

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: P1061566

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

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S1270D930-X4F0-XX-UDD-WVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

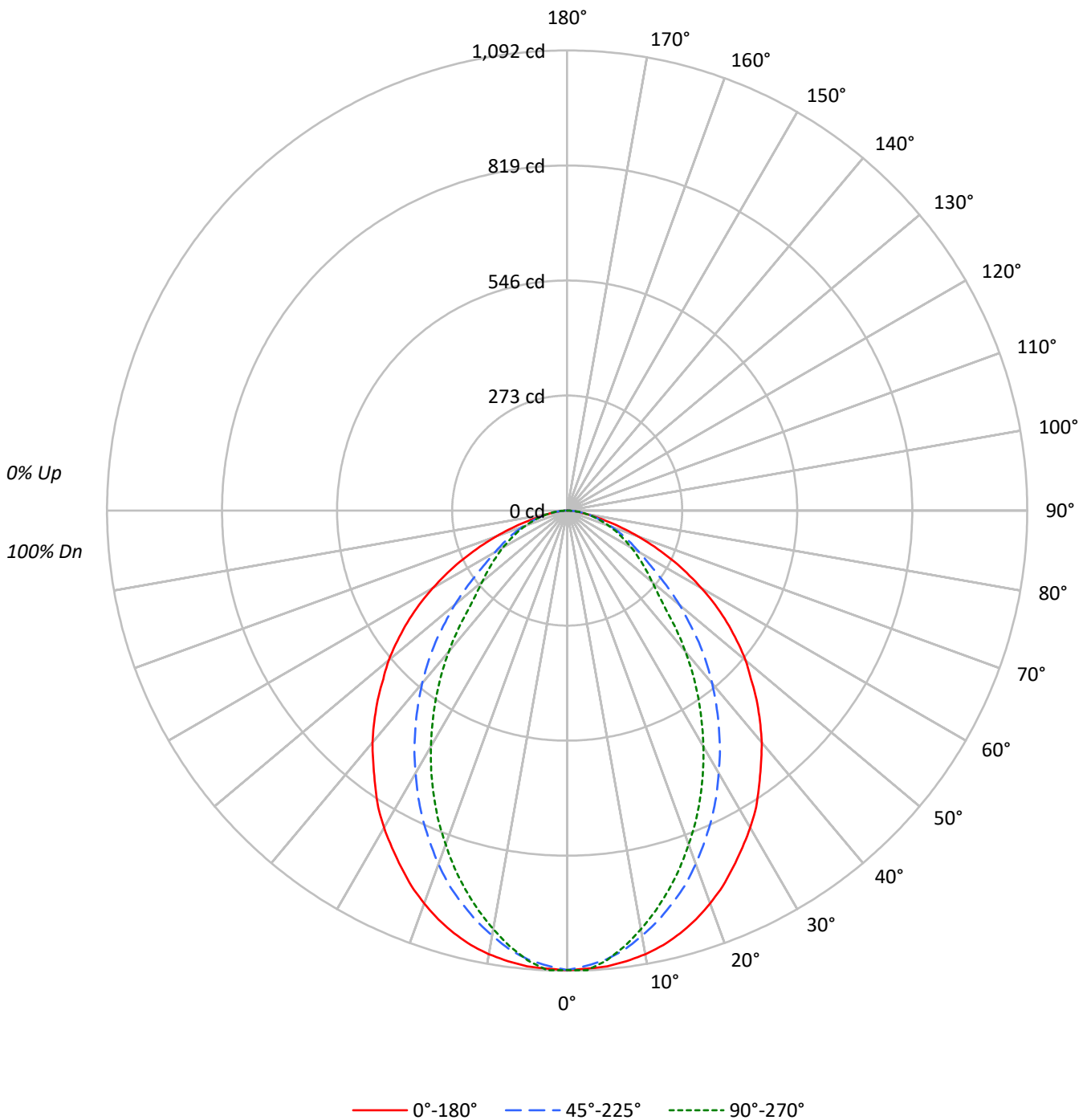
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2065.7 lumens  
Efficiency: N/A  
Efficacy: 49.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11  
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 (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: P1061566

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

### Luminous Intensity Polar Plot





TEST NUMBER: P1061566

CATALOG NUMBER: S125RDRP-S1270D930-X4F0-XX-UDD-WVL-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	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	100	100	100	100	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87	87	87	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75	75	75	75	75	75	75		
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65	65	65	65	65	65	65		
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57	57	57	57	57	57	57		
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50	50	50	50	50	50	50		
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45	45	45	45	45	45	45		
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40	40	40	40	40		
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36	36	36	36	36	36	36		
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33	33	33	33	33		
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30	30	30	30		

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

	0°	45°	90°
0°	7508	7508	7508
5°	7504	7389	7406
10°	7475	7160	7052
15°	7401	6878	6642
20°	7269	6541	6177
25°	7088	6152	5685
30°	6909	5714	5139
35°	6677	5274	4557
40°	6460	4810	3927
45°	6191	4300	3216
50°	5922	3729	2815
55°	5557	3113	2601
60°	5070	2722	2429
65°	4436	2488	2256
70°	3599	2241	2098
75°	2583	2048	1953
80°	1784	1832	1832
85°	1311	1588	1683

