

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: P1217494

Luminaire Tested: S125DRP-S290D927-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217494  
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-S290D927-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

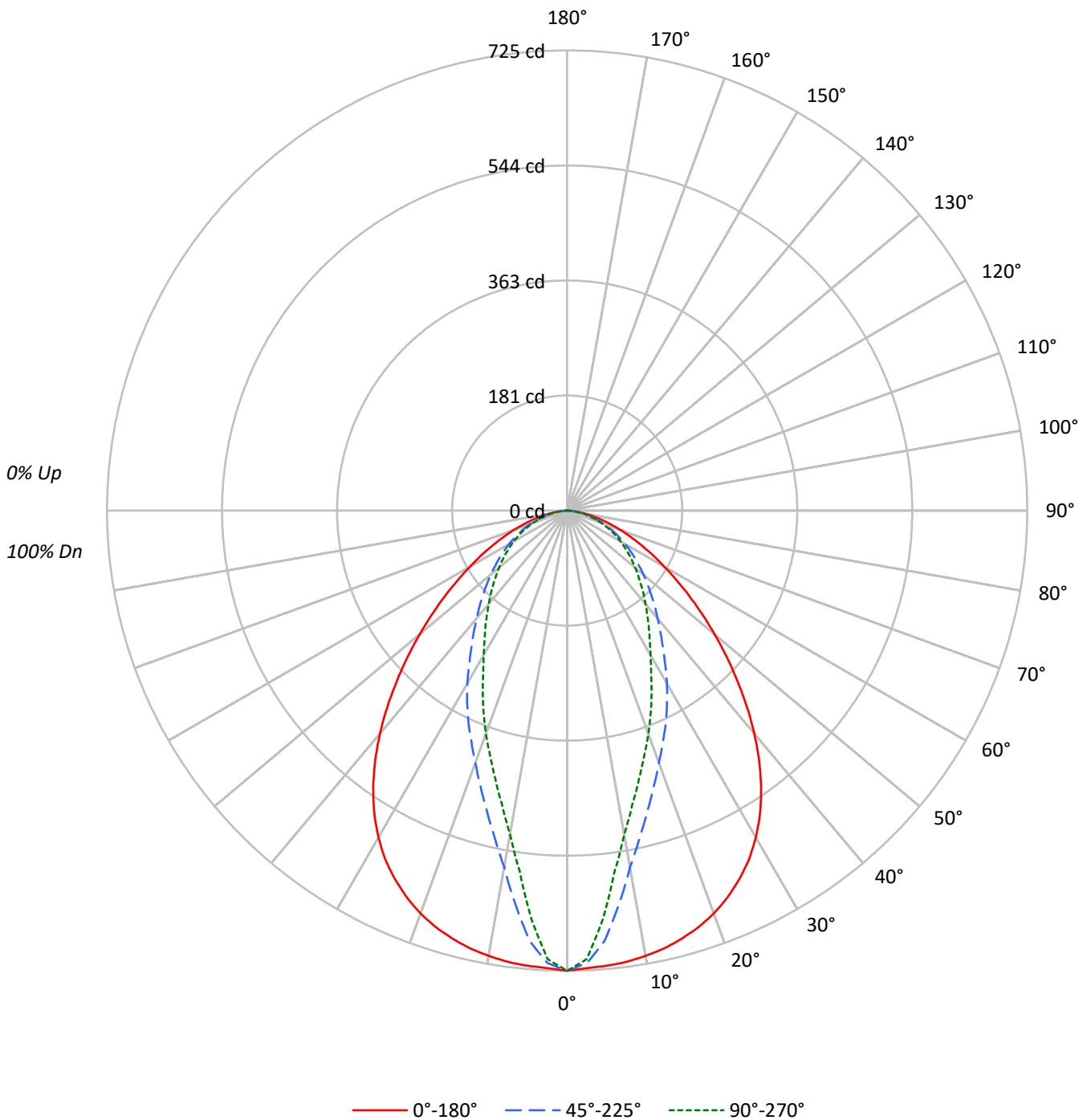
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1032.8 lumens  
Efficiency: N/A  
Efficacy: 82.0 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): 12.6  
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	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°	5126	5126	5126
5°	5108	4825	4583
10°	5112	4097	3718
15°	5110	3582	3203
20°	5083	3179	2815
25°	5003	2870	2452
30°	4854	2566	2144
35°	4599	2266	1937
40°	4234	2043	1774
45°	3794	1869	1643
50°	3333	1727	1538
55°	2898	1603	1453
60°	2503	1493	1376
65°	2154	1388	1295
70°	1846	1269	1195
75°	1540	1106	1060
80°	1217	904	879
85°	779	616	616

