

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: P1061493

Luminaire Tested: S125RDRP-S1090D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S1090D935-X4F0-XX-UDD-SVL-W  
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

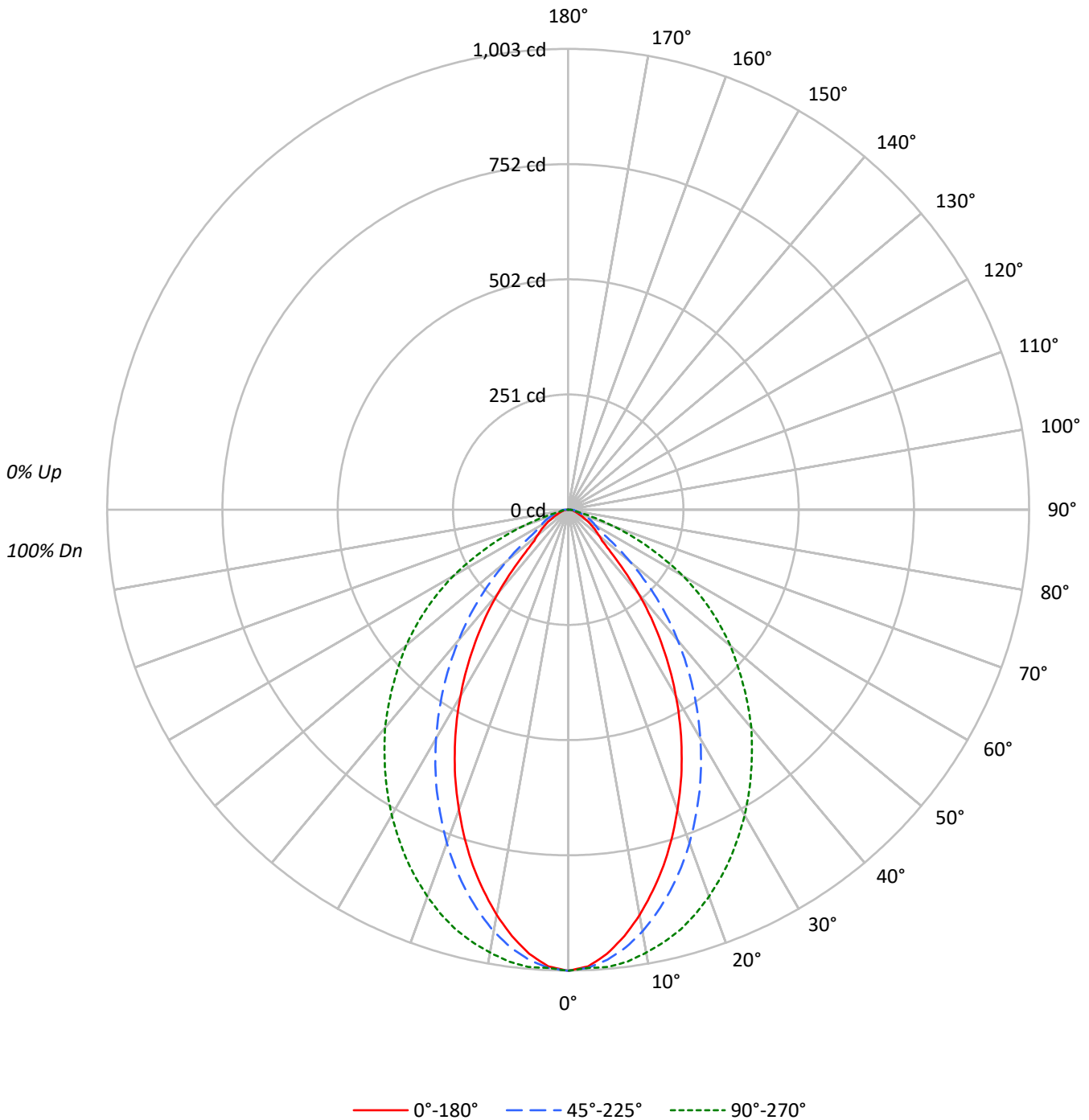
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1453.4 lumens  
Efficiency: N/A  
Efficacy: 41.5 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): 35  
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: P1061493

CATALOG NUMBER: S125RDRP-S1090D935-X4F0-XX-UDD-SVL-W

### Luminous Intensity Polar Plot





TEST NUMBER: P1061493

CATALOG NUMBER: S125RDRP-S1090D935-X4F0-XX-UDD-SVL-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	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	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79					79			
3	96	88	81	76	94	86	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	62					62			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					36			

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

	0°	45°	90°
0°	6909	6909	6909
5°	6706	6795	6905
10°	6262	6515	6844
15°	5716	6119	6742
20°	5094	5657	6563
25°	4439	5136	6351
30°	3730	4569	6104
35°	2966	3971	5835
40°	2137	3335	5568
45°	1267	2648	5243
50°	936	1884	4934
55°	793	1164	4518
60°	646	939	3980
65°	503	868	3144
70°	429	751	2104
75°	396	652	851
80°	424	678	591
85°	506	1011	671

