

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: P1061771

Luminaire Tested: S125RDRP-S850D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061771
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-S850D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

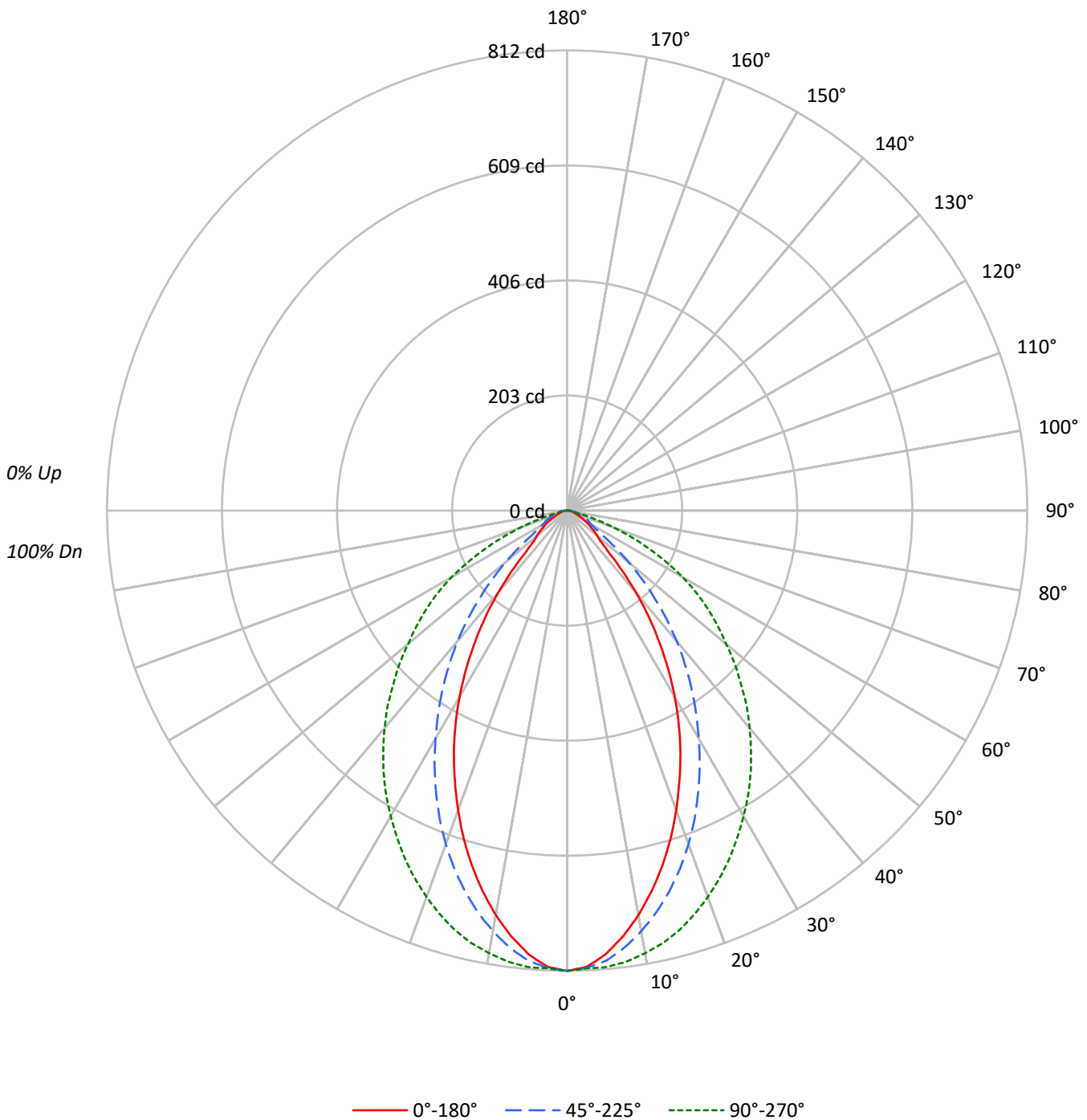
Lumens per Lamp: N/A
Luminaire Lumens: 1172.9 lumens
Efficiency: N/A
Efficacy: 45.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	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	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	87	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	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	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	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5593	5593	5593
5°	5428	5508	5587
10°	5066	5268	5544
15°	4623	4959	5460
20°	4123	4589	5317
25°	3594	4158	5146
30°	3018	3692	4949
35°	2381	3215	4746
40°	1706	2702	4504
45°	1004	2121	4222
50°	743	1527	3923
55°	624	926	3643
60°	504	676	3251
65°	393	644	2607
70°	330	602	1765
75°	309	537	769
80°	305	535	496
85°	379	687	529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4222 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	6.4
10°-20°	196.6	16.8
20°-30°	257.0	21.9
30°-40°	250.1	21.3
40°-50°	186.9	15.9
50°-60°	115.9	9.9
60°-70°	60.9	5.2
70°-80°	22.2	1.9
80°-90°	8.4	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°	528.4	45.1
0°-40°	778.5	66.4
0°-60°	1081.4	92.2
0°-90°	1172.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1172.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	785	796	797	802	808	73
15°	648	668	696	738	766	181
25°	473	497	547	622	677	216
35°	283	314	382	485	565	176
45°	103	135	218	340	434	87
55°	52	55	77	200	304	47
65°	24	26	40	85	160	25
75°	12	14	20	22	29	13
85°	5	9	9	9	7	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.3	812.3	812.3	812.3	812.3
2.5°	805.5	812.3	807.5	807.5	808.4
5°	785.3	795.9	796.9	801.7	808.4
7.5°	757.4	769.9	777.6	792.0	802.6
10°	724.6	739.1	753.5	777.6	793.0
12.5°	688.0	705.3	726.5	759.3	781.4
15°	648.5	667.7	695.7	738.1	766.0
17.5°	607.0	627.3	662.0	713.0	746.8