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6191 cd/sqm



TEST NUMBER: P1061566

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.4	4.9
10°-20°	274.2	13.3
20°-30°	379.0	18.3
30°-40°	403.7	19.5
40°-50°	354.6	17.2
50°-60°	268.9	13.0
60°-70°	174.6	8.5
70°-80°	86.5	4.2
80°-90°	22.7	1.1
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°	754.6	36.5
0°-40°	1158.3	56.1
0°-60°	1781.9	86.3
0°-90°	2065.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2065.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1086	1083	1069	1073	1072	103
15°	1038	1015	965	942	932	292
25°	933	882	810	768	748	430
35°	794	721	628	571	542	497
45°	636	547	442	362	330	490
55°	463	372	259	224	217	413
65°	272	202	153	141	138	269
75°	97	85	77	75	73	108
85°	17	19	20	20	21	20
90°	0	0	0	0	0	



TEST NUMBER: P1061566

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1090.4	1090.4	1090.4	1090.4	1090.4
2.5°	1088.0	1090.4	1080.9	1089.2	1091.6
5°	1085.7	1083.3	1069.1	1072.7	1071.5
7.5°	1078.6	1073.8	1050.2	1047.8	1043.1
10°	1069.1	1057.3	1024.1	1015.8	1008.7
12.5°	1056.1	1037.1	996.9	980.3	972.0
15°	1038.3	1014.6	964.9	942.4	931.8
17.5°	1017.0	983.9	931.8	901.0	889.1
20°	992.1	953.1	892.7	857.2	843.0
22.5°	964.9	918.7	851.3	813.4	798.0
25°	933.0	882.0	809.8	768.4	748.3
27.5°	901.0	844.2	766.0	719.8	698.5
30°	869.0	803.9	718.7	668.9	646.4
32.5°	834.7	762.5	674.9	620.4	594.3
35°	794.4	721.0	627.5	570.7	542.2
37.5°	755.4	677.2	581.3	517.4	490.2
40°	718.7	635.8	535.1	465.3	436.9
42.5°	677.2	592.0	489.0	415.6	383.6
45°	635.8	547.0	441.6	362.3	330.3
47.5°	592.0	504.4	391.9	313.7	292.4
50°	552.9	460.6	348.1	277.0	262.8
52.5°	507.9	417.9	303.1	248.6	239.2
55°	462.9	371.8	259.3	223.8	216.7
57.5°	416.7	330.3	225.0	202.5	195.4
60°	368.2	287.7	197.7	180.0	176.4
62.5°	319.7	243.9	174.0	161.0	156.3
65°	272.3	202.5	152.7	140.9	138.5
67.5°	223.8	164.6	131.4	123.1	121.9
70°	178.8	133.8	111.3	106.6	104.2
72.5°	137.3	106.6	93.5	90.0	88.8
75°	97.1	85.2	77.0	74.6	73.4
77.5°	65.1	65.1	61.6	59.2	60.4
80°	45.0	47.4	46.2	46.2	46.2
82.5°	29.6	32.0	33.2	33.2	33.2
85°	16.6	18.9	20.1	20.1	21.3
87.5°	5.9	7.1	8.3	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1061566  
 CATALOG NUMBER: S125RDRP-S1270D930-X4F0-XX-UDD-WVL-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	17.56	19.05	17.92	19.36	19.68	13.80	15.29	14.17	15.61	15.92
	3H	18.87	20.20	19.25	20.53	20.90	15.38	16.72	15.76	17.05	17.41
	4H	19.24	20.49	19.64	20.84	21.22	15.99	17.24	16.39	17.59	17.97
	6H	19.41	20.57	19.83	20.94	21.33	16.46	17.61	16.87	17.98	18.37
	8H	19.45	20.55	19.88	20.94	21.34	16.62	17.72	17.04	18.11	18.51
	12H	19.46	20.52	19.89	20.90	21.33	16.73	17.78	17.16	18.16	18.59
4H	2H	17.67	18.92	18.07	19.27	19.65	14.46	15.71	14.86	16.06	16.44
	3H	19.16	20.19	19.57	20.59	21.00	16.24	17.28	16.65	17.68	18.08
	4H	19.63	20.56	20.06	20.98	21.42	16.96	17.89	17.39	18.31	18.75
	6H	19.92	20.73	20.38	21.17	21.63	17.55	18.36	18.01	18.80	19.26
	8H	19.99	20.74	20.45	21.19	21.66	17.76	18.51	18.22	18.96	19.42
	12H	20.03	20.70	20.51	21.18	21.65	17.91	18.59	18.39	19.06	19.54
8H	4H	19.71	20.47	20.18	20.92	21.38	17.27	18.03	17.74	18.47	18.94
	6H	20.08	20.70	20.58	21.19	21.67	17.98	18.60	18.48	19.10	19.57
	8H	20.19	20.75	20.71	21.27	21.75	18.26	18.82	18.77	19.33	19.82
	12H	20.28	20.78	20.79	21.27	21.83	18.49	18.98	19.00	19.48	20.04
12H	4H	19.71	20.38	20.19	20.86	21.33	17.30	17.97	17.78	18.45	18.92
	6H	20.08	20.64	20.60	21.15	21.64	18.03	18.59	18.54	19.10	19.59
	8H	20.24	20.74	20.75	21.23	21.79	18.37	18.86	18.88	19.35	19.92