

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: P1061807

Luminaire Tested: S125RDRP-S850D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061807
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-S850D930-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

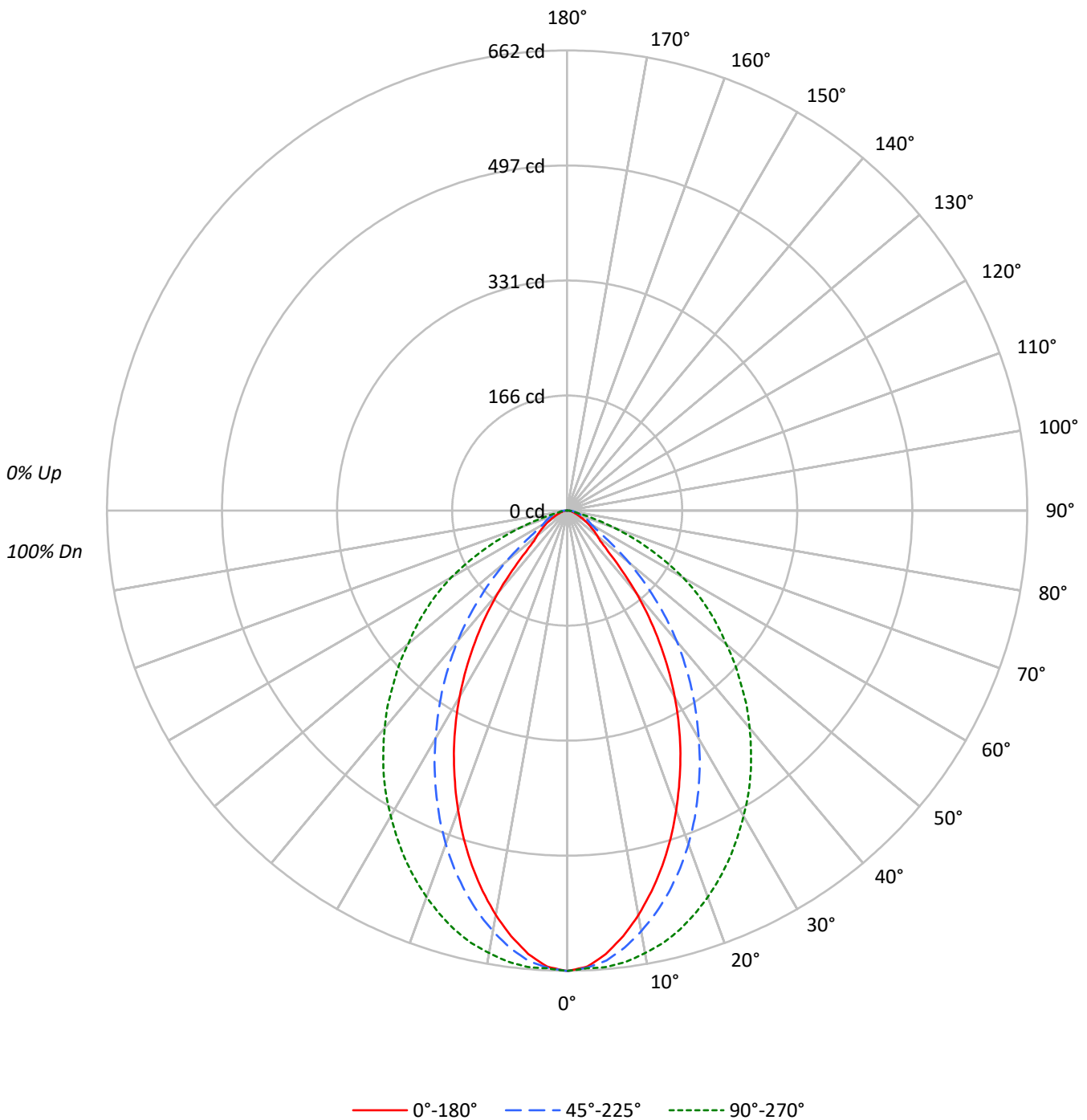
Lumens per Lamp: N/A
Luminaire Lumens: 956.3 lumens
Efficiency: N/A
Efficacy: 37.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (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

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Luminous Intensity Polar Plot



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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°	4560	4560	4560
5°	4425	4490	4555
10°	4131	4295	4520
15°	3769	4043	4452
20°	3362	3741	4335
25°	2930	3390	4196
30°	2461	3011	4035
35°	1942	2622	3870
40°	1391	2203	3672
45°	819	1728	3442
50°	606	1246	3197
55°	509	754	2971
60°	412	552	2651
65°	319	525	2124
70°	270	491	1439
75°	250	439	628
80°	250	436	404
85°	308	561	434

