

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: P1217439

Luminaire Tested: S125DRP-H1005D850-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

Test Information

Test Method: LM-79-2024
Report Number: P1217439
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2511-596-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-H1005D850-X4F0-XX-UDD-G-W
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

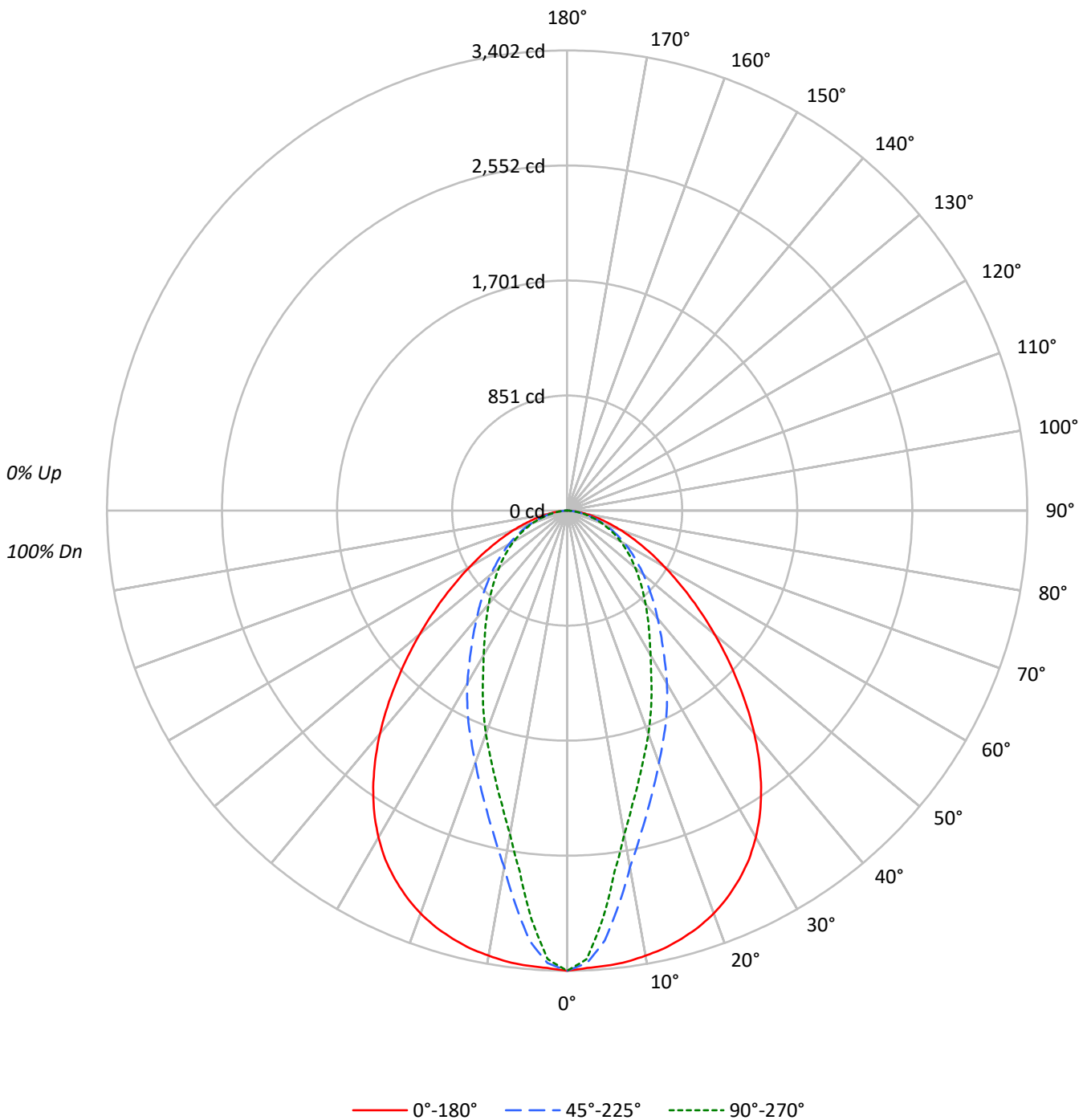
Lumens per Lamp: N/A
Luminaire Lumens: 4846.1 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.6 / 0.87
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 36.6
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	110	106	102	99	108	104	100	97	100	97	94	96	94	92	92	90	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	62	49	42	37	60	49	41	36	48	41	36	47	40	36	46	40	36	34
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24053	24053	24053
5°	23967	22641	21502
10°	23987	19223	17446
15°	23978	16806	15028
20°	23850	14919	13208
25°	23477	13464	11508
30°	22775	12043	10059
35°	21579	10635	9088
40°	19869	9589	8324
45°	17802	8769	7709
50°	15642	8104	7214
55°	13594	7527	6816
60°	11739	7004	6454
65°	10110	6515	6072
70°	8663	5957	5603
75°	7233	5192	4979
80°	5708	4250	4124
85°	3666	2904	2904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17802 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.0	6.0
10°-20°	689.7	14.2
20°-30°	876.2	18.1
30°-40°	892.4	18.4
40°-50°	789.4	16.3
50°-60°	618.6	12.8
60°-70°	421.9	8.7
70°-80°	217.3	4.5
80°-90°	48.6	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°	1857.9	38.3
0°-40°	2750.3	56.8
0°-60°	4158.3	85.8
0°-90°	4846.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4846.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3402	3402	3402	3402	3402	
5°	3377	3360	3190	3066	3030	321
15°	3276	2771	2296	2092	2053	924
25°	3010	2137	1726	1520	1475	1383
35°	2500	1617	1232	1076	1053	1556
45°	1781	1145	877	782	771	1374
55°	1103	765	611	555	553	992
65°	604	466	390	360	363	605
75°	265	223	190	178	182	285
85°	45	42	36	33	36	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3402.4	3402.4	3402.4	3402.4	3402.4
2.5°	3385.2	3411.7	3347.8	3330.7	3318.2
5°	3377.4	3360.3	3190.5	3065.9	3030.0
7.5°	3365.0	3269.9	2935.0	2723.1	2690.4
10°	3341.6	3128.2	2677.9	2470.8	2430.3
12.5°	3315.1	2958.4	2475.4	2265.1	2226.2
