

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: P1217481

Luminaire Tested: S125DRP-S1005D830-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217481  
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-S1005D830-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

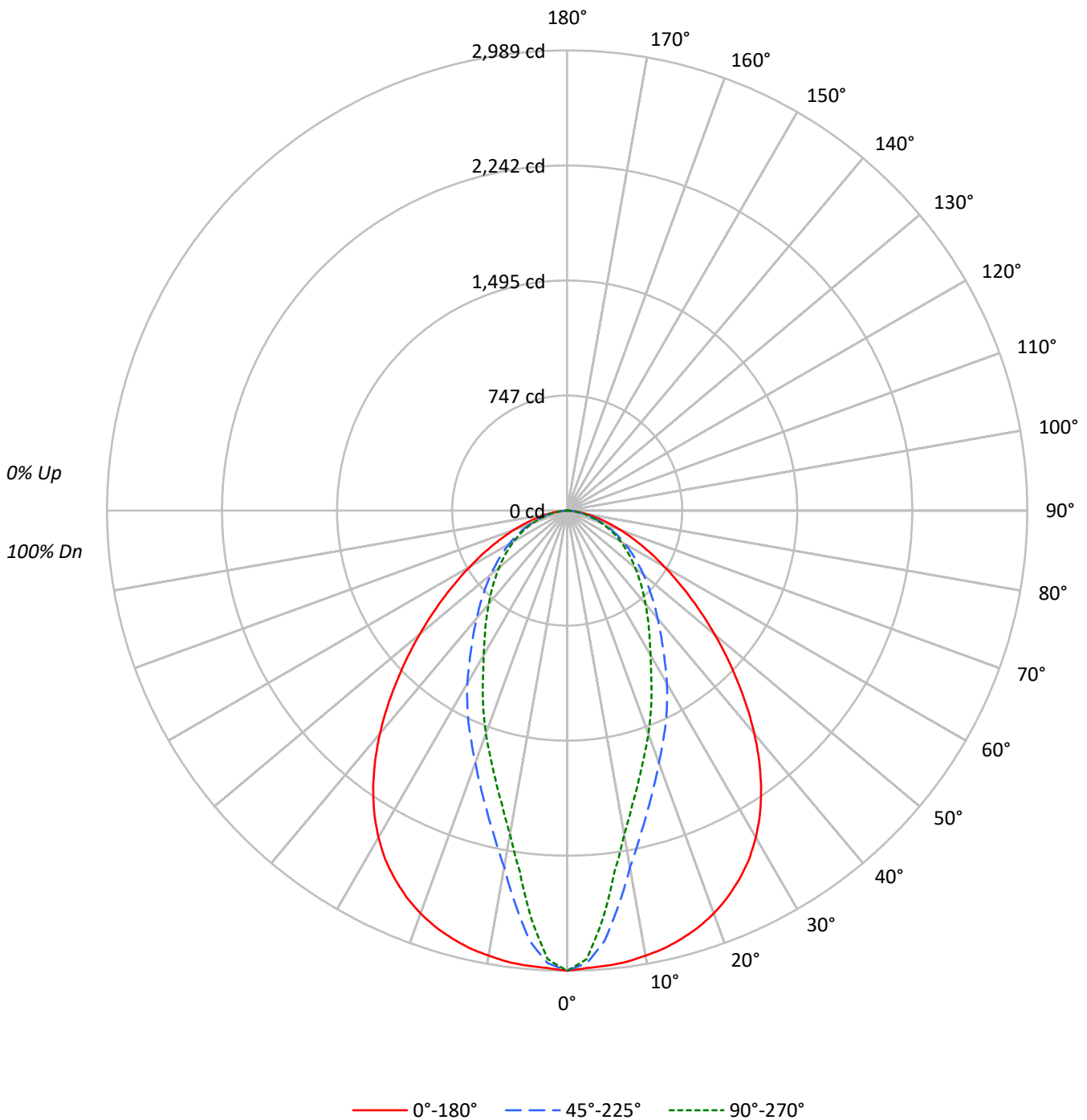
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4257.8 lumens  
Efficiency: N/A  
Efficacy: 101.6 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): 41.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	21132	21132	21132
5°	21058	19892	18892
10°	21075	16890	15327
15°	21067	14766	13203
20°	20955	13108	11605
25°	20627	11830	10111
30°	20011	10581	8838
35°	18959	9344	7985
40°	17456	8425	7313
45°	15641	7704	6773
50°	13744	7120	6337
55°	11944	6612	5989
60°	10314	6155	5670
65°	8884	5724	5334
70°	7610	5233	4923
75°	6356	4561	4373
80°	5016	3733	3623
85°	3220	2555	2555

