

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: P1217309

Luminaire Tested: S122DRP-S1005D950-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217309
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-S1005D950-X4F0-XX-UDD-G-W
Description: DEFINE 2, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

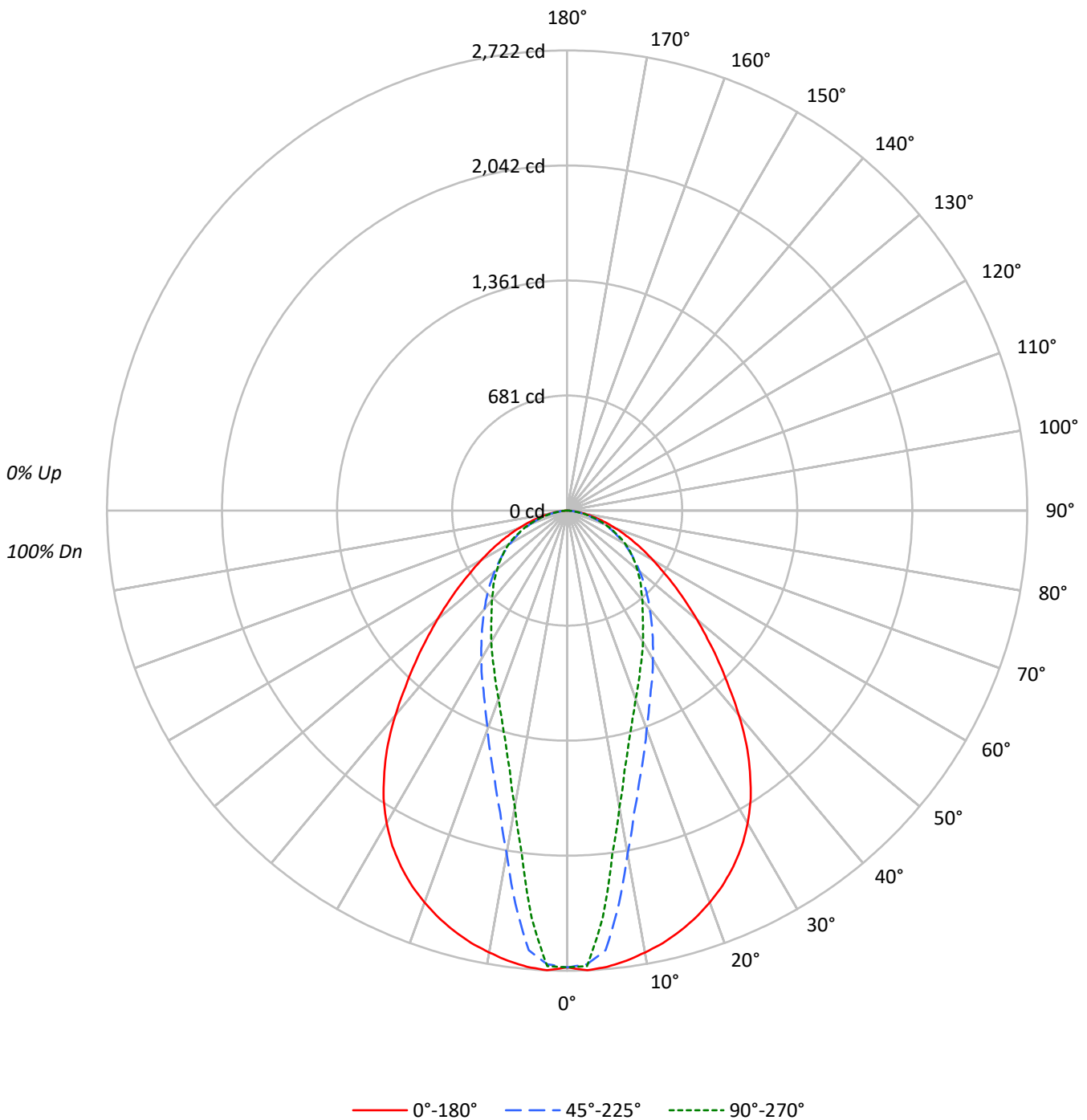
Lumens per Lamp: N/A
Luminaire Lumens: 3630.7 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 0.5 / 0.8
Luminous Opening: Rectangular (W 0.15' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (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	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					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°	51188	51188	51188
5°	51518	49641	45969
10°	51056	39640	34273
15°	50534	32399	27672
20°	49727	27735	23870
25°	48584	24483	21419
30°	46742	22201	19641
35°	43616	20342	18059
40°	39109	18789	17115
45°	34025	17560	16502
50°	29536	16491	15910
55°	25559	15594	15501
60°	22163	14687	15115
65°	19398	13772	14278
70°	16707	12646	13117
75°	13930	11141	11558
80°	10921	9078	8761
85°	6739	5826	5826