15°	3276.2	2771.4	2296.3	2092.2	2053.3
17.5°	3229.4	2593.8	2134.3	1933.3	1895.9
20°	3170.2	2431.8	1983.1	1793.1	1755.7
22.5°	3097.0	2279.1	1849.2	1654.4	1613.9
25°	3009.8	2137.4	1726.1	1520.5	1475.3
27.5°	2910.1	2001.8	1599.9	1386.5	1342.9
30°	2790.1	1869.4	1475.3	1268.1	1232.3
32.5°	2654.6	1741.7	1347.5	1165.3	1135.7
35°	2500.4	1617.1	1232.3	1076.5	1053.1
37.5°	2332.1	1494.0	1132.6	993.9	973.7
40°	2153.0	1374.0	1039.1	917.6	902.0
42.5°	1967.6	1258.7	958.1	849.0	835.0
45°	1780.6	1145.0	877.1	782.0	771.1
47.5°	1598.4	1040.6	805.4	721.3	711.9
50°	1422.3	942.5	736.9	662.1	655.9
52.5°	1257.2	850.6	669.9	607.6	604.4
55°	1103.0	764.9	610.7	554.6	553.0
57.5°	961.2	683.9	551.5	503.2	503.2
60°	830.3	607.6	495.4	453.3	456.5
62.5°	713.5	534.3	442.4	406.6	409.7
65°	604.4	465.8	389.5	359.9	363.0
67.5°	506.3	400.4	338.1	313.1	316.2
70°	419.1	338.1	288.2	266.4	271.1
72.5°	338.1	280.4	238.4	221.2	225.9
75°	264.8	222.8	190.1	177.6	182.3
77.5°	199.4	169.8	146.4	135.5	140.2
80°	140.2	121.5	104.4	96.6	101.3
82.5°	87.2	77.9	68.5	62.3	65.4
85°	45.2	42.1	35.8	32.7	35.8
87.5°	15.6	15.6	14.0	12.5	14.0
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	19.93	21.41	20.29	21.72	22.04	17.31	18.80	17.68	19.11	19.43
	3H	21.51	22.84	21.89	23.17	23.54	18.95	20.29	19.33	20.62	20.98
	4H	22.05	23.30	22.45	23.64	24.02	19.53	20.78	19.93	21.13	21.51
	6H	22.38	23.54	22.80	23.90	24.30	19.90	21.06	20.32	21.42	21.82
	8H	22.46	23.56	22.89	23.95	24.35	20.00	21.10	20.43	21.49	21.89
	12H	22.49	23.54	22.92	23.93	24.36	20.05	21.10	20.48	21.48	21.91
4H	2H	20.17	21.42	20.57	21.76	22.14	18.00	19.25	18.40	19.60	19.98
	3H	21.95	22.99	22.36	23.39	23.79	19.82	20.85	20.23	21.25	21.66
	4H	22.60	23.53	23.03	23.94	24.38	20.48	21.41	20.91	21.83	22.27
	6H	23.05	23.86	23.51	24.30	24.76	20.95	21.76	21.41	22.20	22.66
	8H	23.16	23.92	23.63	24.37	24.83	21.07	21.83	21.54	22.27	22.74
	12H	23.23	23.90	23.71	24.38	24.85	21.14	21.81	21.62	22.29	22.77
8H	4H	22.70	23.46	23.17	23.91	24.37	20.78	21.54	21.24	21.98	22.45
	6H	23.23	23.86	23.73	24.35	24.83	21.33	21.95	21.83	22.44	22.92
	8H	23.39	23.95	23.91	24.46	24.95	21.50	22.06	22.01	22.57	23.06
	12H	23.50	23.99	24.01	24.49	25.05	21.61	22.10	22.12	22.60	23.16
12H	4H	22.70	23.37	23.18	23.85	24.32	20.80	21.48	21.29	21.96	22.43
	6H	23.23	23.79	23.74	24.30	24.79	21.37	21.93	21.88	22.44	22.93
	8H	23.43	23.92	23.94	24.41	24.98	21.58	22.07	22.09	22.57	23.13