

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: P1217522

Luminaire Tested: S125DRP-S865D930-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217522  
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-S865D930-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

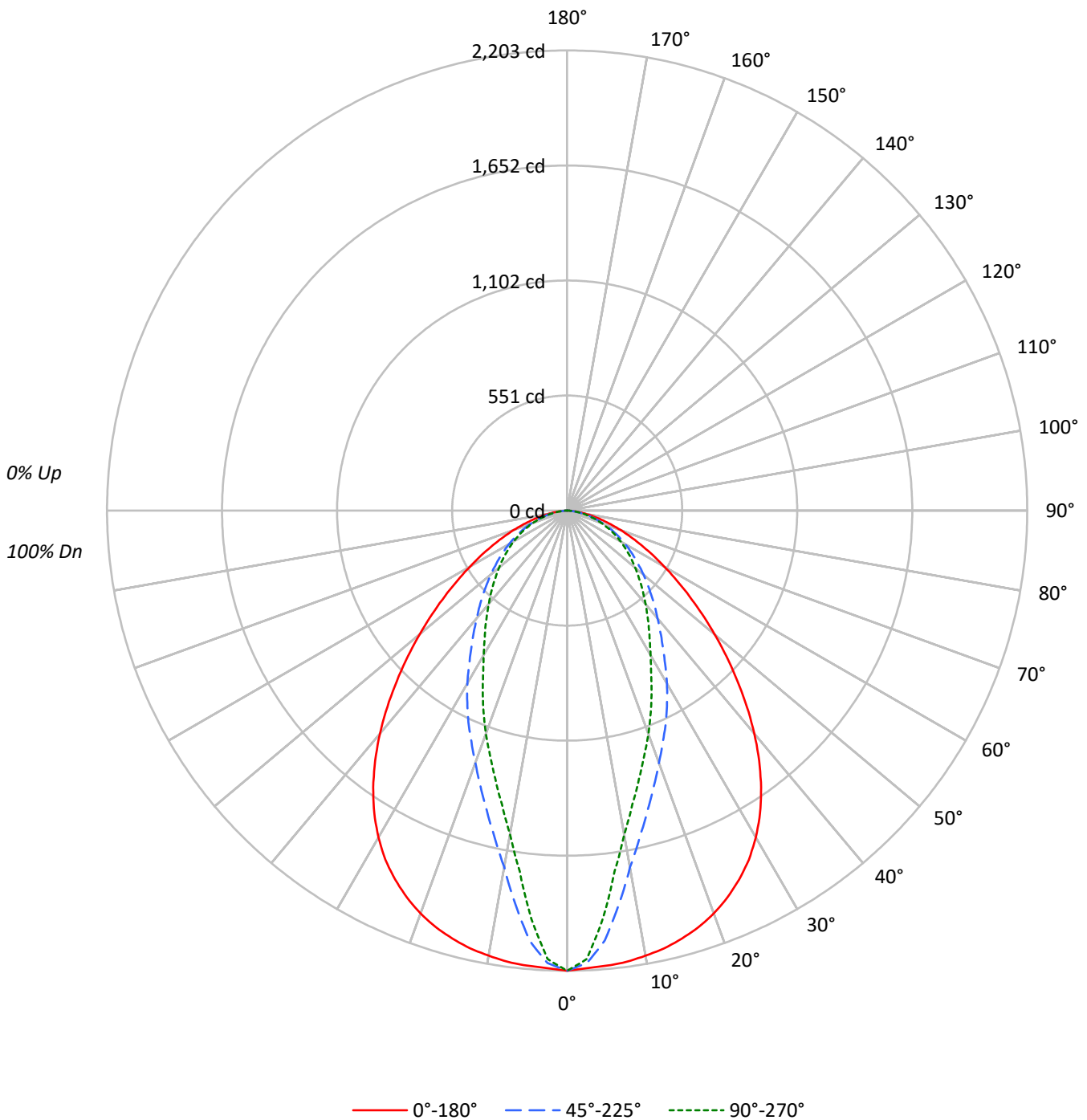
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3138.2 lumens  
Efficiency: N/A  
Efficacy: 90.4 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): 34.7  
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

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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°	15576	15576	15576
5°	15520	14662	13924
10°	15533	12449	11297
15°	15527	10883	9731
20°	15445	9661	8553
25°	15203	8719	7452
30°	14749	7799	6514
35°	13974	6887	5886
40°	12866	6210	5390
45°	11528	5679	4993
50°	10130	5248	4671
55°	8803	4875	4414
60°	7602	4536	4179
65°	6547	4219	3933
70°	5610	3857	3627
75°	4684	3362	3223
80°	3697	2752	2671
85°	2377	1882	1882

