

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: P1061560

Luminaire Tested: S125RDRP-S1270D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

**Test Information**

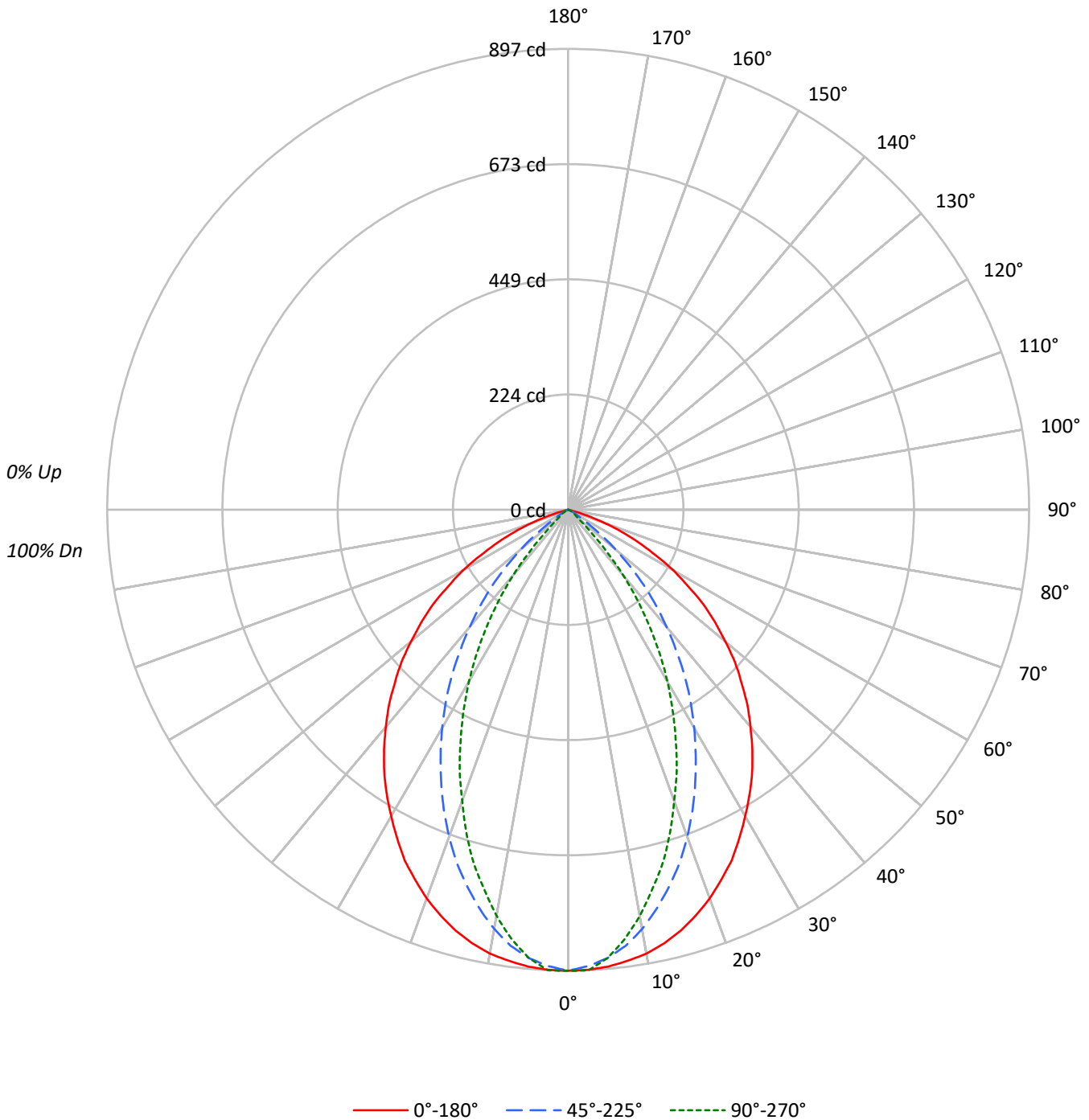
Test Method: LM-79-2024  
Report Number: P1061560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S1270D930-X4F0-XX-UDD-BVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1159.3 lumens  
Efficiency: N/A  
Efficacy: 27.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.8  
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

TEST NUMBER: P1061560  
CATALOG NUMBER: S125RDRP-S1270D930-X4F0-XX-UDD-BVL-B

### Luminous Intensity Polar Plot





TEST NUMBER: P1061560

CATALOG NUMBER: S125RDRP-S1270D930-X4F0-XX-UDD-BVL-B

**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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

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

	0°	45°	90°
0°	6179	6179	6179
5°	6170	6055	6055
10°	6134	5794	5612
15°	6043	5410	5072
20°	5899	4962	4415
25°	5721	4443	3760
30°	5478	3896	3069
35°	5244	3323	2299
40°	4959	2681	1489
45°	4646	2029	646
50°	4274	1294	241
55°	3851	569	170
60°	3261	245	114
65°	2468	155	59
70°	1502	72	24
75°	314	32	32
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4646 cd/sqm



