

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: P1061678

Luminaire Tested: S125RDRP-S610D830-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D830-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

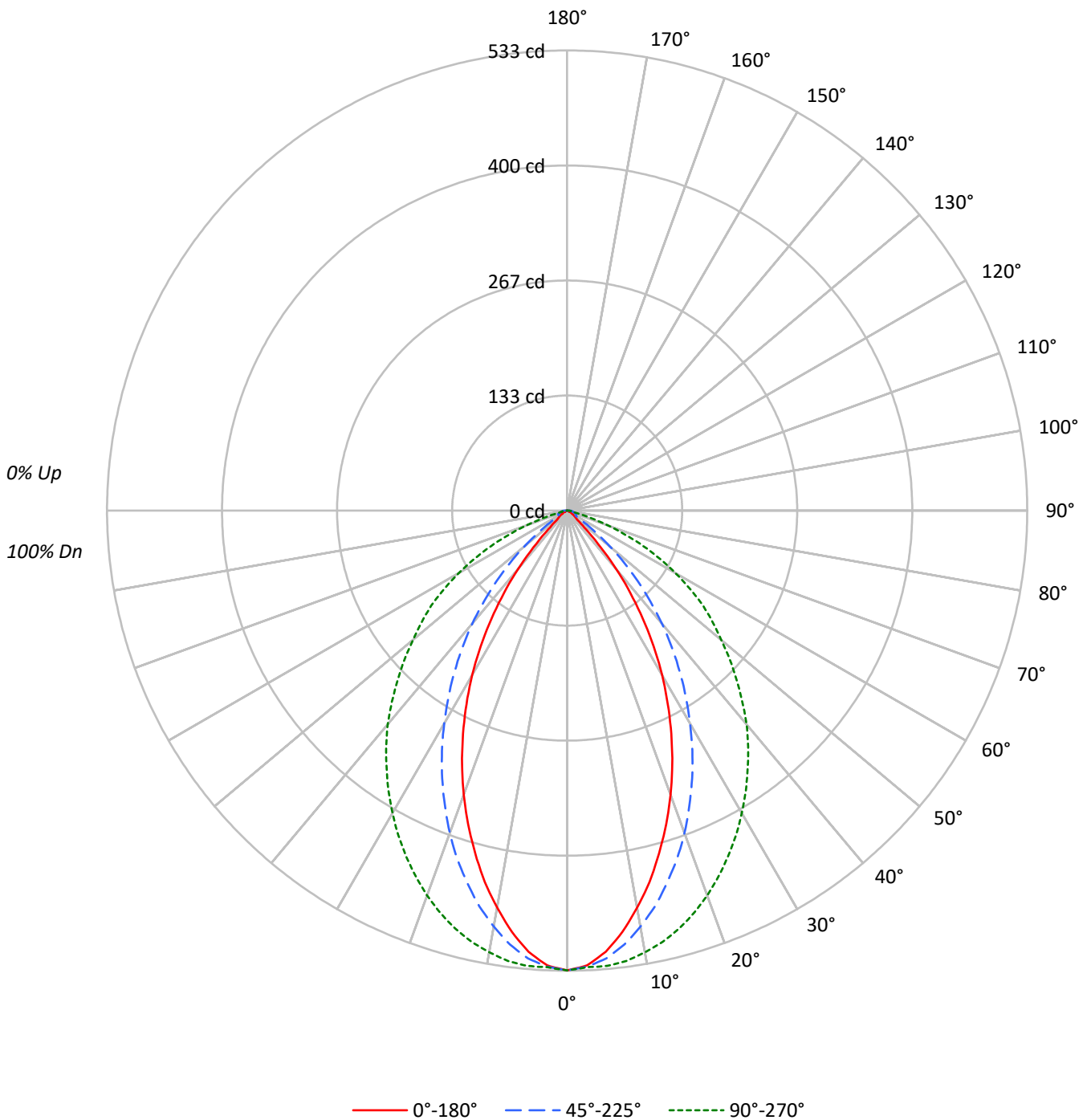
Lumens per Lamp: N/A
Luminaire Lumens: 685.1 lumens
Efficiency: N/A
Efficacy: 35.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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: P1061678

