

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: P1061817

Luminaire Tested: S125RDRP-S850D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061817
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-S850D935-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

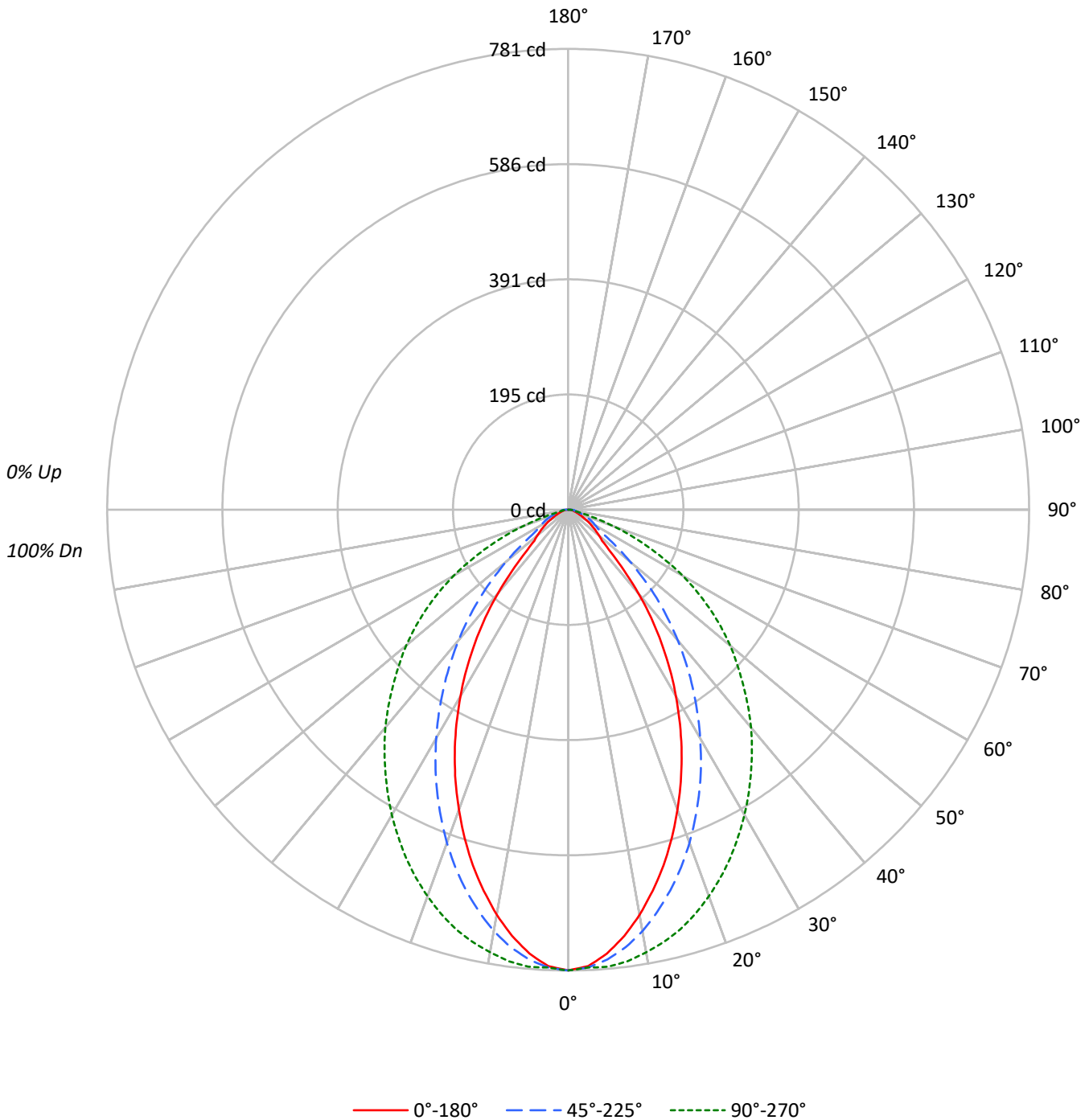
Lumens per Lamp: N/A
Luminaire Lumens: 1131.0 lumens
Efficiency: N/A
Efficacy: 43.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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: P1061817

CATALOG NUMBER: S125RDRP-S850D935-X4F0-XX-UDD-SVL-W

Luminous Intensity Polar Plot





TEST NUMBER: P1061817

CATALOG NUMBER: S125RDRP-S850D935-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5376	5376	5376
5°	5219	5287	5374
10°	4873	5070	5325
15°	4448	4762	5246
20°	3964	4401	5107
25°	3454	3997	4942
30°	2903	3555	4750
35°	2309	3090	4541
40°	1663	2596	4333
45°	985	2060	4080
50°	728	1466	3840
55°	617	906	3516
60°	503	731	3097
65°	393	676	2447
70°	334	584	1637
75°	309	508	662
80°	329	527	460
85°	395	790	521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4080 cd/sqm



