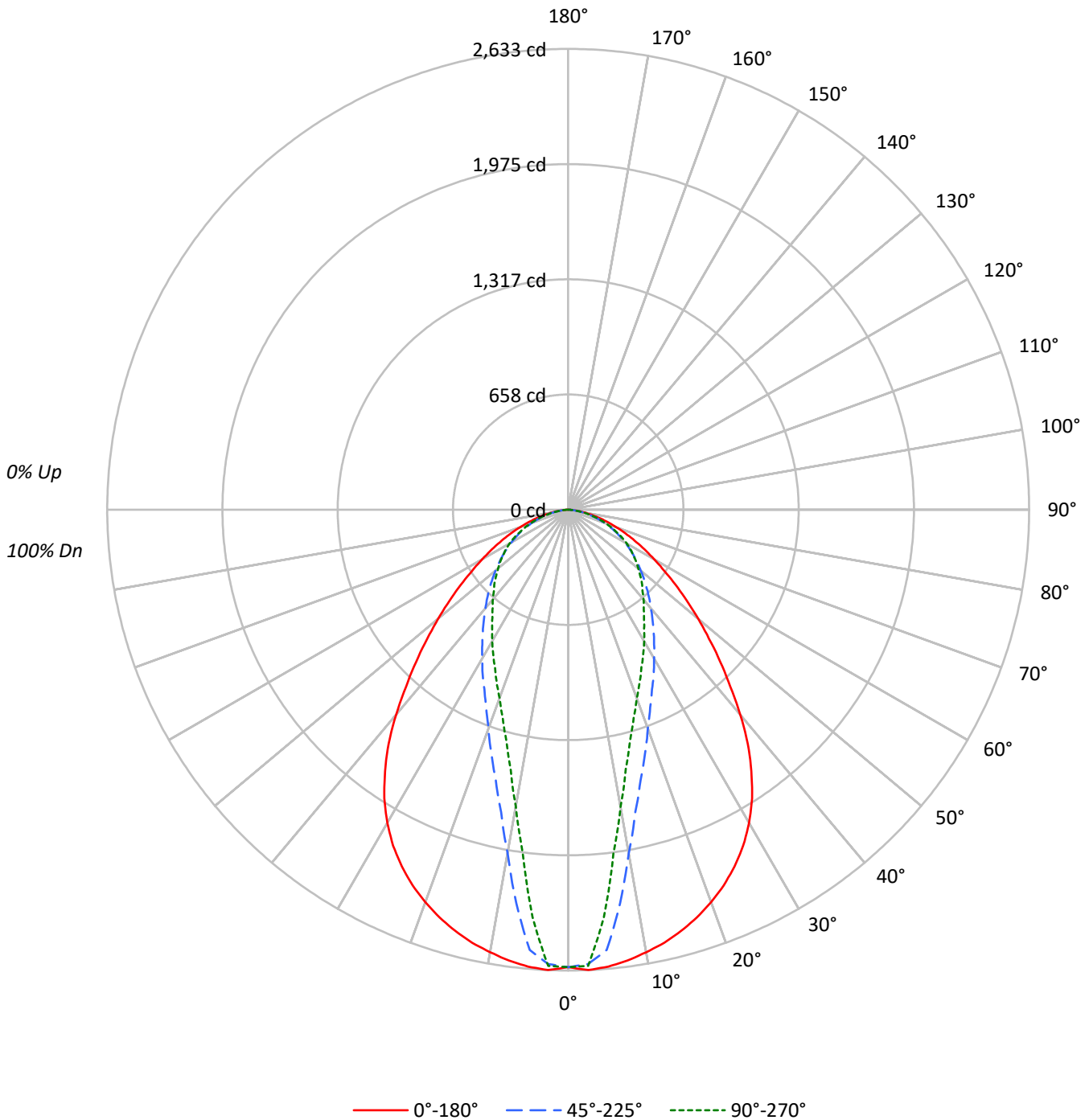
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3512.0 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 0.5 / 0.8  
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 36.6  
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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50
6	75	63	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	43	37	33	31

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	49515	49515	49515
5°	49835	48019	44467
10°	49388	38345	33153
15°	48882	31340	26767
20°	48104	26827	23089
25°	46997	23683	20720
30°	45215	21474	19000
35°	42191	19676	17469
40°	37833	18173	16556
45°	32913	16987	15964
50°	28570	15952	15392
55°	24724	15085	14996
60°	21439	14206	14619
65°	18761	13323	13812
70°	16164	12237	12685
75°	13476	10775	11178
80°	10561	8772	8477
85°	6521	5630	5630

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 32913 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.0	6.4
10°-20°	496.2	14.1
20°-30°	608.8	17.3
30°-40°	629.1	17.9
40°-50°	568.2	16.2
50°-60°	460.4	13.1
60°-70°	322.8	9.2
70°-80°	166.5	4.7
80°-90°	35.1	1.0
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°	1330.0	37.9
0°-40°	1959.1	55.8
0°-60°	2987.7	85.1
0°-90°	3512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3512.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2614	2614	2614	2614	2614	
5°	2620	2615	2525	2412	2338	248
15°	2492	2101	1598	1425	1365	702
25°	2248	1493	1133	1025	991	1033
35°	1824	1103	851	778	755	1134
45°	1228	795	634	598	596	950
55°	748	544	457	451	454	674
65°	418	335	297	304	308	418
75°	184	158	147	151	153	199
85°	30	26	26	26	26	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2613.5	2613.5	2613.5	2613.5	2613.5
2.5°	2632.6	2623.1	2598.5	2621.7	2609.5
5°	2620.4	2614.9	2524.9	2411.8	2338.1
7.5°	2598.5	2579.5	2268.6	2054.6	1982.3
10°	2567.2	2471.8	1993.2	1794.2	1723.3
12.5°	2534.5	2309.5	1771.0	1584.2	1520.1
15°	2492.2	2100.9	1597.8	1424.7	1364.7
17.5°	2443.1	1919.6	1460.1	1293.8	1246.1
20°	2385.9	1762.8	1330.6	1184.8	1145.2
22.5°	2323.1	1630.6	1222.9	1104.3	1067.5
25°	2248.2	1492.9	1132.9	1025.2	991.2