CATALOG NUMBER: S125RDRP-S610D830-X4F0-XX-UDD-BVL-S

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3667	3667	3667
5°	3546	3600	3659
10°	3265	3421	3632
15°	2932	3184	3573
20°	2567	2913	3475
25°	2167	2601	3354
30°	1747	2263	3218
35°	1284	1908	3065
40°	802	1539	2907
45°	300	1124	2702
50°	140	703	2495
55°	102	292	2307
60°	72	154	1997
65°	42	182	1582
70°	40	211	1005
75°	53	210	314
80°	79	262	234
85°	158	411	308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2702 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	7.1
10°-20°	126.4	18.5
20°-30°	161.1	23.5
30°-40°	149.9	21.9
40°-50°	102.7	15.0
50°-60°	56.6	8.3
60°-70°	26.8	3.9
70°-80°	8.4	1.2
80°-90°	4.3	0.6
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°	336.4	49.1
0°-40°	486.3	71.0
0°-60°	645.6	94.2
0°-90°	685.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	533	533	533	533	533	
5°	513	520	521	525	529	47
15°	411	424	447	480	501	115
25°	285	303	342	398	442	130
35°	153	174	227	302	365	95
45°	31	52	115	205	278	29
55°	8	10	24	114	192	8
65°	3	3	11	42	97	3
75°	2	3	8	8	12	2
85°	2	5	5	5	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	532.6	532.6	532.6	532.6	532.6
2.5°	527.4	532.6	528.7	528.7	529.4
5°	513.0	519.5	520.8	524.8	529.4
7.5°	492.0	500.5	507.1	518.2	526.1
10°	467.0	477.5	489.3	507.7	519.5
12.5°	440.8	452.0	469.7	495.2	511.6
15°	411.3	424.4	446.7	480.2	501.2
17.5°	381.1	395.5	423.1	462.4	488.7
20°	350.3	365.4	397.5	441.5	474.3
22.5°	318.1	334.5	370.0	419.8	458.5
25°	285.3	303.1	342.4	397.5	441.5
27.5°	252.5	270.9	314.2	374.6	423.7
30°	219.7	238.8	284.7	350.9	404.7
32.5°	186.3	207.3	255.8	327.3	385.0
35°	152.8	174.5	227.0	301.7	364.7
37.5°	120.0	142.3	198.8	277.5	344.4
40°	89.2	111.5	171.2	253.2	323.4
42.5°	57.7	81.3	142.3	228.3	300.4
45°	30.8	51.8	115.4	204.7	277.5
47.5°	16.4	27.6	89.9	181.0	255.8
50°	13.1	15.1	65.6	157.4	232.9
52.5°	10.5	11.8	42.0	133.2	212.5
55°	8.5	9.8	24.3	114.1	192.2
57.5°	6.6	7.9	13.8	95.1	168.6
60°	5.2	5.9	11.2	76.1	145.0
62.5°	3.3	4.6	11.2	59.0	121.4
65°	2.6	3.3	11.2	42.0	97.1
67.5°	2.6	2.6	11.2	27.6	72.8
70°	2.0	2.0	10.5	17.7	49.9
72.5°	2.0	2.0	9.2	11.8	28.9
75°	2.0	3.3	7.9	8.5	11.8
77.5°	2.0	5.2	7.2	7.2	6.6
80°	2.0	5.2	6.6	5.9	5.9
82.5°	2.0	5.2	5.2	5.2	4.6
85°	2.0	4.6	5.2	4.6	3.9
87.5°	2.0	4.6	4.6	4.6	2.6
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	0.00	0.00	0.00	0.00	0.00	13.56	14.84	13.92	15.16	15.47
	3H	0.00	0.00	0.00	0.00	0.00	14.35	15.48	14.73	15.81	16.18
	4H	0.00	0.00	0.00	0.00	0.00	14.37	15.43	14.78	15.78	16.17
	6H	0.00	0.00	0.00	0.00	0.00	14.33	15.30	14.74	15.67	16.07
	8H	0.00	0.00	0.00	0.00	0.00	14.31	15.23	14.74	15.62	16.02
	12H	0.00	0.00	0.00	0.00	0.41	14.29	15.17	14.72	15.55	15.98
4H	2H	0.00	0.00	0.00	0.00	0.00	13.34	14.40	13.75	14.75	15.14
	3H	0.00	0.00	0.00	0.00	0.00	14.17	15.03	14.58	15.44	15.84
	4H	0.00	0.00	0.00	0.03	0.48	14.21	14.98	14.64	15.40	15.84
	6H	0.32	0.98	0.78	1.43	1.90	14.19	14.86	14.66	15.30	15.77
	8H	1.06	1.68	1.53	2.13	2.60	14.18	14.80	14.65	15.24	15.72
	12H	1.81	2.36	2.30	2.84	3.31	14.18	14.72	14.66	15.21	15.68
8H	4H	0.87	1.49	1.34	1.93	2.41	14.09	14.71	14.56	15.16	15.63
	6H	2.60	3.10	3.10	3.60	4.08	14.09	14.60	14.60	15.10	15.58
	8H	3.54	3.99	4.06	4.51	5.00	14.10	14.55	14.62	15.07	15.56
	12H	4.48	4.88	5.00	5.38	5.95	14.14	14.54	14.66	15.04	15.61
12H	4H	1.17	1.71	1.66	2.20	2.67	14.05	14.60	14.54	15.08	15.55
	6H	3.05	3.50	3.57	4.02	4.51	14.05	14.50	14.57	15.02	15.51
	8H	4.17	4.57	4.69	5.07	5.64	14.09	14.49	14.60	14.98	15.56