TEST NUMBER: P1061817

CATALOG NUMBER: S125RDRP-S850D935-X4F0-XX-UDD-SVL-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	6.4
10°-20°	189.0	16.7
20°-30°	247.0	21.8
30°-40°	240.6	21.3
40°-50°	180.5	16.0
50°-60°	113.2	10.0
60°-70°	58.9	5.2
70°-80°	21.3	1.9
80°-90°	8.5	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°	508.0	44.9
0°-40°	748.6	66.2
0°-60°	1042.3	92.2
0°-90°	1131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	755	765	765	771	778	70
15°	624	642	668	709	736	174
25°	455	480	526	597	650	208
35°	275	304	368	466	540	171
45°	101	131	212	327	419	85
55°	51	54	76	198	293	46
65°	24	26	42	80	150	25
75°	12	16	19	20	25	13
85°	5	8	10	9	7	5
90°	0	0	0	0	0	



TEST NUMBER: P1061817

CATALOG NUMBER: S125RDRP-S850D935-X4F0-XX-UDD-SVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.8	780.8	780.8	780.8	780.8
2.5°	774.2	781.6	776.7	776.7	776.7
5°	755.1	765.0	765.0	770.8	777.5
7.5°	728.5	740.1	747.6	761.7	771.7
10°	697.0	711.1	725.2	748.4	761.7
12.5°	661.3	677.9	697.8	730.2	750.1
15°	624.0	642.2	668.0	709.4	736.0
17.5°	583.3	604.9	635.6	685.4	717.7
20°	541.0	562.6	600.7	657.2	697.0
22.5°	498.7	521.9	563.4	627.3	674.6
25°	454.7	479.6	526.1	597.4	650.5
27.5°	409.9	435.6	487.1	566.7	624.0
30°	365.1	391.6	447.2	533.5	597.4
32.5°	320.3	348.5	407.4	499.5	569.2
35°	274.7	303.7	367.6	465.5	540.2
37.5°	230.7	259.7	327.8	430.6	511.1
40°	185.0	216.6	288.8	395.8	482.1
42.5°	140.2	172.6	249.8	360.9	450.6
45°	101.2	131.1	211.6	326.9	419.0
47.5°	78.0	94.6	172.6	292.1	388.3
50°	68.0	73.0	136.9	259.7	358.5
52.5°	58.9	62.2	102.9	229.8	326.1
55°	51.4	53.9	75.5	197.5	292.9
57.5°	43.1	46.5	59.7	166.0	258.9
60°	36.5	38.2	53.1	136.9	224.9
62.5°	29.9	31.5	47.3	107.9	186.7
65°	24.1	25.7	41.5	79.7	150.2
67.5°	19.9	20.7	34.9	56.4	115.3
70°	16.6	17.4	29.0	39.0	81.3
72.5°	14.1	16.6	23.2	28.2	51.4
75°	11.6	15.8	19.1	19.9	24.9
77.5°	10.0	14.9	15.8	15.8	14.1
80°	8.3	12.4	13.3	12.4	11.6
82.5°	6.6	10.0	10.8	10.8	9.1
85°	5.0	8.3	10.0	9.1	6.6
87.5°	3.3	7.5	8.3	7.5	5.0
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1061817
 CATALOG NUMBER: S125RDRP-S850D935-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	5.76	7.12	6.13	7.43	7.74	15.38	16.73	15.74	17.04	17.36
	3H	6.62	7.82	7.00	8.15	8.51	16.22	17.42	16.59	17.75	18.11
	4H	7.04	8.16	7.45	8.51	8.90	16.29	17.41	16.69	17.76	18.14
	6H	7.47	8.50	7.89	8.87	9.26	16.27	17.30	16.69	17.67	18.06
	8H	7.65	8.63	8.08	9.02	9.42	16.26	17.24	16.69	17.63	18.03
	12H	7.81	8.74	8.24	9.13	9.56	16.25	17.18	16.68	17.56	17.99
4H	2H	6.73	7.85	7.13	8.20	8.58	15.24	16.36	15.64	16.71	17.09
	3H	7.78	8.69	8.19	9.10	9.50	16.15	17.06	16.56	17.47	17.87
	4H	8.34	9.16	8.77	9.58	10.02	16.25	17.07	16.68	17.49	17.93
	6H	8.94	9.65	9.40	10.09	10.56	16.28	16.99	16.74	17.43	17.90
	8H	9.18	9.84	9.64	10.28	10.75	16.28	16.94	16.75	17.39	17.86
	12H	9.40	9.99	9.89	10.47	10.94	16.29	16.88	16.78	17.36	17.83
8H	4H	8.81	9.47	9.28	9.92	10.39	16.17	16.84	16.64	17.28	17.75
	6H	9.62	10.16	10.12	10.66	11.14	16.23	16.77	16.73	17.27	17.75
	8H	10.00	10.49	10.52	11.00	11.50	16.26	16.75	16.78	17.26	17.75
	12H	10.40	10.83	10.91	11.32	11.89	16.33	16.75	16.84	17.25	17.82
12H	4H	8.86	9.45	9.35	9.93	10.40	16.14	16.73	16.63	17.21	17.68
	6H	9.75	10.23	10.27	10.75	11.24	16.20	16.68	16.72	17.20	17.69
	8H	10.24	10.67	10.75	11.16	11.73	16.27	16.70	16.78	17.19	17.76