

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: P1217436

Luminaire Tested: S125DRP-H1005D830-X4F0-XX-UDD-G-W

Issue Date: 4/9/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1217436  
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-H1005D830-X4F0-XX-UDD-G-W  
Description: DEFINE 5, DIRECT RECESSED WITH GRAZE FLUSH OPTIC  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

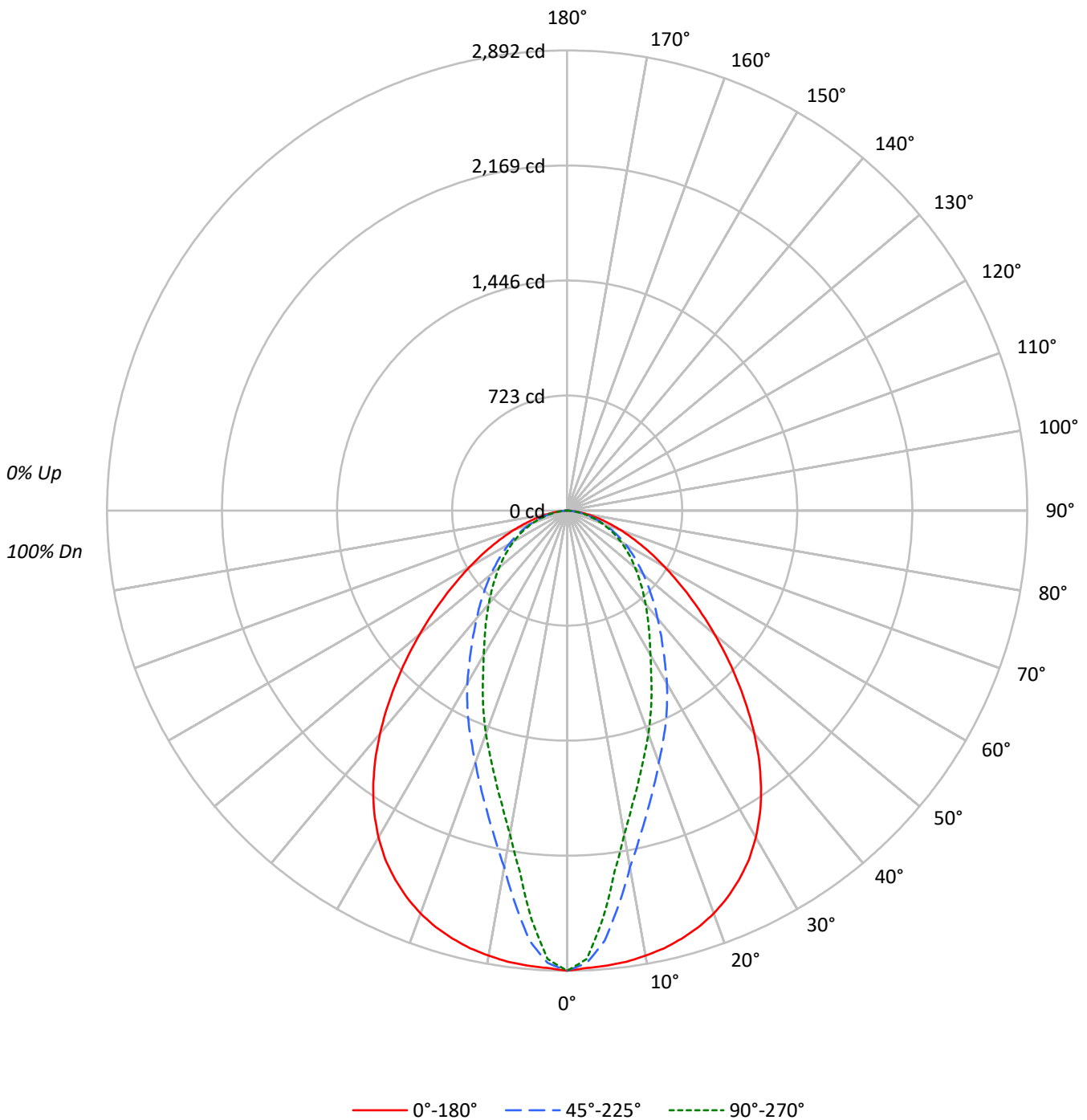
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4118.7 lumens  
Efficiency: N/A  
Efficacy: 112.5 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): 36.6  
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

TEST NUMBER: P1217436

CATALOG NUMBER: S125DRP-H1005D830-X4F0-XX-UDD-G-W

### Luminous Intensity Polar Plot





TEST NUMBER: P1217436

CATALOG NUMBER: S125DRP-H1005D830-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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	92	92	90	89	87				87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75				75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65				65
4	87	76	68	62	85	75	67	62	72	66	61	70	64	60	68	63	59	57				57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51				51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46				46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41				41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37				37
9	62	49	42	37	60	49	41	36	48	41	36	47	40	36	46	40	36	34				34
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32				32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	20442	20442	20442
5°	20370	19242	18274
10°	20387	16338	14827
15°	20378	14283	12772
20°	20270	12680	11226
25°	19953	11443	9781
30°	19357	10236	8549
35°	18340	9038	7724
40°	16886	8150	7074
45°	15130	7452	6552
50°	13294	6888	6130
55°	11553	6397	5793
60°	9978	5952	5484
65°	8593	5537	5160
70°	7362	5062	4762
75°	6148	4411	4231
80°	4853	3611	3505
85°	3115	2474	2474