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 34025 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.6	6.4
10°-20°	512.9	14.1
20°-30°	629.3	17.3
30°-40°	650.4	17.9
40°-50°	587.4	16.2
50°-60°	476.0	13.1
60°-70°	333.7	9.2
70°-80°	172.1	4.7
80°-90°	36.3	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°	1374.9	37.9
0°-40°	2025.2	55.8
0°-60°	3088.6	85.1
0°-90°	3630.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2702	2702	2702	2702	2702	
5°	2709	2703	2610	2493	2417	257
15°	2576	2172	1652	1473	1411	726
25°	2324	1543	1171	1060	1025	1068
35°	1886	1140	880	805	781	1172
45°	1270	822	655	619	616	982
55°	774	562	472	466	469	697
65°	433	347	307	314	318	432
75°	190	164	152	156	158	206
85°	31	27	27	27	27	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2701.8	2701.8	2701.8	2701.8	2701.8
2.5°	2721.5	2711.7	2686.3	2710.3	2697.6
5°	2708.9	2703.2	2610.2	2493.2	2417.1
7.5°	2686.3	2666.6	2345.2	2124.0	2049.3
10°	2653.9	2555.2	2060.5	1854.8	1781.5
12.5°	2620.1	2387.5	1830.8	1637.7	1571.5
15°	2576.4	2171.9	1651.8	1472.8	1410.8
17.5°	2525.6	1984.4	1509.5	1337.5	1288.2
20°	2466.4	1822.3	1375.6	1224.8	1183.9
22.5°	2401.6	1685.6	1264.2	1141.6	1103.6
25°	2324.1	1543.3	1171.2	1059.9	1024.6
27.5°	2238.1	1434.8	1093.7	989.4	959.8
30°	2136.6	1329.1	1014.8	921.7	897.8
32.5°	2021.1	1230.4	944.3	862.5	834.4
35°	1885.8	1140.2	879.5	804.8	780.8
37.5°	1742.0	1051.4	817.4	752.6	732.9
40°	1581.3	973.9	759.7	701.9	692.0
42.5°	1416.4	896.4	707.5	658.2	649.7
45°	1269.9	821.7	655.4	618.7	615.9
47.5°	1127.5	754.0	607.4	579.3	576.4
50°	1002.1	683.6	559.5	541.2	539.8
52.5°	882.3	621.5	514.4	504.6	507.4
55°	773.8	562.3	472.1	466.5	469.3
57.5°	673.7	507.4	429.9	431.3	435.5
60°	584.9	451.0	387.6	393.2	398.9
62.5°	507.4	398.9	346.7	355.2	360.8
65°	432.7	346.7	307.2	314.3	318.5
67.5°	366.4	297.4	267.8	276.2	277.7
70°	301.6	252.3	228.3	236.8	236.8
72.5°	245.2	205.8	190.3	194.5	195.9
75°	190.3	163.5	152.2	156.4	157.9
77.5°	143.8	124.0	115.6	119.8	118.4
80°	100.1	87.4	83.2	81.7	80.3
82.5°	62.0	55.0	50.7	52.1	50.7
85°	31.0	26.8	26.8	26.8	26.8
87.5°	9.9	9.9	9.9	9.9	9.9
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	22.17	23.67	22.54	23.98	24.30	20.67	22.17	21.03	22.48	22.80
	3H	23.76	25.10	24.14	25.43	25.79	22.38	23.73	22.76	24.06	24.42
	4H	24.28	25.54	24.68	25.89	26.27	22.96	24.22	23.36	24.57	24.95
	6H	24.61	25.77	25.02	26.14	26.53	23.31	24.48	23.72	24.84	25.24
	8H	24.68	25.79	25.11	26.18	26.58	23.39	24.50	23.81	24.89	25.29
	12H	24.71	25.77	25.14	26.15	26.58	23.42	24.48	23.85	24.86	25.29
4H	2H	22.48	23.74	22.88	24.09	24.47	21.23	22.49	21.63	22.84	23.22
	3H	24.26	25.31	24.67	25.71	26.11	23.15	24.19	23.56	24.59	25.00
	4H	24.89	25.83	25.32	26.25	26.69	23.84	24.78	24.27	25.20	25.64
	6H	25.33	26.15	25.78	26.59	27.05	24.29	25.11	24.75	25.56	26.02
	8H	25.43	26.20	25.90	26.64	27.11	24.40	25.16	24.86	25.61	26.07
	12H	25.48	26.17	25.97	26.64	27.12	24.45	25.13	24.93	25.61	26.08
8H	4H	25.04	25.81	25.50	26.25	26.72	24.08	24.85	24.55	25.29	25.76
	6H	25.55	26.18	26.04	26.67	27.15	24.62	25.25	25.12	25.74	26.22
	8H	25.69	26.26	26.21	26.77	27.26	24.77	25.33	25.28	25.84	26.33
	12H	25.78	26.28	26.29	26.77	27.34	24.86	25.36	25.38	25.86	26.42
12H	4H	25.04	25.72	25.52	26.20	26.67	24.09	24.78	24.58	25.26	25.73
	6H	25.55	26.12	26.06	26.63	27.11	24.64	25.21	25.15	25.72	26.21
	8H	25.73	26.23	26.24	26.72	27.29	24.83	25.33	25.34	25.82	26.39