

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: P1061762

Luminaire Tested: S125RDRP-S850D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061762
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-S850D830-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, 80 CRI LEDS
Ballast/Driver: -

Summary

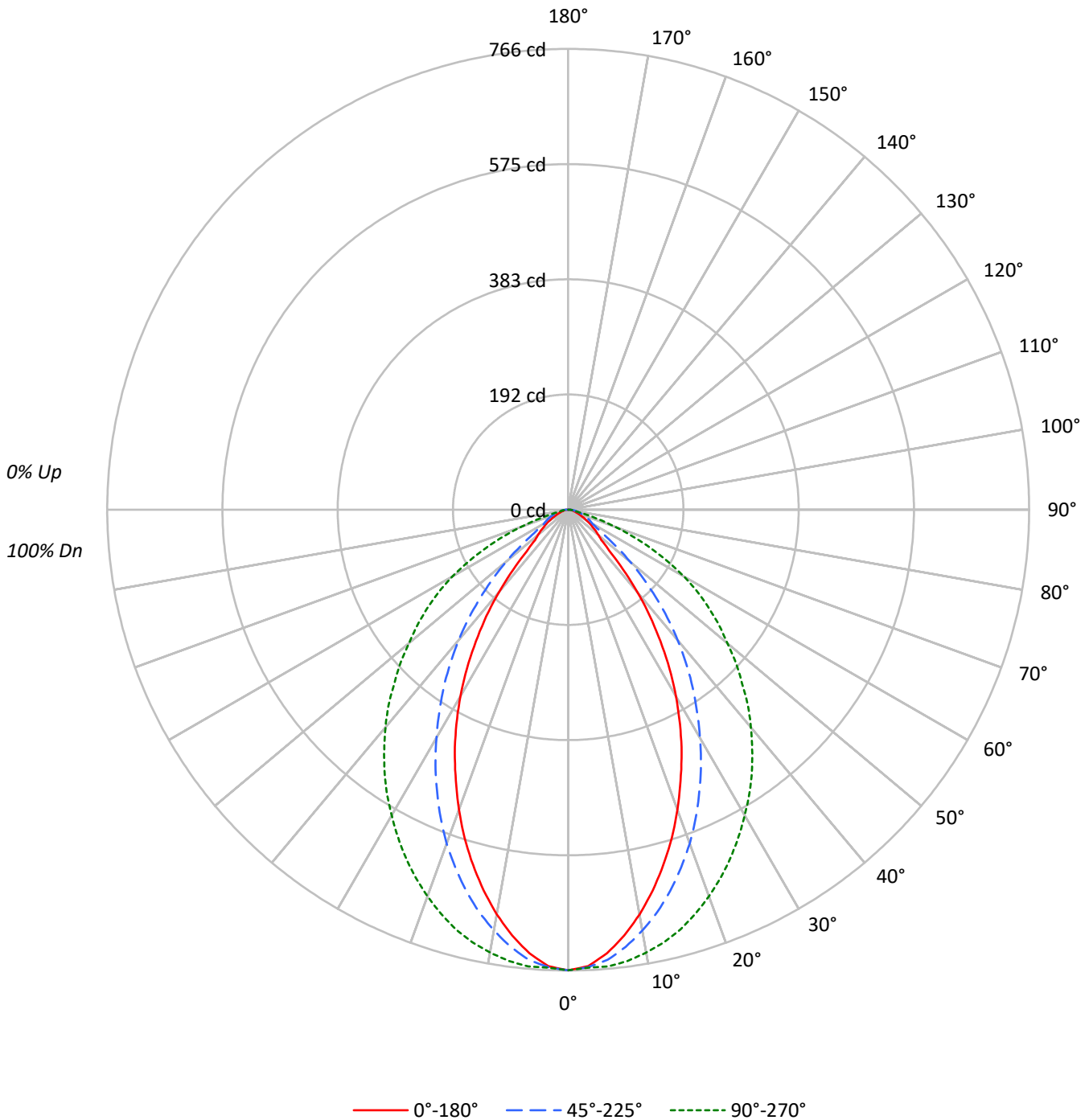
Lumens per Lamp: N/A
Luminaire Lumens: 1105.5 lumens
Efficiency: N/A
Efficacy: 42.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	5271	5271	5271
5°	5116	5191	5267
10°	4775	4965	5225
15°	4357	4674	5147
20°	3886	4325	5011
25°	3388	3919	4851
30°	2845	3481	4664
35°	2244	3031	4473
40°	1608	2547	4245
45°	946	1999	3980
50°	701	1440	3697
55°	588	873	3434
60°	475	638	3064
65°	370	606	2457
70°	310	568	1663
75°	290	508	724
80°	289	504	468
85°	355	648	506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3980 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	6.4
10°-20°	185.3	16.8
20°-30°	242.2	21.9
30°-40°	235.8	21.3
40°-50°	176.2	15.9
50°-60°	109.3	9.9
60°-70°	57.4	5.2
70°-80°	20.9	1.9
80°-90°	7.9	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°	498.1	45.1
0°-40°	733.8	66.4
0°-60°	1019.3	92.2
0°-90°	1105.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1105.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	740	750	751	756	762	69
15°	611	629	656	696	722	171
25°	446	469	516	586	638	204
35°	267	296	361	457	532	166
45°	97	127	205	321	409	82
55°	49	52	73	189	286	44
65°	23	24	37	80	151	24
75°	11	13	19	21	27	12
85°	4	8	8	8	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.6	765.6	765.6	765.6	765.6
2.5°	759.3	765.6	761.1	761.1	762.0
5°	740.2	750.2	751.1	755.6	762.0
7.5°	713.8	725.7	732.9	746.5	756.5
10°	683.0	696.6	710.2	732.9	747.4
12.5°	648.5	664.8	684.8	715.7	736.5
15°	611.2	629.4	655.7	695.7	722.0
17.5°	572.2	591.2	623.9	672.1	703.9
20°	530.4	551.3	590.3	644.8	683.9
22.5°	487.7	511.3	554.0	615.8	662.1
25°	445.9	468.6	515.9	585.8	638.5
27.5°	402.3	425.9	477.7	554.9	613.0
