

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: P1061830

Luminaire Tested: S125RDRP-S850D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S850D950-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

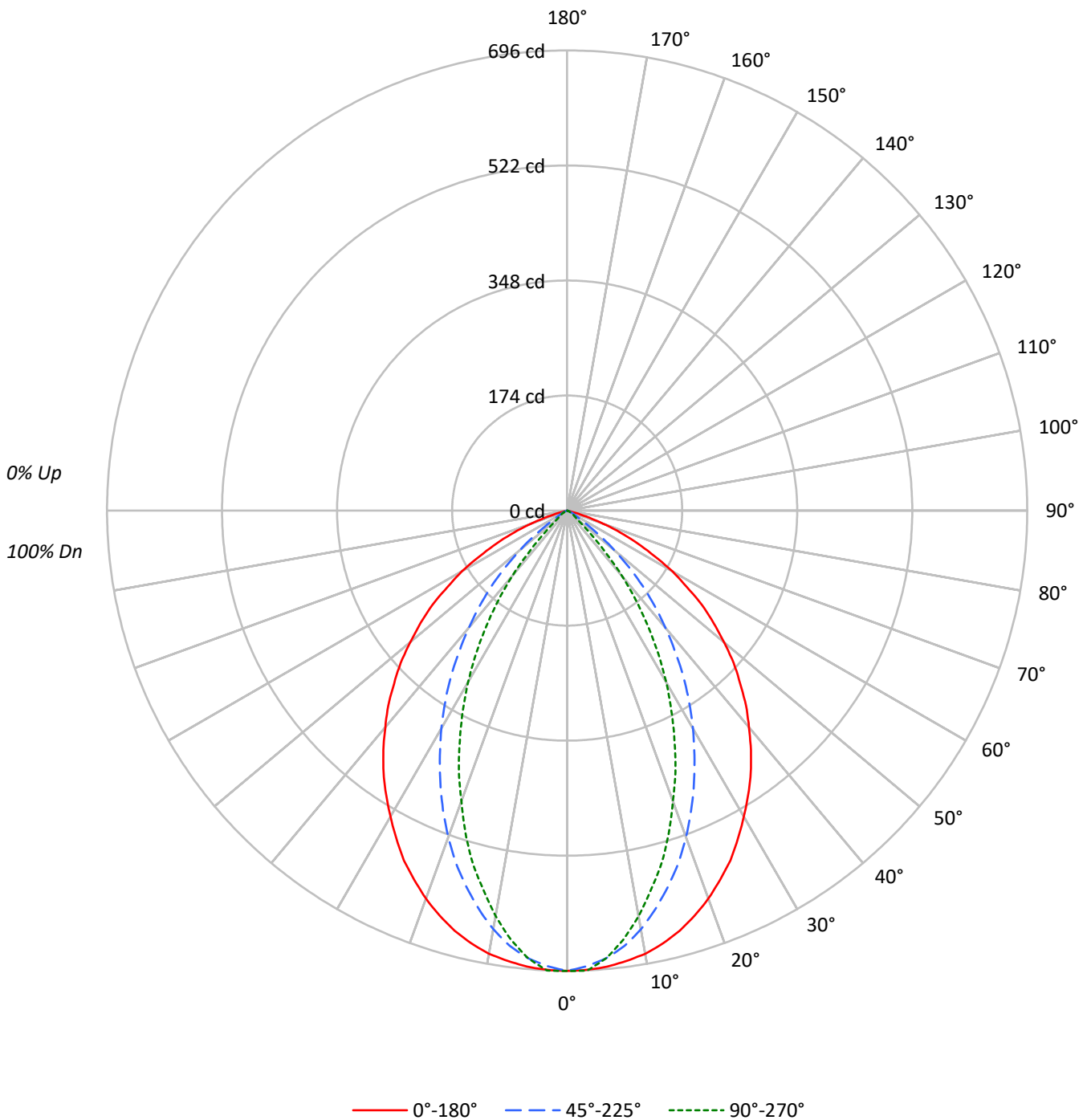
Lumens per Lamp: N/A
Luminaire Lumens: 899.5 lumens
Efficiency: N/A
Efficacy: 34.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4794	4794	4794
5°	4787	4698	4698
10°	4758	4496	4354
15°	4688	4197	3935
20°	4577	3850	3425
25°	4438	3448	2917
30°	4250	3024	2380
35°	4069	2579	1784
40°	3847	2081	1156
45°	3605	1575	500
50°	3316	1004	187
55°	2988	441	132
60°	2530	190	88
65°	1916	119	46
70°	1166	56	18
75°	245	24	24
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3605 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	7.1
10°-20°	167.3	18.6
20°-30°	214.8	23.9
30°-40°	202.2	22.5
40°-50°	141.4	15.7
50°-60°	75.5	8.4
60°-70°	30.1	3.3
70°-80°	3.9	0.4
80°-90°	0.0	0.0
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°	446.3	49.6
0°-40°	648.5	72.1
0°-60°	865.5	96.2
0°-90°	899.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	899.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	693	691	680	682	680	66
15°	658	637	589	561	552	185
25°	584	533	454	404	384	268
35°	484	407	307	237	212	302
45°	370	277	162	78	51	286
55°	249	152	37	13	11	221
65°	118	47	7	4	3	117
75°	9	3	1	1	1	18
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.3	696.3	696.3	696.3	696.3
2.5°	695.3	696.3	689.8	695.3	696.3
5°	692.6	690.8	679.7	681.6	679.7
7.5°	687.1	682.5	664.1	657.7	654.0
10°	680.6	670.5	643.0	629.2	622.8
12.5°	670.5	655.8	617.3	596.1	587.0
15°	657.7	636.6	588.8	561.2	552.0
17.5°	642.1	614.5	559.4	525.4	511.6
20°	624.6	587.9	525.4	485.0	467.5
22.5°	604.4	562.2	490.5	445.5	428.0
25°	584.2	532.8	453.8	404.2	384.0
27.5°	559.4	502.4	417.0	363.7	341.7