27.5°	2165.0	1387.9	1058.0	957.1	928.4
30°	2066.8	1285.6	981.6	891.6	868.5
32.5°	1955.0	1190.2	913.4	834.4	807.1
35°	1824.2	1103.0	850.7	778.5	755.3
37.5°	1685.1	1017.1	790.7	728.0	708.9
40°	1529.7	942.1	734.8	678.9	669.4
42.5°	1370.2	867.1	684.4	636.7	628.5
45°	1228.4	794.8	634.0	598.5	595.8
47.5°	1090.7	729.4	587.6	560.3	557.6
50°	969.3	661.2	541.2	523.5	522.2
52.5°	853.5	601.2	497.6	488.1	490.8
55°	748.5	544.0	456.7	451.3	454.0
57.5°	651.7	490.8	415.8	417.2	421.3
60°	565.8	436.3	374.9	380.4	385.8
62.5°	490.8	385.8	335.4	343.6	349.0
65°	418.5	335.4	297.2	304.0	308.1
67.5°	354.5	287.7	259.0	267.2	268.6
70°	291.8	244.0	220.9	229.0	229.0
72.5°	237.2	199.0	184.1	188.1	189.5
75°	184.1	158.1	147.2	151.3	152.7
77.5°	139.1	120.0	111.8	115.9	114.5
80°	96.8	84.5	80.4	79.1	77.7
82.5°	60.0	53.2	49.1	50.4	49.1
85°	30.0	25.9	25.9	25.9	25.9
87.5°	9.5	9.5	9.5	9.5	9.5
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	22.06	23.56	22.42	23.87	24.18	20.55	22.05	20.92	22.37	22.68
	3H	23.64	24.99	24.02	25.32	25.68	22.27	23.61	22.64	23.94	24.30
	4H	24.17	25.43	24.57	25.78	26.16	22.85	24.11	23.25	24.46	24.84
	6H	24.49	25.66	24.91	26.03	26.42	23.19	24.36	23.61	24.73	25.12
	8H	24.57	25.68	24.99	26.07	26.47	23.27	24.38	23.70	24.77	25.17
	12H	24.59	25.66	25.02	26.04	26.47	23.30	24.36	23.73	24.74	25.17
4H	2H	22.36	23.63	22.76	23.98	24.36	21.11	22.38	21.51	22.73	23.10
	3H	24.15	25.19	24.56	25.59	26.00	23.03	24.08	23.44	24.48	24.88
	4H	24.78	25.72	25.21	26.13	26.57	23.73	24.67	24.16	25.08	25.52
	6H	25.21	26.03	25.67	26.47	26.93	24.18	25.00	24.63	25.44	25.90
	8H	25.32	26.08	25.78	26.53	26.99	24.28	25.05	24.74	25.49	25.96
	12H	25.37	26.05	25.85	26.53	27.00	24.33	25.02	24.82	25.50	25.97
8H	4H	24.92	25.69	25.39	26.13	26.60	23.97	24.73	24.43	25.18	25.64
	6H	25.43	26.06	25.93	26.55	27.03	24.50	25.13	25.00	25.63	26.10
	8H	25.58	26.14	26.09	26.65	27.14	24.65	25.22	25.17	25.73	26.22
	12H	25.67	26.17	26.18	26.66	27.22	24.75	25.25	25.26	25.74	26.31
12H	4H	24.92	25.61	25.41	26.08	26.56	23.98	24.66	24.46	25.14	25.61
	6H	25.43	26.00	25.95	26.51	27.00	24.52	25.09	25.04	25.60	26.09
	8H	25.62	26.12	26.13	26.61	27.17	24.72	25.21	25.23	25.71	26.27