

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: P1217450

Luminaire Tested: S125DRP-H290D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217450  
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-H290D930-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

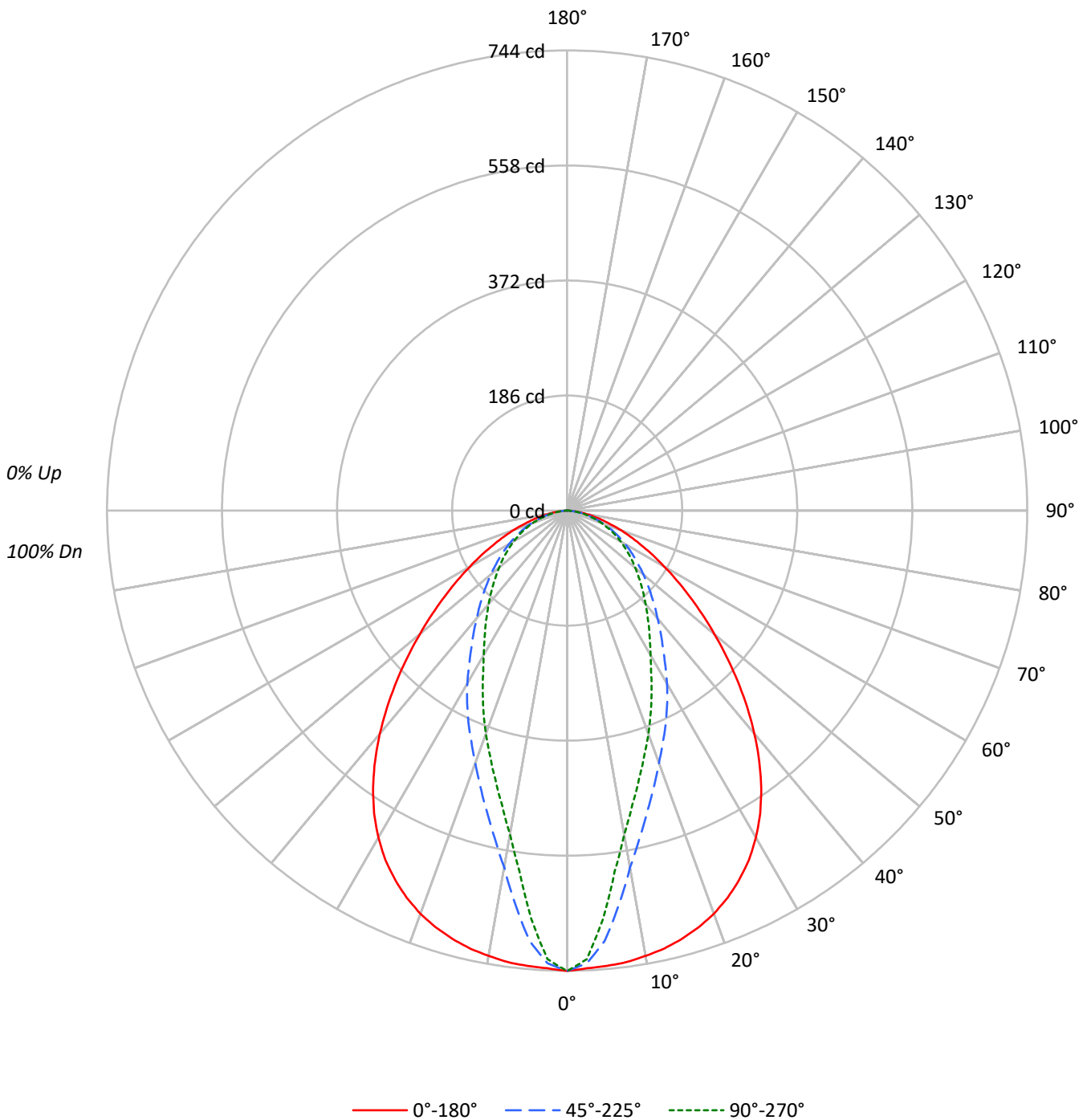
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1060.3 lumens  
Efficiency: N/A  
Efficacy: 90.6 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): 11.7  
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

TEST NUMBER: P1217450

CATALOG NUMBER: S125DRP-H290D930-X4F0-XX-UDD-G-W

### Luminous Intensity Polar Plot





TEST NUMBER: P1217450

CATALOG NUMBER: S125DRP-H290D930-X4F0-XX-UDD-G-W

**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°	5262	5262	5262
5°	5244	4954	4705
10°	5248	4206	3817
15°	5246	3677	3288
20°	5218	3264	2890
25°	5136	2946	2518
30°	4983	2635	2201
35°	4722	2327	1988
40°	4347	2099	1822
45°	3895	1919	1687
50°	3423	1773	1578
55°	2974	1647	1491
60°	2569	1533	1412
65°	2213	1425	1328
70°	1895	1304	1226
75°	1581	1136	1090
80°	1250	928	904
85°	803	633	633