20°	562.7	584.9	626.3	684.1	725.6
22.5°	517.4	542.5	587.8	653.3	702.4
25°	473.1	497.2	547.3	621.5	677.4
27.5°	426.9	451.9	506.8	588.7	650.4
30°	379.6	406.6	464.4	555.0	622.5
32.5°	332.4	360.4	423.0	520.3	594.5
35°	283.3	314.1	382.5	484.7	564.6
37.5°	237.0	269.8	341.1	448.1	532.9
40°	189.8	223.5	300.6	412.4	501.1
42.5°	143.6	178.3	259.2	375.8	469.3
45°	103.1	134.9	217.8	340.1	433.6
47.5°	79.0	97.3	179.2	303.5	401.8
50°	69.4	75.2	142.6	267.9	366.2
52.5°	60.7	64.6	106.0	233.2	335.3
55°	52.0	54.9	77.1	200.4	303.5
57.5°	44.3	47.2	58.8	170.6	270.8
60°	36.6	39.5	49.1	140.7	236.1
62.5°	30.8	31.8	44.3	112.7	197.5
65°	24.1	26.0	39.5	84.8	160.0
67.5°	20.2	21.2	34.7	60.7	123.3
70°	16.4	17.3	29.9	42.4	87.7
72.5°	14.5	14.5	25.1	30.8	55.9
75°	11.6	13.5	20.2	22.2	28.9
77.5°	9.6	13.5	17.3	16.4	15.4
80°	7.7	12.5	13.5	13.5	12.5
82.5°	6.7	10.6	11.6	10.6	9.6
85°	4.8	8.7	8.7	8.7	6.7
87.5°	3.9	7.7	6.7	6.7	4.8
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	5.77	7.11	6.13	7.43	7.74	15.47	16.82	15.84	17.14	17.45
	3H	6.60	7.80	6.98	8.13	8.50	16.39	17.58	16.76	17.91	18.28
	4H	6.97	8.08	7.37	8.43	8.82	16.48	17.60	16.89	17.95	18.33
	6H	7.34	8.36	7.75	8.73	9.13	16.47	17.50	16.88	17.87	18.26
	8H	7.52	8.49	7.95	8.88	9.28	16.46	17.43	16.89	17.82	18.22
	12H	7.68	8.61	8.11	8.99	9.42	16.44	17.37	16.87	17.76	18.19
4H	2H	6.59	7.71	7.00	8.06	8.44	15.32	16.44	15.73	16.79	17.17
	3H	7.65	8.57	8.07	8.97	9.37	16.31	17.23	16.73	17.63	18.03
	4H	8.11	8.93	8.54	9.35	9.79	16.44	17.26	16.88	17.68	18.12
	6H	8.67	9.37	9.13	9.82	10.28	16.47	17.18	16.94	17.63	18.09
	8H	8.92	9.58	9.39	10.03	10.50	16.47	17.13	16.94	17.58	18.05
	12H	9.16	9.75	9.65	10.23	10.70	16.48	17.07	16.97	17.55	18.02
8H	4H	8.66	9.32	9.13	9.77	10.24	16.37	17.03	16.83	17.47	17.94
	6H	9.44	9.98	9.94	10.48	10.96	16.43	16.97	16.93	17.46	17.94
	8H	9.86	10.34	10.38	10.86	11.35	16.46	16.94	16.98	17.45	17.95
	12H	10.27	10.70	10.79	11.20	11.77	16.51	16.94	17.02	17.43	18.00
12H	4H	8.73	9.31	9.21	9.79	10.26	16.33	16.92	16.82	17.40	17.87
	6H	9.59	10.07	10.11	10.58	11.08	16.39	16.88	16.91	17.39	17.88
	8H	10.11	10.54	10.63	11.04	11.61	16.46	16.89	16.97	17.38	17.95