

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061966

Luminaire Tested: S125RDR-H1270D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-H1270D930-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

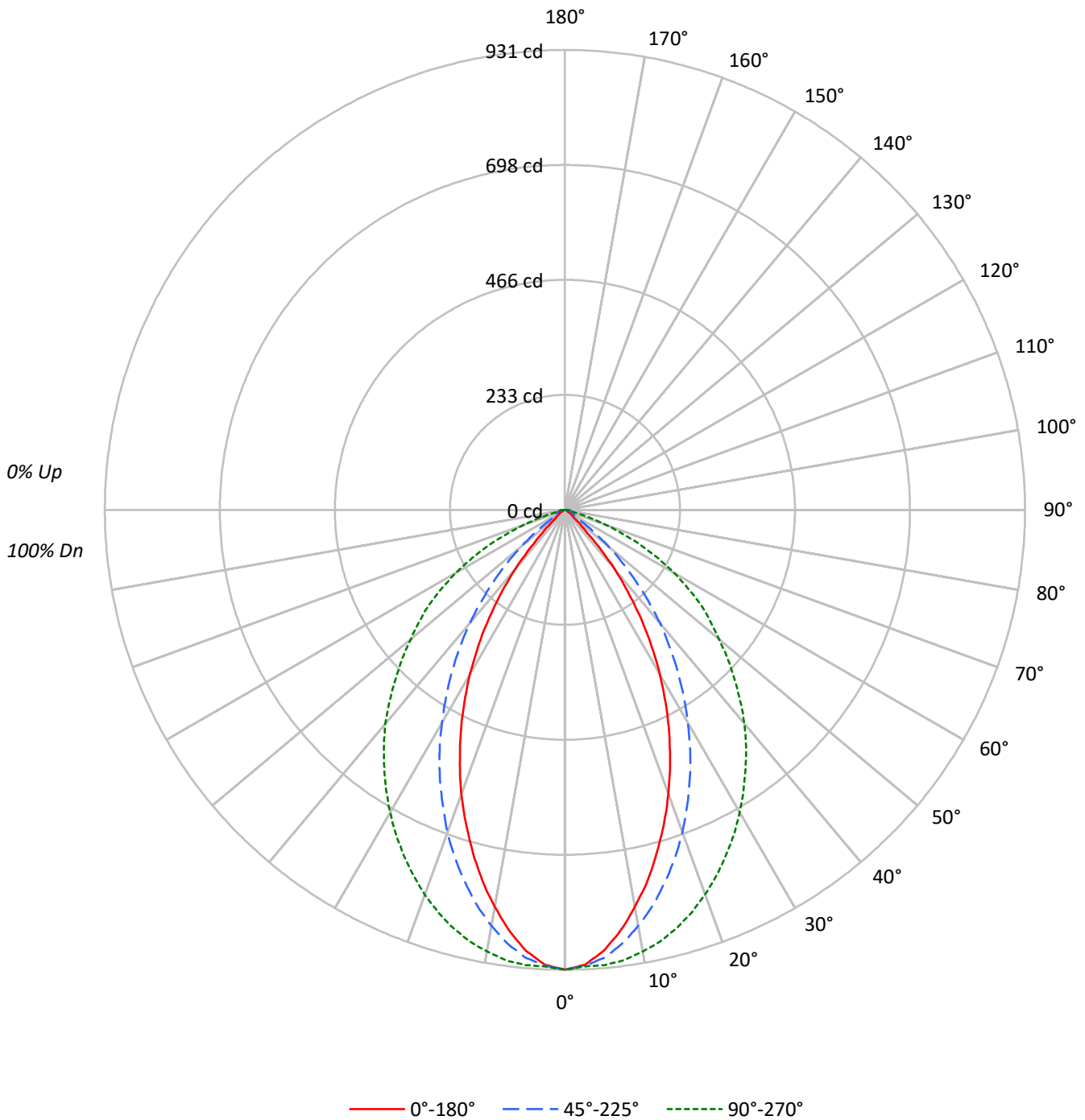
Lumens per Lamp: N/A
Luminaire Lumens: 1197.1 lumens
Efficiency: N/A
Efficacy: 32.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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: P1061966

CATALOG NUMBER: S125RDR-H1270D930-X4F0-XX-UDD-BVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1061966

CATALOG NUMBER: S125RDR-H1270D930-X4F0-XX-UDD-BVL-S

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				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49				
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45				
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6409	6409	6409
5°	6196	6290	6393
10°	5706	5978	6347
15°	5123	5564	6243
20°	4485	5089	6073
25°	3788	4546	5860
30°	3053	3955	5623
35°	2245	3334	5357
40°	1401	2689	5079
45°	525	1964	4722
50°	245	1228	4359
55°	179	509	4032
60°	127	269	3488
65°	75	318	2763
70°	68	368	1753
75°	90	367	548
80°	135	456	408
85°	269	727	545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4722 cd/sqm