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3895 cd/sqm



TEST NUMBER: P1217450

CATALOG NUMBER: S125DRP-H290D930-X4F0-XX-UDD-G-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.9	6.0
10°-20°	150.9	14.2
20°-30°	191.7	18.1
30°-40°	195.3	18.4
40°-50°	172.7	16.3
50°-60°	135.4	12.8
60°-70°	92.3	8.7
70°-80°	47.6	4.5
80°-90°	10.6	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°	406.5	38.3
0°-40°	601.8	56.8
0°-60°	909.8	85.8
0°-90°	1060.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1060.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	739	735	698	671	663	70
15°	717	606	502	458	449	202
25°	658	468	378	333	323	303
35°	547	354	270	236	230	340
45°	390	250	192	171	169	301
55°	241	167	134	121	121	217
65°	132	102	85	79	79	132
75°	58	49	42	39	40	62
85°	10	9	8	7	8	13
90°	0	0	0	0	0	



TEST NUMBER: P1217450

CATALOG NUMBER: S125DRP-H290D930-X4F0-XX-UDD-G-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	744.4	744.4	744.4	744.4	744.4
2.5°	740.7	746.5	732.5	728.8	726.0
5°	739.0	735.2	698.1	670.8	663.0
7.5°	736.3	715.5	642.2	595.8	588.7
10°	731.1	684.4	585.9	540.6	531.7
12.5°	725.3	647.3	541.6	495.6	487.1
15°	716.8	606.4	502.4	457.8	449.3
17.5°	706.6	567.5	467.0	423.0	414.8
20°	693.6	532.1	433.9	392.3	384.1
22.5°	677.6	498.7	404.6	362.0	353.1
25°	658.5	467.7	377.7	332.7	322.8
27.5°	636.7	438.0	350.1	303.4	293.8
30°	610.5	409.0	322.8	277.5	269.6
32.5°	580.8	381.1	294.8	255.0	248.5
35°	547.1	353.8	269.6	235.5	230.4
37.5°	510.3	326.9	247.8	217.5	213.0
40°	471.1	300.6	227.4	200.8	197.4
42.5°	430.5	275.4	209.6	185.8	182.7
45°	389.6	250.5	191.9	171.1	168.7
47.5°	349.7	227.7	176.2	157.8	155.8
50°	311.2	206.2	161.2	144.9	143.5
52.5°	275.1	186.1	146.6	132.9	132.3
55°	241.3	167.4	133.6	121.3	121.0
57.5°	210.3	149.6	120.7	110.1	110.1
60°	181.7	132.9	108.4	99.2	99.9
62.5°	156.1	116.9	96.8	89.0	89.6
65°	132.3	101.9	85.2	78.7	79.4
67.5°	110.8	87.6	74.0	68.5	69.2
70°	91.7	74.0	63.1	58.3	59.3
72.5°	74.0	61.4	52.2	48.4	49.4
75°	57.9	48.7	41.6	38.9	39.9
77.5°	43.6	37.2	32.0	29.7	30.7
80°	30.7	26.6	22.8	21.1	22.2
82.5°	19.1	17.0	15.0	13.6	14.3
85°	9.9	9.2	7.8	7.2	7.8
87.5°	3.4	3.4	3.1	2.7	3.1
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1217450  
 CATALOG NUMBER: S125DRP-H290D930-X4F0-XX-UDD-G-W

**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	14.64	16.13	15.01	16.44	16.76	12.03	13.52	12.40	13.83	14.15
	3H	16.23	17.56	16.61	17.89	18.26	13.68	15.01	14.05	15.34	15.70
	4H	16.77	18.01	17.17	18.36	18.74	14.25	15.50	14.65	15.85	16.23
	6H	17.10	18.26	17.52	18.62	19.02	14.63	15.78	15.04	16.15	16.54
	8H	17.18	18.28	17.61	18.67	19.07	14.72	15.82	15.15	16.21	16.61
	12H	17.21	18.26	17.64	18.65	19.08	14.77	15.82	15.20	16.20	16.63
4H	2H	14.89	16.13	15.29	16.48	16.86	12.72	13.97	13.12	14.32	14.70
	3H	16.67	17.71	17.08	18.11	18.51	14.54	15.57	14.95	15.97	16.38
	4H	17.32	18.25	17.75	18.66	19.10	15.20	16.13	15.64	16.55	16.99
	6H	17.77	18.58	18.23	19.02	19.48	15.67	16.48	16.13	16.92	17.38
	8H	17.88	18.64	18.35	19.09	19.55	15.79	16.55	16.26	16.99	17.46
	12H	17.95	18.62	18.43	19.10	19.57	15.86	16.54	16.34	17.02	17.49
8H	4H	17.42	18.18	17.89	18.62	19.09	15.50	16.26	15.96	16.70	17.17
	6H	17.95	18.58	18.45	19.07	19.55	16.05	16.67	16.55	17.17	17.64
	8H	18.11	18.67	18.63	19.18	19.67	16.22	16.78	16.73	17.29	17.78
	12H	18.22	18.71	18.73	19.20	19.77	16.33	16.82	16.84	17.32	17.88
12H	4H	17.42	18.09	17.90	18.57	19.04	15.52	16.20	16.01	16.68	17.15
	6H	17.95	18.51	18.46	19.02	19.51	16.09	16.65	16.60	17.16	17.65
	8H	18.15	18.64	18.66	19.13	19.70	16.30	16.79	16.81	17.29	17.85