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11528 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.1	6.0
10°-20°	446.6	14.2
20°-30°	567.4	18.1
30°-40°	577.9	18.4
40°-50°	511.2	16.3
50°-60°	400.6	12.8
60°-70°	273.2	8.7
70°-80°	140.7	4.5
80°-90°	31.5	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°	1203.1	38.3
0°-40°	1781.0	56.8
0°-60°	2692.8	85.8
0°-90°	3138.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3138.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2203	2203	2203	2203	2203	
5°	2187	2176	2066	1985	1962	208
15°	2122	1795	1487	1355	1330	599
25°	1949	1384	1118	985	955	896
35°	1619	1047	798	697	682	1008
45°	1153	742	568	506	499	889
55°	714	495	396	359	358	643
65°	391	302	252	233	235	392
75°	172	144	123	115	118	185
85°	29	27	23	21	23	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2203.3	2203.3	2203.3	2203.3	2203.3
2.5°	2192.2	2209.3	2168.0	2156.9	2148.8
5°	2187.1	2176.0	2066.1	1985.4	1962.2
7.5°	2179.1	2117.5	1900.6	1763.4	1742.2
10°	2163.9	2025.7	1734.2	1600.0	1573.8
12.5°	2146.8	1915.8	1603.0	1466.8	1441.6
15°	2121.6	1794.7	1487.0	1354.9	1329.6
17.5°	2091.3	1679.7	1382.1	1252.0	1227.7
20°	2053.0	1574.8	1284.2	1161.2	1136.9
22.5°	2005.5	1475.9	1197.5	1071.4	1045.1
25°	1949.1	1384.1	1117.8	984.6	955.4
27.5°	1884.5	1296.3	1036.1	897.9	869.6
30°	1806.8	1210.6	955.4	821.2	798.0
32.5°	1719.0	1127.9	872.6	754.6	735.4
35°	1619.2	1047.2	798.0	697.1	682.0
37.5°	1510.2	967.5	733.4	643.6	630.5
40°	1394.2	889.8	672.9	594.2	584.1
42.5°	1274.1	815.1	620.4	549.8	540.7
45°	1153.1	741.5	568.0	506.4	499.4
47.5°	1035.1	673.9	521.6	467.1	461.0
50°	921.1	610.3	477.2	428.8	424.7
52.5°	814.1	550.8	433.8	393.4	391.4
55°	714.2	495.3	395.5	359.1	358.1
57.5°	622.4	442.9	357.1	325.9	325.9
60°	537.7	393.4	320.8	293.6	295.6
62.5°	462.0	346.0	286.5	263.3	265.3
65°	391.4	301.6	252.2	233.0	235.1
67.5°	327.9	259.3	218.9	202.8	204.8
70°	271.4	218.9	186.6	172.5	175.5
72.5°	218.9	181.6	154.4	143.3	146.3
75°	171.5	144.3	123.1	115.0	118.0
77.5°	129.1	110.0	94.8	87.8	90.8
80°	90.8	78.7	67.6	62.5	65.6
82.5°	56.5	50.4	44.4	40.4	42.4
85°	29.3	27.2	23.2	21.2	23.2
87.5°	10.1	10.1	9.1	8.1	9.1
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	18.42	19.90	18.78	20.22	20.53	15.80	17.29	16.17	17.60	17.92
	3H	20.00	21.34	20.38	21.66	22.03	17.45	18.78	17.82	19.11	19.47
	4H	20.54	21.79	20.94	22.13	22.51	18.02	19.27	18.42	19.62	20.00
	6H	20.87	22.03	21.29	22.39	22.79	18.40	19.55	18.81	19.92	20.31
	8H	20.95	22.05	21.38	22.44	22.84	18.49	19.59	18.92	19.98	20.38
	12H	20.98	22.03	21.42	22.42	22.85	18.54	19.59	18.97	19.97	20.40
4H	2H	18.66	19.91	19.06	20.26	20.63	16.49	17.74	16.89	18.09	18.47
	3H	20.44	21.48	20.85	21.88	22.28	18.31	19.34	18.72	19.74	20.15
	4H	21.09	22.02	21.52	22.44	22.87	18.97	19.90	19.41	20.32	20.76
	6H	21.54	22.35	22.00	22.79	23.25	19.44	20.25	19.90	20.69	21.15
	8H	21.65	22.41	22.12	22.86	23.32	19.56	20.32	20.03	20.76	21.23
	12H	21.72	22.39	22.20	22.87	23.34	19.63	20.31	20.11	20.78	21.26
8H	4H	21.20	21.95	21.66	22.40	22.86	19.27	20.03	19.73	20.47	20.94
	6H	21.72	22.35	22.22	22.84	23.32	19.82	20.44	20.32	20.93	21.41
	8H	21.88	22.44	22.40	22.95	23.44	19.99	20.55	20.50	21.06	21.55
	12H	21.99	22.48	22.50	22.98	23.54	20.10	20.59	20.61	21.09	21.65
12H	4H	21.19	21.86	21.67	22.34	22.81	19.29	19.97	19.78	20.45	20.92
	6H	21.72	22.28	22.23	22.79	23.28	19.86	20.42	20.37	20.93	21.42
	8H	21.92	22.41	22.43	22.90	23.47	20.07	20.56	20.58	21.06	21.62