

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: P1217482

Luminaire Tested: S125DRP-S1005D835-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217482  
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-S1005D835-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

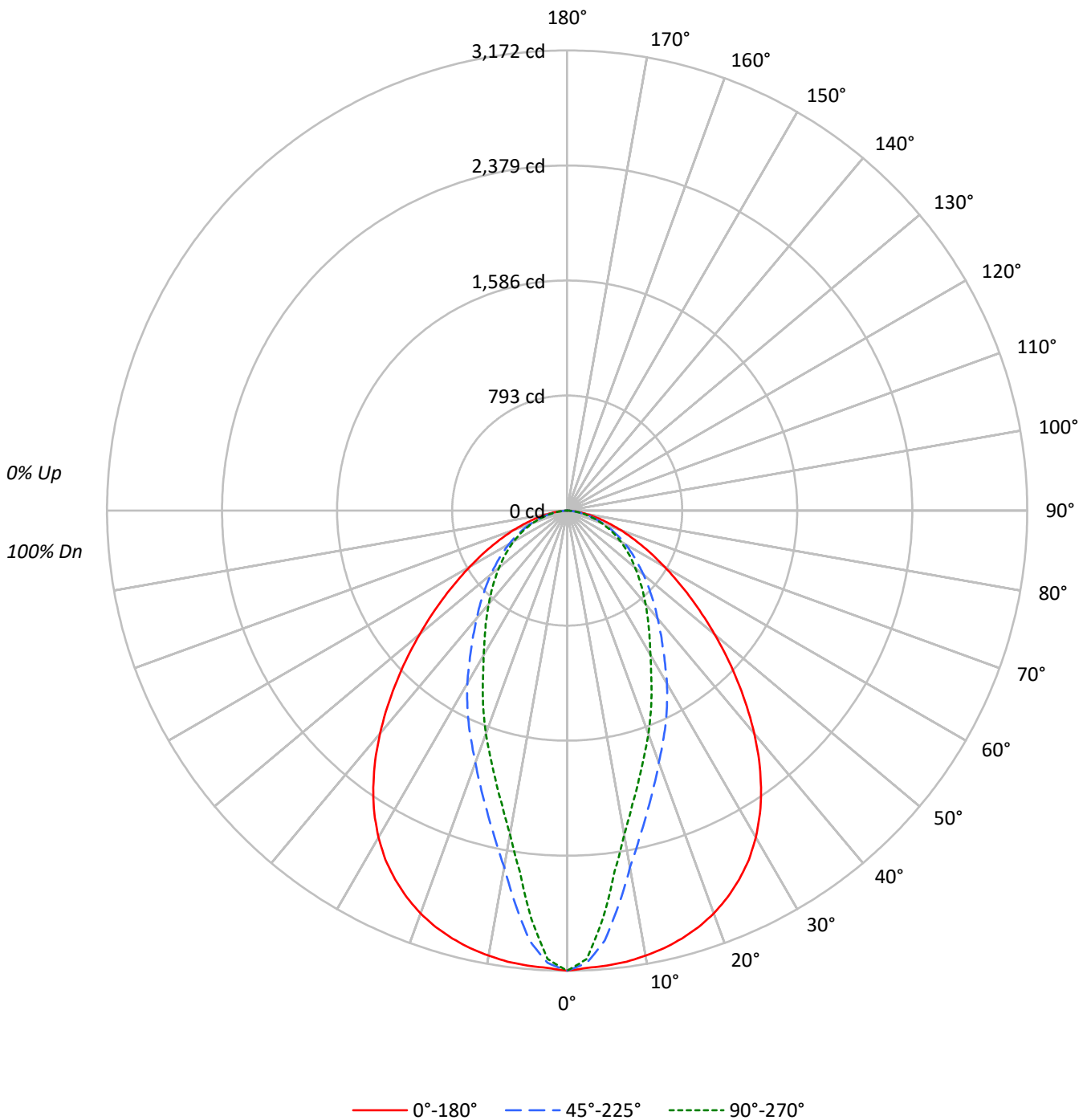
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4517.3 lumens  
Efficiency: N/A  
Efficacy: 107.8 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°	22421	22421	22421
5°	22341	21105	20044
10°	22360	17919	16262
15°	22351	15666	14008
20°	22232	13907	12312
25°	21884	12550	10727
30°	21231	11226	9377
35°	20114	9913	8472
40°	18520	8939	7759
45°	16594	8174	7186
50°	14581	7554	6724
55°	12671	7017	6354
60°	10943	6529	6016
65°	9424	6072	5661
70°	8073	5554	5223
75°	6744	4840	4641
80°	5321	3961	3843
85°	3415	2709	2709

