

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: P1061915

Luminaire Tested: S125RDRP-H1090D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H1090D950-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

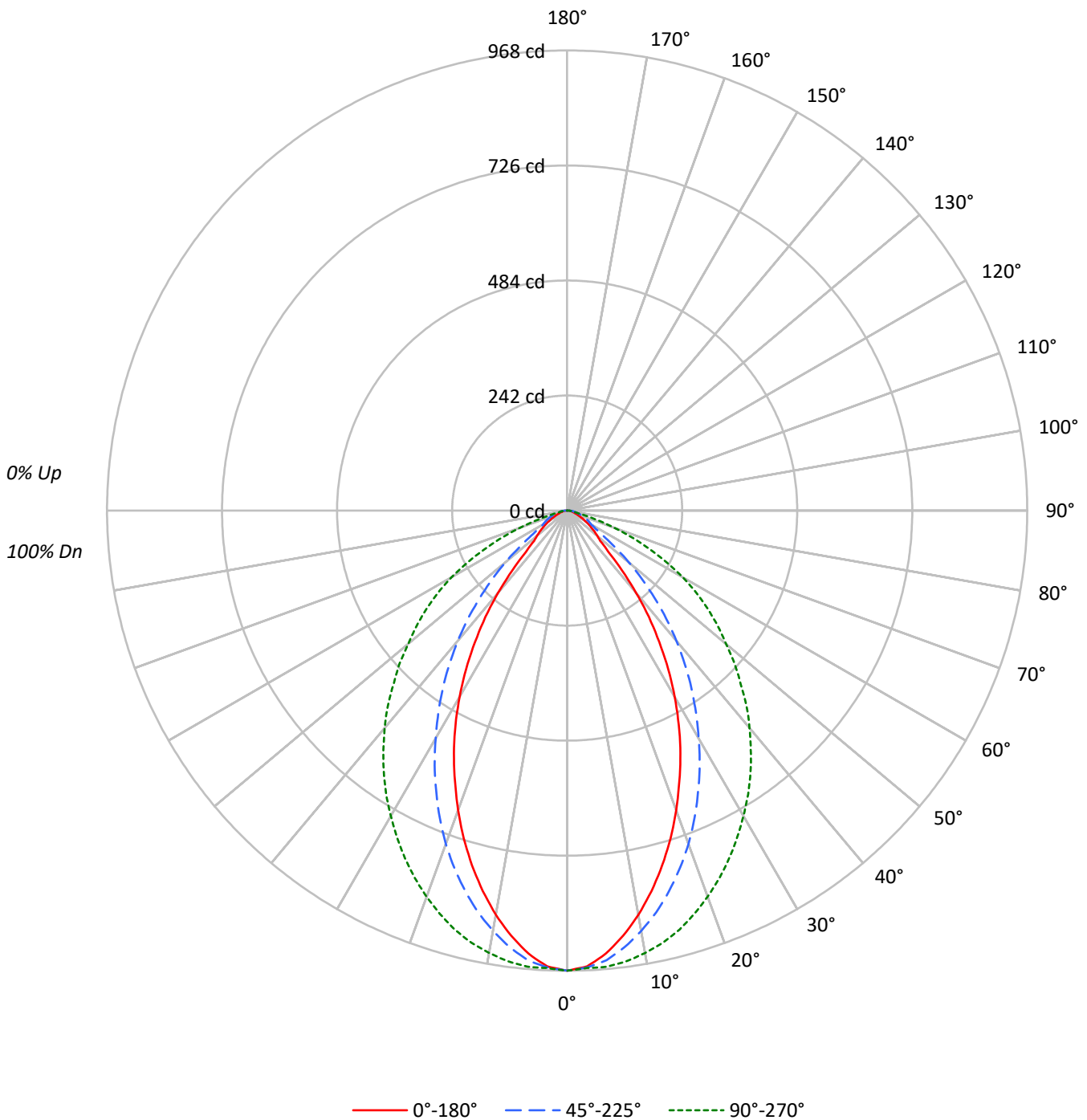
Lumens per Lamp: N/A
Luminaire Lumens: 1397.3 lumens
Efficiency: N/A
Efficacy: 44.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (A_{in}): 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: P1061915

CATALOG NUMBER: S125RDRP-H1090D950-X4F0-XX-UDD-SVL-S

Luminous Intensity Polar Plot



TEST NUMBER: P1061915

CATALOG NUMBER: S125RDRP-H1090D950-X4F0-XX-UDD-SVL-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	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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56					56			
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6664	6664	6664
5°	6466	6562	6657
10°	6036	6276	6606
15°	5507	5908	6506
20°	4912	5467	6334
25°	4282	4954	6131
30°	3596	4399	5896
35°	2837	3831	5654
40°	2033	3220	5366
45°	1196	2526	5030
50°	886	1820	4672
55°	744	1102	4341
60°	600	806	3874
65°	468	767	3105
70°	393	717	2104
75°	367	641	915
80°	365	638	591
85°	450	814	632