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3794 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.2	6.0
10°-20°	147.0	14.2
20°-30°	186.7	18.1
30°-40°	190.2	18.4
40°-50°	168.2	16.3
50°-60°	131.8	12.8
60°-70°	89.9	8.7
70°-80°	46.3	4.5
80°-90°	10.4	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°	395.9	38.3
0°-40°	586.1	56.8
0°-60°	886.2	85.8
0°-90°	1032.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1032.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	720	716	680	653	646	68
15°	698	591	489	446	438	197
25°	641	456	368	324	314	295
35°	533	345	263	229	224	332
45°	380	244	187	167	164	293
55°	235	163	130	118	118	212
65°	129	99	83	77	77	129
75°	56	48	40	38	39	61
85°	10	9	8	7	8	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	725.1	725.1	725.1	725.1	725.1
2.5°	721.5	727.1	713.5	709.8	707.2
5°	719.8	716.1	679.9	653.4	645.8
7.5°	717.1	696.9	625.5	580.3	573.4
10°	712.2	666.7	570.7	526.6	517.9
12.5°	706.5	630.5	527.6	482.7	474.4
15°	698.2	590.6	489.4	445.9	437.6
17.5°	688.2	552.8	454.8	412.0	404.1
20°	675.6	518.3	422.6	382.1	374.2
22.5°	660.0	485.7	394.1	352.6	344.0
25°	641.4	455.5	367.9	324.0	314.4
27.5°	620.2	426.6	341.0	295.5	286.2
30°	594.6	398.4	314.4	270.3	262.6
32.5°	565.7	371.2	287.2	248.3	242.0
35°	532.9	344.6	262.6	229.4	224.4
37.5°	497.0	318.4	241.4	211.8	207.5
40°	458.8	292.8	221.4	195.6	192.2
42.5°	419.3	268.3	204.2	180.9	178.0
45°	379.5	244.0	186.9	166.7	164.3
47.5°	340.6	221.8	171.6	153.7	151.7
50°	303.1	200.9	157.0	141.1	139.8
52.5°	267.9	181.3	142.8	129.5	128.8
55°	235.1	163.0	130.1	118.2	117.9
57.5°	204.8	145.8	117.5	107.2	107.2
60°	177.0	129.5	105.6	96.6	97.3
62.5°	152.1	113.9	94.3	86.7	87.3
65°	128.8	99.3	83.0	76.7	77.4
67.5°	107.9	85.3	72.0	66.7	67.4
70°	89.3	72.0	61.4	56.8	57.8
72.5°	72.0	59.8	50.8	47.1	48.1
75°	56.4	47.5	40.5	37.8	38.8
77.5°	42.5	36.2	31.2	28.9	29.9
80°	29.9	25.9	22.2	20.6	21.6
82.5°	18.6	16.6	14.6	13.3	13.9
85°	9.6	9.0	7.6	7.0	7.6
87.5°	3.3	3.3	3.0	2.7	3.0
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	14.56	16.04	14.92	16.36	16.67	11.94	13.42	12.30	13.74	14.05
	3H	16.14	17.47	16.52	17.80	18.16	13.58	14.92	13.96	15.24	15.61
	4H	16.68	17.92	17.08	18.27	18.65	14.16	15.41	14.56	15.75	16.13
	6H	17.01	18.17	17.42	18.53	18.92	14.53	15.69	14.94	16.05	16.44
	8H	17.09	18.19	17.52	18.58	18.98	14.63	15.73	15.05	16.11	16.52
	12H	17.12	18.17	17.55	18.56	18.98	14.67	15.72	15.10	16.10	16.53
4H	2H	14.80	16.05	15.20	16.40	16.77	12.63	13.87	13.03	14.22	14.60
	3H	16.58	17.62	16.99	18.02	18.42	14.44	15.48	14.86	15.88	16.28
	4H	17.23	18.16	17.66	18.57	19.01	15.11	16.04	15.54	16.46	16.90
	6H	17.68	18.49	18.14	18.93	19.39	15.58	16.38	16.03	16.83	17.29
	8H	17.79	18.55	18.26	18.99	19.46	15.70	16.45	16.16	16.90	17.37
	12H	17.85	18.53	18.34	19.01	19.48	15.77	16.44	16.25	16.92	17.39
8H	4H	17.33	18.09	17.80	18.53	19.00	15.41	16.16	15.87	16.61	17.07
	6H	17.86	18.48	18.36	18.98	19.45	15.96	16.58	16.45	17.07	17.55
	8H	18.02	18.58	18.54	19.09	19.58	16.13	16.68	16.64	17.19	17.68
	12H	18.13	18.62	18.64	19.11	19.68	16.24	16.73	16.75	17.22	17.79
12H	4H	17.32	18.00	17.81	18.48	18.95	15.43	16.10	15.91	16.58	17.06
	6H	17.86	18.42	18.37	18.93	19.41	16.00	16.55	16.51	17.07	17.55
	8H	18.06	18.55	18.57	19.04	19.61	16.21	16.70	16.72	17.19	17.76