TEST NUMBER: P1061560

CATALOG NUMBER: S125RDRP-S1270D930-X4F0-XX-UDD-BVL-B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.7	7.1
10°-20°	215.6	18.6
20°-30°	276.9	23.9
30°-40°	260.6	22.5
40°-50°	182.2	15.7
50°-60°	97.3	8.4
60°-70°	38.8	3.3
70°-80°	5.0	0.4
80°-90°	0.0	0.0
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°	575.3	49.6
0°-40°	835.9	72.1
0°-60°	1115.5	96.2
0°-90°	1159.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1159.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	893	890	876	878	876	85
15°	848	820	759	723	712	239
25°	753	687	585	521	495	346
35°	624	524	395	305	274	389
45°	477	358	208	101	66	368
55°	321	196	47	17	14	284
65°	152	60	10	5	4	151
75°	12	4	1	1	1	23
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P1061560

CATALOG NUMBER: S125RDRP-S1270D930-X4F0-XX-UDD-BVL-B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	897.4	897.4	897.4	897.4	897.4
2.5°	896.2	897.4	889.1	896.2	897.4
5°	892.7	890.3	876.1	878.5	876.1
7.5°	885.6	879.6	856.0	847.7	842.9
10°	877.3	864.3	828.7	811.0	802.7
12.5°	864.3	845.3	795.6	768.4	756.5
15°	847.7	820.4	758.9	723.4	711.5
17.5°	827.5	792.0	721.0	677.2	659.4
20°	805.1	757.7	677.2	625.1	602.6
22.5°	779.0	724.5	632.2	574.2	551.7
25°	753.0	686.7	584.8	520.9	494.9
27.5°	721.0	647.6	537.5	468.8	440.4
30°	689.0	608.5	490.1	415.6	386.0
32.5°	657.1	567.1	442.8	359.9	330.3
35°	623.9	524.5	395.4	305.4	273.5
37.5°	588.4	481.8	344.5	253.4	220.2
40°	551.7	440.4	298.3	202.4	165.7
42.5°	516.2	399.0	252.2	152.7	112.5
45°	477.1	357.5	208.4	100.6	66.3
47.5°	440.4	317.3	163.4	58.0	34.3
50°	399.0	275.8	120.8	30.8	22.5
52.5°	359.9	235.6	80.5	20.1	17.8
55°	320.8	196.5	47.4	16.6	14.2
57.5°	275.8	158.6	26.0	13.0	10.7
60°	236.8	124.3	17.8	9.5	8.3
62.5°	191.8	91.2	13.0	7.1	5.9
65°	151.5	60.4	9.5	4.7	3.6
67.5°	112.5	35.5	5.9	2.4	2.4
70°	74.6	18.9	3.6	1.2	1.2
72.5°	39.1	8.3	2.4	1.2	1.2
75°	11.8	3.6	1.2	1.2	1.2
77.5°	0.0	1.2	0.0	0.0	1.2
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1061560  
 CATALOG NUMBER: S125RDRP-S1270D930-X4F0-XX-UDD-BVL-B

**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	15.27	16.53	15.63	16.85	17.16	0.00	0.00	0.00	0.00	0.00
	3H	15.85	16.97	16.23	17.30	17.66	0.00	0.00	0.00	0.00	0.00
	4H	15.82	16.85	16.22	17.20	17.59	0.00	0.00	0.00	0.00	0.00
	6H	15.73	16.68	16.15	17.05	17.44	0.00	0.00	0.00	0.00	0.00
	8H	15.69	16.58	16.12	16.97	17.38	0.00	0.00	0.00	0.00	0.00
	12H	15.64	16.49	16.07	16.88	17.31	0.00	0.00	0.00	0.00	0.00
4H	2H	15.04	16.07	15.45	16.43	16.81	0.00	0.00	0.00	0.00	0.00
	3H	15.63	16.47	16.05	16.88	17.28	0.00	0.00	0.00	0.00	0.00
	4H	15.58	16.33	16.02	16.75	17.19	0.00	0.00	0.00	0.00	0.00
	6H	15.50	16.13	15.96	16.58	17.05	0.00	0.00	0.00	0.00	0.00
	8H	15.44	16.03	15.91	16.48	16.95	0.00	0.00	0.00	0.00	0.00
	12H	15.39	15.91	15.87	16.39	16.87	0.00	0.00	0.00	0.00	0.00
8H	4H	15.44	16.03	15.91	16.48	16.95	0.00	0.00	0.00	0.00	0.00
	6H	15.33	15.81	15.83	16.31	16.79	0.00	0.00	0.00	0.00	0.00
	8H	15.26	15.70	15.79	16.21	16.71	0.00	0.00	0.00	0.00	0.00
	12H	15.22	15.60	15.73	16.09	16.67	0.00	0.00	0.00	0.00	0.00
12H	4H	15.39	15.91	15.87	16.39	16.87	0.00	0.00	0.00	0.00	0.00
	6H	15.26	15.70	15.79	16.21	16.71	0.00	0.00	0.00	0.00	0.00
	8H	15.22	15.60	15.73	16.09	16.67	0.00	0.00	0.00	0.00	0.00