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5030 cd/sqm



TEST NUMBER: P1061915

CATALOG NUMBER: S125RDRP-H1090D950-X4F0-XX-UDD-SVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	6.4
10°-20°	234.3	16.8
20°-30°	306.1	21.9
30°-40°	298.0	21.3
40°-50°	222.7	15.9
50°-60°	138.1	9.9
60°-70°	72.6	5.2
70°-80°	26.4	1.9
80°-90°	10.0	0.7
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°	629.6	45.1
0°-40°	927.6	66.4
0°-60°	1288.4	92.2
0°-90°	1397.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1397.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	968	968	968	968	968	
5°	936	948	949	955	963	87
15°	773	796	829	879	913	216
25°	564	592	652	740	807	257
35°	338	374	456	577	673	210
45°	123	161	259	405	517	103
55°	62	65	92	239	362	56
65°	29	31	47	101	191	30
75°	14	16	24	26	34	15
85°	6	10	10	10	8	6
90°	0	0	0	0	0	



TEST NUMBER: P1061915

CATALOG NUMBER: S125RDRP-H1090D950-X4F0-XX-UDD-SVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	967.8	967.8	967.8	967.8	967.8
2.5°	959.7	967.8	962.0	962.0	963.2
5°	935.6	948.2	949.4	955.1	963.2
7.5°	902.3	917.2	926.4	943.6	956.3
10°	863.3	880.5	897.7	926.4	944.8
12.5°	819.7	840.3	865.6	904.6	931.0
15°	772.6	795.6	828.8	879.4	912.7
17.5°	723.2	747.3	788.7	849.5	889.7
20°	670.4	696.8	746.2	815.1	864.4
22.5°	616.5	646.3	700.3	778.3	836.9
25°	563.7	592.4	652.1	740.5	807.0
27.5°	508.6	538.4	603.8	701.4	774.9
30°	452.3	484.5	553.3	661.2	741.6
32.5°	396.1	429.3	504.0	619.9	708.3
35°	337.5	374.2	455.8	577.4	672.7
37.5°	282.4	321.4	406.4	533.8	634.8
40°	226.2	266.3	358.2	491.3	597.0
42.5°	171.1	212.4	308.8	447.7	559.1
45°	122.8	160.7	259.4	405.2	516.6
47.5°	94.1	115.9	213.5	361.6	478.7
50°	82.7	89.5	169.9	319.1	436.2
52.5°	72.3	76.9	126.3	277.8	399.5
55°	62.0	65.4	91.8	238.8	361.6
57.5°	52.8	56.3	70.0	203.2	322.6
60°	43.6	47.1	58.5	167.6	281.3
62.5°	36.7	37.9	52.8	134.3	235.3
65°	28.7	31.0	47.1	101.0	190.6
67.5°	24.1	25.3	41.3	72.3	146.9
70°	19.5	20.7	35.6	50.5	104.5
72.5°	17.2	17.2	29.8	36.7	66.6
75°	13.8	16.1	24.1	26.4	34.4
77.5°	11.5	16.1	20.7	19.5	18.4
80°	9.2	14.9	16.1	16.1	14.9
82.5°	8.0	12.6	13.8	12.6	11.5
85°	5.7	10.3	10.3	10.3	8.0
87.5°	4.6	9.2	8.0	8.0	5.7
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1061915
 CATALOG NUMBER: S125RDRP-H1090D950-X4F0-XX-UDD-SVL-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	6.38	7.73	6.75	8.04	8.36	16.08	17.43	16.45	17.74	18.06
	3H	7.22	8.42	7.60	8.75	9.11	16.99	18.19	17.37	18.52	18.88
	4H	7.58	8.70	7.98	9.05	9.43	17.09	18.21	17.49	18.56	18.94
	6H	7.95	8.98	8.37	9.35	9.74	17.08	18.10	17.49	18.47	18.87
	8H	8.13	9.11	8.56	9.50	9.90	17.06	18.04	17.49	18.43	18.83
	12H	8.29	9.22	8.73	9.61	10.04	17.05	17.98	17.48	18.36	18.79
4H	2H	7.21	8.33	7.61	8.68	9.06	15.93	17.05	16.33	17.40	17.78
	3H	8.27	9.18	8.68	9.59	9.99	16.92	17.83	17.33	18.24	18.64
	4H	8.72	9.54	9.16	9.96	10.40	17.05	17.87	17.48	18.29	18.73
	6H	9.28	9.99	9.74	10.43	10.90	17.08	17.79	17.54	18.23	18.70
	8H	9.54	10.20	10.01	10.64	11.12	17.08	17.74	17.55	18.19	18.66
	12H	9.78	10.36	10.26	10.84	11.32	17.09	17.67	17.58	18.16	18.63
8H	4H	9.28	9.94	9.75	10.38	10.85	16.97	17.63	17.44	18.08	18.55
	6H	10.06	10.59	10.56	11.09	11.57	17.03	17.57	17.54	18.07	18.55
	8H	10.47	10.95	10.99	11.47	11.96	17.06	17.55	17.58	18.06	18.55
	12H	10.88	11.31	11.40	11.81	12.38	17.12	17.54	17.63	18.04	18.61
12H	4H	9.34	9.92	9.82	10.40	10.88	16.94	17.52	17.43	18.01	18.48
	6H	10.20	10.68	10.72	11.20	11.69	17.00	17.48	17.52	18.00	18.49
	8H	10.72	11.15	11.24	11.65	12.22	17.07	17.49	17.58	17.99	18.56