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3442 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	6.4
10°-20°	160.3	16.8
20°-30°	209.5	21.9
30°-40°	203.9	21.3
40°-50°	152.4	15.9
50°-60°	94.5	9.9
60°-70°	49.6	5.2
70°-80°	18.1	1.9
80°-90°	6.8	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°	430.8	45.1
0°-40°	634.8	66.4
0°-60°	881.7	92.2
0°-90°	956.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	640	649	650	654	659	60
15°	529	544	567	602	624	148
25°	386	405	446	507	552	176
35°	231	256	312	395	460	144
45°	84	110	178	277	354	71
55°	42	45	63	163	248	38
65°	20	21	32	69	130	20
75°	9	11	16	18	24	10
85°	4	7	7	7	6	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	662.3	662.3	662.3	662.3	662.3
2.5°	656.8	662.3	658.3	658.3	659.1
5°	640.3	648.9	649.7	653.6	659.1
7.5°	617.5	627.7	634.0	645.8	654.4
10°	590.8	602.5	614.3	634.0	646.5
12.5°	560.9	575.1	592.3	619.0	637.1
15°	528.7	544.4	567.2	601.8	624.5
17.5°	494.9	511.4	539.7	581.3	608.8
20°	458.8	476.9	510.6	557.8	591.6
22.5°	421.9	442.3	479.2	532.6	572.7
25°	385.7	405.4	446.2	506.7	552.3
27.5°	348.0	368.4	413.2	480.0	530.3
30°	309.5	331.5	378.7	452.5	507.5
32.5°	271.0	293.8	344.9	424.2	484.7
35°	231.0	256.1	311.9	395.2	460.4
37.5°	193.3	220.0	278.1	365.3	434.4
40°	154.8	182.3	245.1	336.2	408.5
42.5°	117.1	145.3	211.3	306.4	382.6
45°	84.1	110.0	177.5	277.3	353.5
47.5°	64.4	79.3	146.1	247.5	327.6
50°	56.6	61.3	116.3	218.4	298.5
52.5°	49.5	52.6	86.4	190.1	273.4
55°	42.4	44.8	62.8	163.4	247.5
57.5°	36.1	38.5	47.9	139.0	220.8
60°	29.9	32.2	40.1	114.7	192.5
62.5°	25.1	25.9	36.1	91.9	161.0
65°	19.6	21.2	32.2	69.1	130.4
67.5°	16.5	17.3	28.3	49.5	100.6
70°	13.4	14.1	24.4	34.6	71.5
72.5°	11.8	11.8	20.4	25.1	45.6
75°	9.4	11.0	16.5	18.1	23.6
77.5°	7.9	11.0	14.1	13.4	12.6
80°	6.3	10.2	11.0	11.0	10.2
82.5°	5.5	8.6	9.4	8.6	7.9
85°	3.9	7.1	7.1	7.1	5.5
87.5°	3.1	6.3	5.5	5.5	3.9
90°	0.0	0.0	0.0	0.0	0.0



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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	5.06	6.41	5.42	6.72	7.04	14.76	16.11	15.13	16.42	16.74
	3H	5.90	7.10	6.28	7.43	7.79	15.67	16.87	16.05	17.20	17.57
	4H	6.26	7.37	6.66	7.72	8.11	15.77	16.89	16.17	17.24	17.62
	6H	6.63	7.66	7.05	8.03	8.42	15.76	16.79	16.17	17.16	17.55
	8H	6.81	7.79	7.24	8.18	8.58	15.75	16.72	16.18	17.11	17.51
	12H	6.97	7.90	7.41	8.29	8.72	15.73	16.66	16.17	17.05	17.48
4H	2H	5.89	7.00	6.29	7.35	7.74	14.61	15.73	15.01	16.08	16.46
	3H	6.94	7.86	7.36	8.26	8.67	15.60	16.52	16.01	16.92	17.32
	4H	7.40	8.22	7.83	8.64	9.08	15.73	16.55	16.17	16.97	17.41
	6H	7.96	8.67	8.42	9.11	9.58	15.76	16.47	16.23	16.92	17.38
	8H	8.22	8.88	8.69	9.32	9.79	15.76	16.42	16.23	16.87	17.34
	12H	8.46	9.04	8.94	9.52	10.00	15.77	16.36	16.26	16.84	17.31
8H	4H	7.95	8.61	8.42	9.06	9.53	15.66	16.32	16.12	16.76	17.23
	6H	8.73	9.27	9.23	9.77	10.25	15.72	16.26	16.22	16.75	17.23
	8H	9.15	9.63	9.67	10.15	10.64	15.75	16.23	16.27	16.74	17.24
	12H	9.56	9.99	10.08	10.49	11.06	15.80	16.23	16.31	16.72	17.29
12H	4H	8.02	8.60	8.50	9.08	9.55	15.62	16.21	16.11	16.69	17.16
	6H	8.88	9.36	9.40	9.88	10.37	15.68	16.17	16.20	16.68	17.17
	8H	9.40	9.83	9.92	10.32	10.89	15.75	16.18	16.26	16.67	17.24