30°	534.6	472.1	380.3	322.4	299.4
32.5°	509.8	440.0	343.5	279.2	256.3
35°	484.1	406.9	306.8	237.0	212.2
37.5°	456.5	373.9	267.3	196.6	170.9
40°	428.0	341.7	231.5	157.1	128.6
42.5°	400.5	309.6	195.7	118.5	87.3
45°	370.2	277.4	161.7	78.1	51.4
47.5°	341.7	246.2	126.8	45.0	26.6
50°	309.6	214.0	93.7	23.9	17.5
52.5°	279.2	182.8	62.5	15.6	13.8
55°	248.9	152.5	36.7	12.9	11.0
57.5°	214.0	123.1	20.2	10.1	8.3
60°	183.7	96.4	13.8	7.3	6.4
62.5°	148.8	70.7	10.1	5.5	4.6
65°	117.6	46.8	7.3	3.7	2.8
67.5°	87.3	27.6	4.6	1.8	1.8
70°	57.9	14.7	2.8	0.9	0.9
72.5°	30.3	6.4	1.8	0.9	0.9
75°	9.2	2.8	0.9	0.9	0.9
77.5°	0.0	0.9	0.0	0.0	0.9
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	14.39	15.65	14.75	15.97	16.28	0.00	0.00	0.00	0.00	0.00
	3H	14.97	16.09	15.35	16.42	16.78	0.00	0.00	0.00	0.00	0.00
	4H	14.94	15.97	15.34	16.32	16.71	0.00	0.00	0.00	0.00	0.00
	6H	14.85	15.80	15.27	16.17	16.56	0.00	0.00	0.00	0.00	0.00
	8H	14.81	15.70	15.24	16.09	16.50	0.00	0.00	0.00	0.00	0.00
	12H	14.76	15.61	15.19	16.00	16.43	0.00	0.00	0.00	0.00	0.00
4H	2H	14.16	15.19	14.57	15.55	15.93	0.00	0.00	0.00	0.00	0.00
	3H	14.76	15.59	15.17	16.00	16.40	0.00	0.00	0.00	0.00	0.00
	4H	14.70	15.45	15.14	15.87	16.31	0.00	0.00	0.00	0.00	0.00
	6H	14.62	15.25	15.08	15.70	16.17	0.00	0.00	0.00	0.00	0.00
	8H	14.56	15.15	15.03	15.60	16.07	0.00	0.00	0.00	0.00	0.00
	12H	14.51	15.03	14.99	15.51	15.99	0.00	0.00	0.00	0.00	0.00
8H	4H	14.56	15.15	15.03	15.60	16.07	0.00	0.00	0.00	0.00	0.00
	6H	14.45	14.93	14.96	15.43	15.91	0.00	0.00	0.00	0.00	0.00
	8H	14.38	14.82	14.91	15.33	15.83	0.00	0.00	0.00	0.00	0.00
	12H	14.34	14.72	14.85	15.21	15.79	0.00	0.00	0.00	0.00	0.00
12H	4H	14.51	15.03	14.99	15.51	15.99	0.00	0.00	0.00	0.00	0.00
	6H	14.38	14.82	14.91	15.33	15.83	0.00	0.00	0.00	0.00	0.00
	8H	14.34	14.72	14.85	15.21	15.79	0.00	0.00	0.00	0.00	0.00