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15130 cd/sqm



TEST NUMBER: P1217436

CATALOG NUMBER: S125DRP-H1005D830-X4F0-XX-UDD-G-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.2	6.0
10°-20°	586.1	14.2
20°-30°	744.7	18.1
30°-40°	758.5	18.4
40°-50°	670.9	16.3
50°-60°	525.8	12.8
60°-70°	358.6	8.7
70°-80°	184.7	4.5
80°-90°	41.3	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°	1579.0	38.3
0°-40°	2337.5	56.8
0°-60°	3534.1	85.8
0°-90°	4118.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4118.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2892	2892	2892	2892	2892	
5°	2870	2856	2712	2606	2575	273
15°	2784	2355	1952	1778	1745	785
25°	2558	1817	1467	1292	1254	1176
35°	2125	1374	1047	915	895	1323
45°	1513	973	745	665	655	1167
55°	937	650	519	471	470	844
65°	514	396	331	306	308	514
75°	225	189	162	151	155	242
85°	38	36	30	28	30	50
90°	0	0	0	0	0	



TEST NUMBER: P1217436

CATALOG NUMBER: S125DRP-H1005D830-X4F0-XX-UDD-G-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2891.7	2891.7	2891.7	2891.7	2891.7
2.5°	2877.1	2899.6	2845.3	2830.8	2820.2
5°	2870.5	2855.9	2711.6	2605.7	2575.2
7.5°	2859.9	2779.1	2494.5	2314.4	2286.6
10°	2840.0	2658.6	2276.0	2099.9	2065.5
12.5°	2817.5	2514.3	2103.9	1925.1	1892.0
15°	2784.4	2355.4	1951.6	1778.2	1745.1
17.5°	2744.7	2204.5	1813.9	1643.1	1611.3
20°	2694.4	2066.8	1685.5	1524.0	1492.2
22.5°	2632.2	1937.0	1571.6	1406.1	1371.7
25°	2558.0	1816.6	1467.0	1292.2	1253.9
27.5°	2473.3	1701.4	1359.8	1178.4	1141.3
30°	2371.3	1588.8	1253.9	1077.8	1047.3
32.5°	2256.1	1480.3	1145.3	990.4	965.2
35°	2125.1	1374.3	1047.3	914.9	895.0
37.5°	1982.1	1269.7	962.6	844.7	827.5
40°	1829.8	1167.8	883.1	779.9	766.6
42.5°	1672.2	1069.8	814.3	721.6	709.7
45°	1513.4	973.2	745.4	664.7	655.4
47.5°	1358.4	884.4	684.5	613.0	605.1
50°	1208.8	801.0	626.3	562.7	557.4
52.5°	1068.5	722.9	569.3	516.4	513.7
55°	937.4	650.1	519.0	471.4	470.0
57.5°	816.9	581.2	468.7	427.7	427.7
60°	705.7	516.4	421.0	385.3	387.9
62.5°	606.4	454.1	376.0	345.6	348.2
65°	513.7	395.9	331.0	305.8	308.5
67.5°	430.3	340.3	287.3	266.1	268.8
70°	356.2	287.3	244.9	226.4	230.4
72.5°	287.3	238.3	202.6	188.0	192.0
75°	225.1	189.3	161.5	150.9	154.9
77.5°	169.5	144.3	124.5	115.2	119.2
80°	119.2	103.3	88.7	82.1	86.1
82.5°	74.1	66.2	58.3	53.0	55.6
85°	38.4	35.7	30.5	27.8	30.5
87.5°	13.2	13.2	11.9	10.6	11.9
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1217436  
 CATALOG NUMBER: S125DRP-H1005D830-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	19.36	20.85	19.73	21.16	21.47	16.75	18.23	17.11	18.55	18.86
	3H	20.95	22.28	21.33	22.61	22.97	18.39	19.72	18.77	20.05	20.41
	4H	21.48	22.73	21.88	23.08	23.46	18.96	20.21	19.37	20.56	20.94
	6H	21.82	22.97	22.23	23.34	23.73	19.34	20.49	19.75	20.86	21.25
	8H	21.90	22.99	22.32	23.38	23.79	19.44	20.53	19.86	20.92	21.32
	12H	21.93	22.98	22.36	23.36	23.79	19.48	20.53	19.91	20.91	21.34
4H	2H	19.60	20.85	20.00	21.20	21.58	17.43	18.68	17.83	19.03	19.41
	3H	21.38	22.42	21.80	22.82	23.22	19.25	20.29	19.66	20.69	21.09
	4H	22.03	22.96	22.46	23.38	23.82	19.92	20.85	20.35	21.26	21.70
	6H	22.48	23.29	22.94	23.74	24.20	20.38	21.19	20.84	21.64	22.10
	8H	22.60	23.36	23.06	23.80	24.27	20.51	21.26	20.97	21.71	22.17
	12H	22.66	23.33	23.14	23.81	24.28	20.58	21.25	21.06	21.73	22.20
8H	4H	22.14	22.90	22.60	23.34	23.81	20.21	20.97	20.68	21.41	21.88
	6H	22.67	23.29	23.17	23.78	24.26	20.76	21.39	21.26	21.88	22.36
	8H	22.83	23.39	23.34	23.90	24.39	20.93	21.49	21.45	22.00	22.49
	12H	22.94	23.43	23.45	23.92	24.49	21.05	21.54	21.56	22.03	22.60
12H	4H	22.13	22.80	22.61	23.28	23.75	20.24	20.91	20.72	21.39	21.86
	6H	22.66	23.22	23.18	23.73	24.22	20.80	21.36	21.32	21.87	22.36
	8H	22.86	23.35	23.37	23.85	24.41	21.02	21.51	21.53	22.00	22.57