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15641 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.6	6.0
10°-20°	605.9	14.2
20°-30°	769.8	18.1
30°-40°	784.1	18.4
40°-50°	693.5	16.3
50°-60°	543.5	12.8
60°-70°	370.7	8.7
70°-80°	190.9	4.5
80°-90°	42.7	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°	1632.3	38.3
0°-40°	2416.4	56.8
0°-60°	3653.5	85.8
0°-90°	4257.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4257.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2989	2989	2989	2989	2989	
5°	2967	2952	2803	2694	2662	282
15°	2878	2435	2018	1838	1804	812
25°	2644	1878	1517	1336	1296	1215
35°	2197	1421	1083	946	925	1367
45°	1564	1006	771	687	678	1207
55°	969	672	536	487	486	872
65°	531	409	342	316	319	532
75°	233	196	167	156	160	250
85°	40	37	32	29	32	52
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2989.3	2989.3	2989.3	2989.3	2989.3
2.5°	2974.3	2997.5	2941.4	2926.4	2915.4
5°	2967.4	2952.4	2803.2	2693.7	2662.2
7.5°	2956.5	2873.0	2578.7	2392.6	2363.8
10°	2935.9	2748.4	2352.9	2170.8	2135.2
12.5°	2912.7	2599.2	2174.9	1990.1	1955.9
15°	2878.5	2435.0	2017.5	1838.2	1804.0
17.5°	2837.4	2279.0	1875.2	1698.6	1665.8
20°	2785.4	2136.6	1742.4	1575.4	1542.6
22.5°	2721.1	2002.5	1624.7	1453.6	1418.0
25°	2644.4	1877.9	1516.6	1335.9	1296.2
27.5°	2556.8	1758.8	1405.7	1218.2	1179.9
30°	2451.4	1642.5	1296.2	1114.2	1082.7
32.5°	2332.3	1530.3	1184.0	1023.8	997.8
35°	2196.8	1420.8	1082.7	945.8	925.3
37.5°	2049.0	1312.6	995.1	873.3	855.5
40°	1891.6	1207.2	912.9	806.2	792.5
42.5°	1728.7	1105.9	841.8	746.0	733.6
45°	1564.5	1006.0	770.6	687.1	677.5
47.5°	1404.3	914.3	707.6	633.7	625.5
50°	1249.7	828.1	647.4	581.7	576.2
52.5°	1104.6	747.3	588.6	533.8	531.1
55°	969.1	672.1	536.5	487.3	485.9
57.5°	844.5	600.9	484.5	442.1	442.1
60°	729.5	533.8	435.3	398.3	401.0
62.5°	626.9	469.5	388.7	357.2	360.0
65°	531.1	409.3	342.2	316.2	318.9
67.5°	444.8	351.8	297.0	275.1	277.9
70°	368.2	297.0	253.2	234.1	238.2
72.5°	297.0	246.4	209.4	194.4	198.5
75°	232.7	195.7	167.0	156.0	160.1
77.5°	175.2	149.2	128.7	119.1	123.2
80°	123.2	106.8	91.7	84.9	89.0
82.5°	76.6	68.4	60.2	54.7	57.5
85°	39.7	37.0	31.5	28.7	31.5
87.5°	13.7	13.7	12.3	10.9	12.3
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	19.48	20.96	19.84	21.28	21.59	16.86	18.35	17.23	18.66	18.98
	3H	21.06	22.40	21.44	22.72	23.09	18.51	19.84	18.88	20.17	20.53
	4H	21.60	22.85	22.00	23.19	23.57	19.08	20.33	19.48	20.68	21.06
	6H	21.93	23.09	22.35	23.45	23.85	19.45	20.61	19.87	20.98	21.37
	8H	22.01	23.11	22.44	23.50	23.90	19.55	20.65	19.98	21.04	21.44
	12H	22.04	23.09	22.48	23.48	23.91	19.60	20.65	20.03	21.03	21.46
4H	2H	19.72	20.97	20.12	21.32	21.69	17.55	18.80	17.95	19.15	19.53
	3H	21.50	22.54	21.91	22.94	23.34	19.37	20.40	19.78	20.80	21.21
	4H	22.15	23.08	22.58	23.50	23.93	20.03	20.96	20.46	21.38	21.82
	6H	22.60	23.41	23.06	23.85	24.31	20.50	21.31	20.96	21.75	22.21
	8H	22.71	23.47	23.18	23.92	24.38	20.62	21.38	21.09	21.82	22.29
	12H	22.78	23.45	23.26	23.93	24.40	20.69	21.37	21.17	21.84	22.32
8H	4H	22.25	23.01	22.72	23.46	23.92	20.33	21.09	20.79	21.53	22.00
	6H	22.78	23.41	23.28	23.90	24.38	20.88	21.50	21.38	21.99	22.47
	8H	22.94	23.50	23.46	24.01	24.50	21.05	21.61	21.56	22.12	22.61
	12H	23.05	23.54	23.56	24.04	24.60	21.16	21.65	21.67	22.15	22.71
12H	4H	22.25	22.92	22.73	23.40	23.87	20.35	21.03	20.84	21.51	21.98
	6H	22.78	23.34	23.29	23.85	24.34	20.92	21.48	21.43	21.99	22.48
	8H	22.98	23.47	23.49	23.96	24.53	21.13	21.62	21.64	22.12	22.68