30°	357.8	383.3	437.8	523.1	586.7
32.5°	313.3	339.7	398.7	490.4	560.4
35°	267.0	296.1	360.6	456.8	532.2
37.5°	223.4	254.3	321.5	422.3	502.2
40°	178.9	210.7	283.4	388.7	472.3
42.5°	135.3	168.0	244.3	354.2	442.3
45°	97.2	127.1	205.3	320.6	408.7
47.5°	74.5	91.7	168.9	286.1	378.7
50°	65.4	70.8	134.4	252.5	345.1
52.5°	57.2	60.8	99.9	219.8	316.1
55°	49.0	51.8	72.7	188.9	286.1
57.5°	41.8	44.5	55.4	160.8	255.2
60°	34.5	37.2	46.3	132.6	222.5
62.5°	29.1	30.0	41.8	106.3	186.2
65°	22.7	24.5	37.2	79.9	150.8
67.5°	19.1	20.0	32.7	57.2	116.2
70°	15.4	16.3	28.2	40.0	82.6
72.5°	13.6	13.6	23.6	29.1	52.7
75°	10.9	12.7	19.1	20.9	27.2
77.5°	9.1	12.7	16.3	15.4	14.5
80°	7.3	11.8	12.7	12.7	11.8
82.5°	6.4	10.0	10.9	10.0	9.1
85°	4.5	8.2	8.2	8.2	6.4
87.5°	3.6	7.3	6.4	6.4	4.5
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	5.56	6.91	5.93	7.22	7.54	15.27	16.62	15.63	16.93	17.25
	3H	6.40	7.60	6.78	7.93	8.29	16.18	17.38	16.56	17.71	18.07
	4H	6.76	7.88	7.16	8.23	8.61	16.28	17.39	16.68	17.74	18.13
	6H	7.13	8.16	7.55	8.53	8.92	16.26	17.29	16.68	17.66	18.05
	8H	7.32	8.29	7.75	8.68	9.08	16.25	17.22	16.68	17.61	18.02
	12H	7.48	8.41	7.91	8.79	9.22	16.24	17.17	16.67	17.55	17.98
4H	2H	6.39	7.51	6.79	7.86	8.24	15.12	16.24	15.52	16.59	16.97
	3H	7.45	8.36	7.86	8.76	9.17	16.11	17.02	16.52	17.42	17.83
	4H	7.90	8.72	8.34	9.14	9.58	16.24	17.05	16.67	17.47	17.91
	6H	8.46	9.17	8.92	9.61	10.08	16.27	16.97	16.73	17.42	17.89
	8H	8.72	9.38	9.19	9.83	10.30	16.27	16.93	16.74	17.37	17.84
	12H	8.96	9.55	9.45	10.03	10.50	16.28	16.86	16.76	17.34	17.82
8H	4H	8.46	9.12	8.92	9.56	10.03	16.16	16.82	16.63	17.27	17.74
	6H	9.24	9.77	9.74	10.27	10.75	16.22	16.76	16.72	17.26	17.74
	8H	9.65	10.14	10.18	10.65	11.14	16.25	16.73	16.77	17.25	17.74
	12H	10.07	10.50	10.59	10.99	11.56	16.30	16.73	16.82	17.23	17.80
12H	4H	8.52	9.10	9.00	9.58	10.06	16.13	16.71	16.61	17.19	17.67
	6H	9.38	9.86	9.90	10.38	10.87	16.19	16.67	16.71	17.18	17.68
	8H	9.91	10.34	10.42	10.83	11.40	16.25	16.68	16.77	17.17	17.74