

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: P1217306

Luminaire Tested: S122DRP-S1005D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217306
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-S1005D930-X4F0-XX-UDD-G-W
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

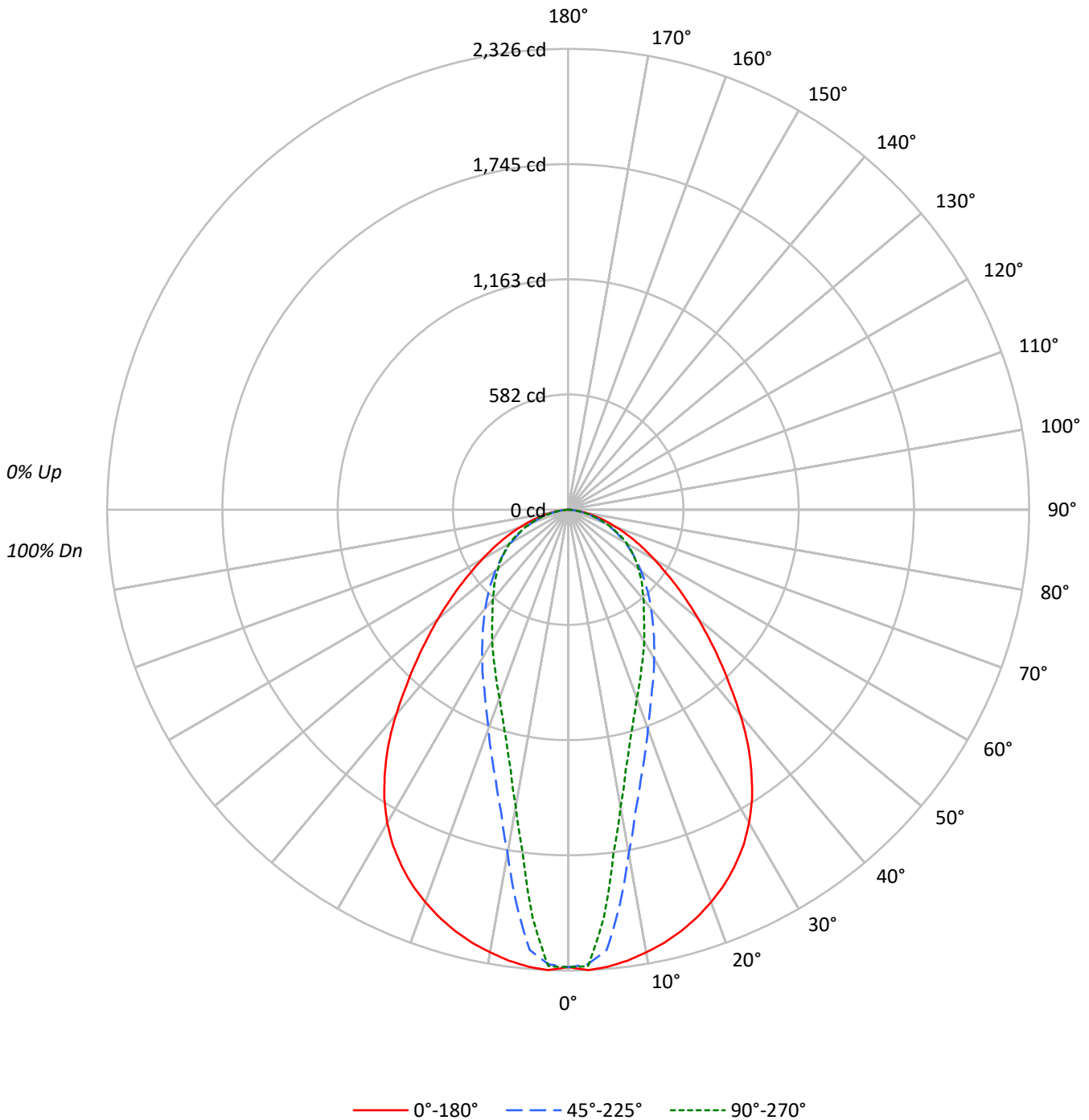
Lumens per Lamp: N/A
Luminaire Lumens: 3102.8 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 0.5 / 0.8
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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																		
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	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°	43746	43746	43746
5°	44027	42424	39286
10°	43632	33878	29290
15°	43187	27689	23649
20°	42497	23702	20400
25°	41520	20923	18306
30°	39947	18972	16786
35°	37274	17383	15434
40°	33423	16056	14627
45°	29076	15007	14104
50°	25242	14095	13597
55°	21843	13328	13249
60°	18942	12550	12917
65°	16578	11772	12203
70°	14281	10807	11212
75°	11903	9523	9875
80°	9328	7757	7496
85°	5761	4978	4978