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5243 cd/sqm



TEST NUMBER: P1061493

CATALOG NUMBER: S125RDRP-S1090D935-X4F0-XX-UDD-SVL-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	6.4
10°-20°	242.9	16.7
20°-30°	317.5	21.8
30°-40°	309.3	21.3
40°-50°	231.9	16.0
50°-60°	145.4	10.0
60°-70°	75.7	5.2
70°-80°	27.4	1.9
80°-90°	10.9	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°	652.8	44.9
0°-40°	962.1	66.2
0°-60°	1339.4	92.2
0°-90°	1453.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1453.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	970	983	983	991	999	90
15°	802	825	858	912	946	224
25°	584	616	676	768	836	267
35°	353	390	472	598	694	219
45°	130	168	272	420	538	109
55°	66	69	97	254	376	59
65°	31	33	53	102	193	32
75°	15	20	24	26	32	16
85°	6	11	13	12	8	7
90°	0	0	0	0	0	



TEST NUMBER: P1061493

CATALOG NUMBER: S125RDRP-S1090D935-X4F0-XX-UDD-SVL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1003.4	1003.4	1003.4	1003.4	1003.4
2.5°	994.9	1004.5	998.1	998.1	998.1
5°	970.3	983.1	983.1	990.6	999.1
7.5°	936.2	951.1	960.7	978.9	991.7
10°	895.7	913.8	931.9	961.8	978.9
12.5°	849.8	871.2	896.8	938.3	963.9
15°	801.9	825.3	858.4	911.7	945.8
17.5°	749.6	777.3	816.8	880.8	922.3
20°	695.2	723.0	772.0	844.5	895.7
22.5°	640.8	670.7	724.0	806.1	866.9
25°	584.3	616.3	676.0	767.7	836.0
27.5°	526.8	559.8	625.9	728.3	801.9
30°	469.2	503.3	574.7	685.6	767.7
32.5°	411.6	447.8	523.6	641.9	731.5
35°	352.9	390.3	472.4	598.2	694.2
37.5°	296.4	333.8	421.2	553.4	656.8
40°	237.8	278.3	371.1	508.6	619.5
42.5°	180.2	221.8	321.0	463.8	579.0
45°	130.1	168.5	271.9	420.1	538.5
47.5°	100.2	121.6	221.8	375.3	499.0
50°	87.4	93.8	175.9	333.8	460.6
52.5°	75.7	80.0	132.2	295.4	419.1
55°	66.1	69.3	97.0	253.8	376.4
57.5°	55.4	59.7	76.8	213.3	332.7
60°	46.9	49.0	68.2	175.9	289.0
62.5°	38.4	40.5	60.8	138.6	239.9
65°	30.9	33.1	53.3	102.4	193.0
67.5°	25.6	26.7	44.8	72.5	148.2
70°	21.3	22.4	37.3	50.1	104.5
72.5°	18.1	21.3	29.9	36.3	66.1
75°	14.9	20.3	24.5	25.6	32.0
77.5°	12.8	19.2	20.3	20.3	18.1
80°	10.7	16.0	17.1	16.0	14.9
82.5°	8.5	12.8	13.9	13.9	11.7
85°	6.4	10.7	12.8	11.7	8.5
87.5°	4.3	9.6	10.7	9.6	6.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1061493

CATALOG NUMBER: S125RDRP-S1090D935-X4F0-XX-UDD-SVL-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	6.63	7.98	7.00	8.30	8.61	16.25	17.60	16.61	17.91	18.23
	3H	7.49	8.69	7.87	9.02	9.38	17.09	18.29	17.47	18.62	18.98
	4H	7.91	9.03	8.31	9.38	9.76	17.16	18.28	17.56	18.63	19.01
	6H	8.34	9.37	8.76	9.74	10.13	17.14	18.17	17.56	18.54	18.94
	8H	8.52	9.50	8.95	9.89	10.29	17.13	18.11	17.56	18.50	18.90
	12H	8.68	9.62	9.11	10.00	10.43	17.12	18.05	17.55	18.43	18.86
4H	2H	7.59	8.71	8.00	9.06	9.45	16.11	17.23	16.51	17.58	17.96
	3H	8.65	9.56	9.06	9.97	10.37	17.02	17.94	17.43	18.34	18.74
	4H	9.21	10.03	9.64	10.45	10.89	17.12	17.94	17.56	18.36	18.80
	6H	9.81	10.52	10.27	10.96	11.43	17.15	17.86	17.61	18.30	18.77
	8H	10.05	10.71	10.52	11.16	11.63	17.15	17.81	17.62	18.26	18.73
	12H	10.28	10.86	10.76	11.34	11.82	17.16	17.75	17.65	18.23	18.70
8H	4H	9.68	10.34	10.15	10.79	11.26	17.05	17.71	17.51	18.15	18.62
	6H	10.50	11.04	11.00	11.53	12.01	17.10	17.64	17.60	18.14	18.62
	8H	10.88	11.36	11.40	11.88	12.37	17.13	17.62	17.65	18.13	18.63
	12H	11.27	11.70	11.78	12.19	12.76	17.20	17.63	17.71	18.12	18.69
12H	4H	9.73	10.32	10.22	10.80	11.28	17.01	17.60	17.50	18.08	18.55
	6H	10.62	11.11	11.14	11.62	12.11	17.07	17.55	17.59	18.07	18.56
	8H	11.11	11.54	11.62	12.03	12.60	17.14	17.57	17.65	18.06	18.63