TEST NUMBER: P1061966

CATALOG NUMBER: S125RDR-H1270D930-X4F0-XX-UDD-BVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	7.1
10°-20°	221.0	18.5
20°-30°	281.5	23.5
30°-40°	262.0	21.9
40°-50°	179.5	15.0
50°-60°	98.9	8.3
60°-70°	46.8	3.9
70°-80°	14.7	1.2
80°-90°	7.5	0.6
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°	587.8	49.1
0°-40°	849.8	71.0
0°-60°	1128.1	94.2
0°-90°	1197.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1197.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	896	908	910	917	925	83
15°	719	742	781	839	876	200
25°	499	530	598	695	771	228
35°	267	305	397	527	637	166
45°	54	91	202	358	485	51
55°	15	17	42	200	336	14
65°	5	6	20	73	170	5
75°	3	6	14	15	21	4
85°	3	8	9	8	7	3
90°	0	0	0	0	0	



TEST NUMBER: P1061966

CATALOG NUMBER: S125RDR-H1270D930-X4F0-XX-UDD-BVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	930.8	930.8	930.8	930.8	930.8
2.5°	921.6	930.8	923.9	923.9	925.0
5°	896.4	907.8	910.1	917.0	925.0
7.5°	859.7	874.6	886.1	905.6	919.3
10°	816.1	834.5	855.1	887.2	907.8
12.5°	770.3	789.8	820.7	865.4	894.1
15°	718.7	741.6	780.6	839.1	875.8
17.5°	666.0	691.2	739.3	808.1	854.0
20°	612.1	638.5	694.6	771.4	828.8
22.5°	555.9	584.6	646.5	733.6	801.2
25°	498.6	529.6	598.4	694.6	771.4
27.5°	441.3	473.4	549.1	654.5	740.5
30°	384.0	417.2	497.5	613.3	707.2
32.5°	325.5	362.2	447.0	572.0	672.9
35°	267.1	304.9	396.6	527.3	637.3
37.5°	209.8	248.7	347.3	484.9	601.8
40°	155.9	194.9	299.2	442.5	565.1
42.5°	100.9	142.1	248.7	398.9	525.0
45°	53.9	90.6	201.7	357.6	484.9
47.5°	28.7	48.1	157.0	316.4	447.0
50°	22.9	26.4	114.6	275.1	406.9
52.5°	18.3	20.6	73.4	232.7	371.4
55°	14.9	17.2	42.4	199.5	335.9
57.5°	11.5	13.8	24.1	166.2	294.6
60°	9.2	10.3	19.5	133.0	253.3
62.5°	5.7	8.0	19.5	103.2	212.1
65°	4.6	5.7	19.5	73.4	169.6
67.5°	4.6	4.6	19.5	48.1	127.2
70°	3.4	3.4	18.3	30.9	87.1
72.5°	3.4	3.4	16.0	20.6	50.4
75°	3.4	5.7	13.8	14.9	20.6
77.5°	3.4	9.2	12.6	12.6	11.5
80°	3.4	9.2	11.5	10.3	10.3
82.5°	3.4	9.2	9.2	9.2	8.0
85°	3.4	8.0	9.2	8.0	6.9
87.5°	3.4	8.0	8.0	8.0	4.6
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1061966
 CATALOG NUMBER: S125RDR-H1270D930-X4F0-XX-UDD-BVL-S

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	0.00	0.00	0.00	0.00	0.00	15.50	16.78	15.86	17.10	17.41
	3H	0.00	0.00	0.00	0.00	0.00	16.29	17.42	16.67	17.75	18.12
	4H	0.00	0.00	0.00	0.00	0.00	16.31	17.37	16.71	17.72	18.10
	6H	0.00	0.15	0.00	0.52	0.92	16.27	17.24	16.68	17.61	18.00
	8H	0.00	0.77	0.28	1.16	1.57	16.24	17.16	16.68	17.55	17.96
	12H	0.59	1.47	1.02	1.85	2.28	16.23	17.10	16.66	17.49	17.92
4H	2H	0.00	0.35	0.00	0.70	1.09	15.28	16.34	15.69	16.69	17.08
	3H	0.15	1.02	0.57	1.42	1.83	16.11	16.97	16.52	17.38	17.78
	4H	0.74	1.52	1.18	1.94	2.38	16.14	16.91	16.58	17.33	17.78
	6H	2.24	2.91	2.71	3.35	3.82	16.13	16.80	16.59	17.24	17.71
	8H	2.98	3.60	3.45	4.05	4.52	16.11	16.73	16.58	17.18	17.65
	12H	3.72	4.26	4.20	4.75	5.22	16.12	16.66	16.60	17.15	17.62
8H	4H	2.79	3.41	3.26	3.86	4.33	16.03	16.65	16.50	17.10	17.57
	6H	4.54	5.04	5.04	5.54	6.02	16.03	16.54	16.53	17.03	17.52
	8H	5.49	5.95	6.01	6.46	6.95	16.04	16.49	16.56	17.01	17.50
	12H	6.42	6.82	6.93	7.31	7.89	16.08	16.48	16.60	16.98	17.55
12H	4H	3.09	3.64	3.58	4.12	4.60	15.99	16.53	16.47	17.02	17.49
	6H	5.00	5.45	5.52	5.97	6.46	15.99	16.44	16.51	16.96	17.45
	8H	6.13	6.53	6.65	7.03	7.60	16.03	16.43	16.54	16.92	17.49