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29076 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	6.4
10°-20°	438.4	14.1
20°-30°	537.8	17.3
30°-40°	555.8	17.9
40°-50°	502.0	16.2
50°-60°	406.8	13.1
60°-70°	285.2	9.2
70°-80°	147.1	4.7
80°-90°	31.0	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°	1175.0	37.9
0°-40°	1730.8	55.8
0°-60°	2639.5	85.1
0°-90°	3102.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3102.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2309	2309	2309	2309	2309	
5°	2315	2310	2231	2131	2066	219
15°	2202	1856	1412	1259	1206	620
25°	1986	1319	1001	906	876	912
35°	1612	974	752	688	667	1002
45°	1085	702	560	529	526	840
55°	661	481	404	399	401	596
65°	370	296	263	269	272	370
75°	163	140	130	134	135	176
85°	26	23	23	23	23	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2309.0	2309.0	2309.0	2309.0	2309.0
2.5°	2325.9	2317.4	2295.7	2316.2	2305.4
5°	2315.0	2310.2	2230.7	2130.7	2065.7
7.5°	2295.7	2278.9	2004.3	1815.2	1751.3
10°	2268.0	2183.7	1761.0	1585.1	1522.5
12.5°	2239.1	2040.4	1564.6	1399.6	1343.0
15°	2201.8	1856.1	1411.7	1258.7	1205.7
17.5°	2158.4	1695.9	1290.0	1143.1	1100.9
20°	2107.8	1557.4	1175.6	1046.7	1011.8
22.5°	2052.4	1440.6	1080.4	975.6	943.1
25°	1986.2	1318.9	1000.9	905.8	875.7
27.5°	1912.7	1226.2	934.7	845.5	820.3
30°	1826.0	1135.8	867.2	787.7	767.3
32.5°	1727.2	1051.5	807.0	737.1	713.1
35°	1611.6	974.4	751.6	687.8	667.3
37.5°	1488.7	898.5	698.6	643.2	626.3
40°	1351.4	832.3	649.2	599.8	591.4
42.5°	1210.5	766.1	604.7	562.5	555.3
45°	1085.2	702.2	560.1	528.8	526.4
47.5°	963.6	644.4	519.1	495.0	492.6
50°	856.4	584.2	478.2	462.5	461.3
52.5°	754.0	531.2	439.6	431.2	433.6
55°	661.3	480.6	403.5	398.7	401.1
57.5°	575.7	433.6	367.4	368.6	372.2
60°	499.9	385.4	331.2	336.1	340.9
62.5°	433.6	340.9	296.3	303.5	308.3
65°	369.8	296.3	262.6	268.6	272.2
67.5°	313.2	254.1	228.9	236.1	237.3
70°	257.8	215.6	195.1	202.4	202.4
72.5°	209.6	175.9	162.6	166.2	167.4
75°	162.6	139.7	130.1	133.7	134.9
77.5°	122.9	106.0	98.8	102.4	101.2
80°	85.5	74.7	71.1	69.9	68.7
82.5°	53.0	47.0	43.4	44.6	43.4
85°	26.5	22.9	22.9	22.9	22.9
87.5°	8.4	8.4	8.4	8.4	8.4
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	21.62	23.12	21.99	23.44	23.75	20.12	21.62	20.49	21.94	22.25
	3H	23.21	24.56	23.59	24.89	25.25	21.84	23.18	22.21	23.51	23.87
	4H	23.74	25.00	24.14	25.35	25.73	22.42	23.68	22.82	24.03	24.41
	6H	24.06	25.23	24.47	25.60	25.99	22.76	23.93	23.18	24.30	24.69
	8H	24.14	25.25	24.56	25.64	26.04	22.84	23.95	23.27	24.34	24.74
	12H	24.16	25.23	24.59	25.61	26.04	22.87	23.93	23.30	24.31	24.74
4H	2H	21.93	23.20	22.33	23.55	23.92	20.68	21.95	21.08	22.30	22.67
	3H	23.72	24.76	24.13	25.16	25.57	22.60	23.65	23.01	24.05	24.45
	4H	24.34	25.29	24.78	25.70	26.14	23.30	24.24	23.73	24.65	25.09
	6H	24.78	25.60	25.24	26.04	26.50	23.75	24.57	24.21	25.01	25.47
	8H	24.89	25.65	25.35	26.10	26.56	23.85	24.62	24.32	25.06	25.53
	12H	24.94	25.62	25.42	26.10	26.57	23.91	24.59	24.39	25.07	25.54
8H	4H	24.49	25.26	24.96	25.70	26.17	23.54	24.30	24.00	24.75	25.21
	6H	25.00	25.63	25.50	26.12	26.60	24.07	24.71	24.57	25.20	25.67
	8H	25.15	25.71	25.66	26.22	26.71	24.23	24.79	24.74	25.30	25.79
	12H	25.24	25.74	25.75	26.23	26.79	24.32	24.82	24.83	25.31	25.88
12H	4H	24.49	25.18	24.98	25.65	26.13	23.55	24.23	24.03	24.71	25.18
	6H	25.00	25.57	25.52	26.08	26.57	24.10	24.66	24.61	25.17	25.66
	8H	25.19	25.69	25.70	26.18	26.74	24.29	24.79	24.80	25.28	25.84