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16594 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.2	6.0
10°-20°	642.9	14.2
20°-30°	816.7	18.1
30°-40°	831.9	18.4
40°-50°	735.8	16.3
50°-60°	576.7	12.8
60°-70°	393.3	8.7
70°-80°	202.6	4.5
80°-90°	45.3	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°	1731.8	38.3
0°-40°	2563.7	56.8
0°-60°	3876.2	85.8
0°-90°	4517.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4517.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3172	3172	3172	3172	3172	
5°	3148	3132	2974	2858	2824	300
15°	3054	2583	2140	1950	1914	862
25°	2806	1992	1609	1417	1375	1289
35°	2331	1507	1149	1004	982	1451
45°	1660	1067	818	729	719	1280
55°	1028	713	569	517	516	925
65°	563	434	363	336	338	564
75°	247	208	177	166	170	266
85°	42	39	33	30	33	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3171.6	3171.6	3171.6	3171.6	3171.6
2.5°	3155.6	3180.3	3120.7	3104.8	3093.1
5°	3148.3	3132.3	2974.1	2857.9	2824.5
7.5°	3136.7	3048.1	2735.9	2538.4	2507.9
10°	3114.9	2916.0	2496.3	2303.2	2265.4
12.5°	3090.2	2757.7	2307.5	2111.5	2075.2
15°	3053.9	2583.4	2140.5	1950.3	1914.0
17.5°	3010.4	2417.9	1989.5	1802.2	1767.3
20°	2955.2	2266.9	1848.6	1671.5	1636.6
22.5°	2886.9	2124.5	1723.7	1542.2	1504.5
25°	2805.6	1992.4	1609.0	1417.3	1375.2
27.5°	2712.7	1866.0	1491.4	1292.4	1251.8
30°	2600.9	1742.6	1375.2	1182.1	1148.7
32.5°	2474.5	1623.5	1256.1	1086.2	1058.6
35°	2330.7	1507.4	1148.7	1003.5	981.7
37.5°	2173.9	1392.6	1055.7	926.5	907.6
40°	2006.9	1280.8	968.6	855.3	840.8
42.5°	1834.1	1173.4	893.1	791.4	778.4
45°	1659.8	1067.4	817.6	729.0	718.8
47.5°	1489.9	970.1	750.8	672.4	663.6
50°	1325.8	878.6	686.9	617.2	611.4
52.5°	1171.9	792.9	624.4	566.3	563.4
55°	1028.1	713.0	569.3	517.0	515.5
57.5°	896.0	637.5	514.1	469.1	469.1
60°	774.0	566.3	461.8	422.6	425.5
62.5°	665.1	498.1	412.4	379.0	381.9
65°	563.4	434.2	363.0	335.5	338.4
67.5°	472.0	373.2	315.1	291.9	294.8
70°	390.6	315.1	268.7	248.3	252.7
72.5°	315.1	261.4	222.2	206.2	210.6
75°	246.9	207.7	177.2	165.5	169.9
77.5°	185.9	158.3	136.5	126.3	130.7
80°	130.7	113.3	97.3	90.0	94.4
82.5°	81.3	72.6	63.9	58.1	61.0
85°	42.1	39.2	33.4	30.5	33.4
87.5°	14.5	14.5	13.1	11.6	13.1
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	19.68	21.17	20.05	21.48	21.80	17.07	18.55	17.43	18.87	19.18
	3H	21.27	22.60	21.65	22.93	23.29	18.71	20.04	19.09	20.37	20.73
	4H	21.80	23.05	22.20	23.40	23.78	19.29	20.53	19.69	20.88	21.26
	6H	22.14	23.29	22.55	23.66	24.05	19.66	20.81	20.07	21.18	21.57
	8H	22.22	23.32	22.65	23.71	24.11	19.76	20.85	20.18	21.24	21.65
	12H	22.25	23.30	22.68	23.68	24.11	19.80	20.85	20.23	21.23	21.66
4H	2H	19.92	21.17	20.32	21.52	21.90	17.75	19.00	18.15	19.35	19.73
	3H	21.71	22.74	22.12	23.14	23.54	19.57	20.61	19.98	21.01	21.41
	4H	22.35	23.28	22.79	23.70	24.14	20.24	21.17	20.67	21.59	22.02
	6H	22.81	23.62	23.26	24.06	24.52	20.70	21.51	21.16	21.96	22.42
	8H	22.92	23.68	23.38	24.12	24.59	20.83	21.58	21.29	22.03	22.50
	12H	22.98	23.66	23.46	24.13	24.61	20.90	21.57	21.38	22.05	22.52
8H	4H	22.46	23.22	22.92	23.66	24.13	20.53	21.29	21.00	21.74	22.20
	6H	22.99	23.61	23.49	24.10	24.58	21.09	21.71	21.58	22.20	22.68
	8H	23.15	23.71	23.67	24.22	24.71	21.25	21.81	21.77	22.32	22.81
	12H	23.26	23.75	23.77	24.24	24.81	21.37	21.86	21.88	22.35	22.92
12H	4H	22.45	23.13	22.93	23.60	24.08	20.56	21.23	21.04	21.71	22.18
	6H	22.98	23.54	23.50	24.05	24.54	21.12	21.68	21.64	22.19	22.68
	8H	23.18	23.68	23.69	24.17	24.73	21.34	21.83	21.85	22.32	22.89