

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: P1061684

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D830-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

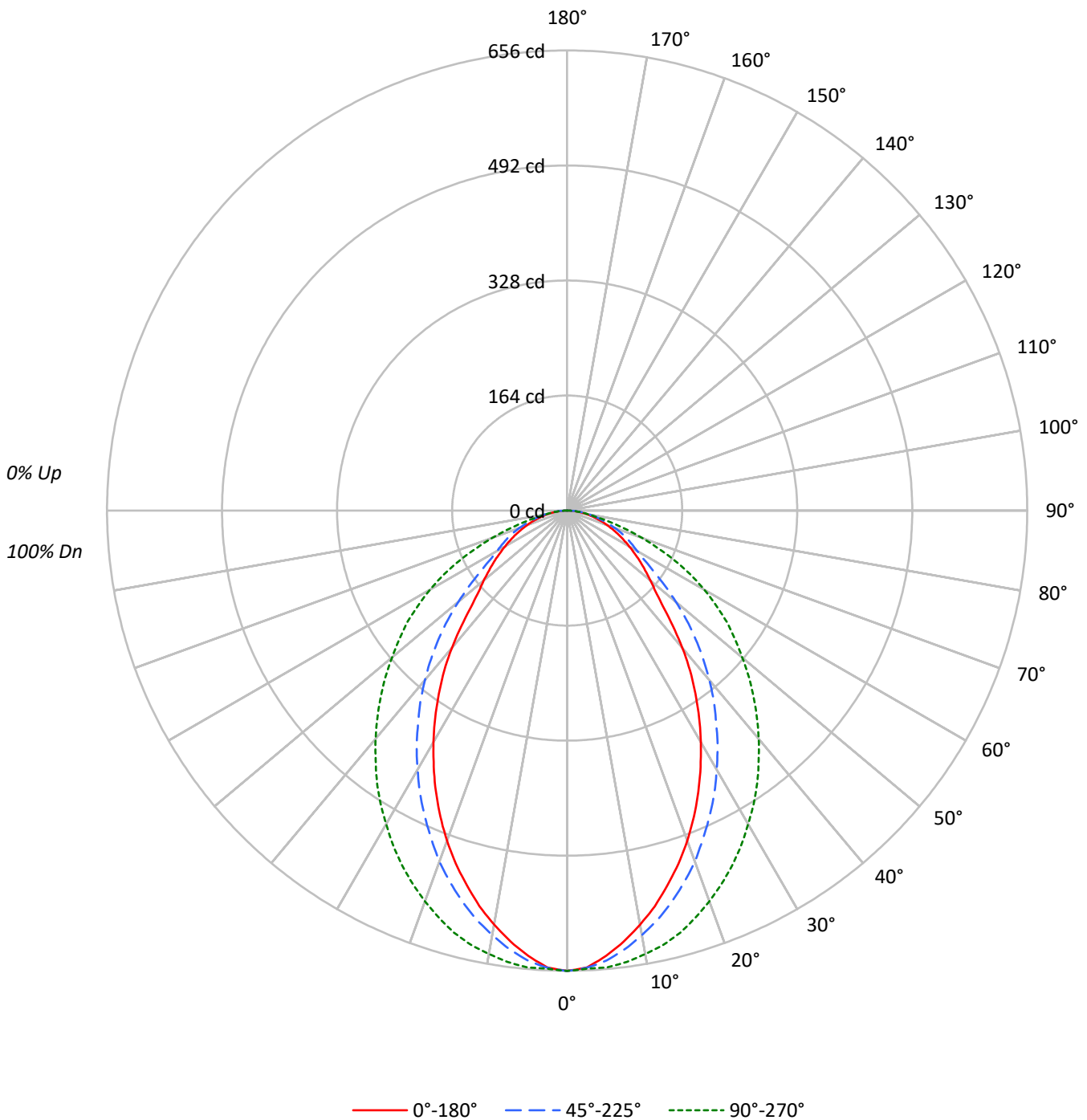
Lumens per Lamp: N/A
Luminaire Lumens: 1230.4 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (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	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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86																												
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74																												
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64																												
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56																												
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50																												
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44																												
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40																												
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36																												
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33																												
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4519	4519	4519
5°	4405	4450	4518
10°	4190	4296	4488
15°	3940	4113	4440
20°	3671	3901	4343
25°	3362	3651	4234
30°	3029	3388	4102
35°	2679	3114	3974
40°	2298	2835	3819
45°	1877	2522	3658
50°	1665	2164	3491
55°	1527	1795	3346
60°	1409	1589	3115
65°	1315	1528	2778
70°	1228	1451	2271
75°	1133	1359	1673
80°	1067	1273	1221
85°	987	1240	1035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3658 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	4.9
10°-20°	163.6	13.3
20°-30°	224.9	18.3
30°-40°	238.3	19.4
40°-50°	208.0	16.9
50°-60°	158.0	12.8
60°-70°	105.9	8.6
70°-80°	54.6	4.4
80°-90°	16.4	1.3
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°	449.2	36.5
0°-40°	687.5	55.9
0°-60°	1053.6	85.6
0°-90°	1230.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1230.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	656	656	656	656	656	
5°	637	644	644	648	654	60
15°	553	563	577	603	623	155
25°	443	456	481	521	557	203
35°	319	337	370	423	473	199
45°	193	212	259	321	376	152
55°	127	131	150	220	279	114
65°	81	83	94	125	170	80
75°	43	45	51	54	63	46
85°	12	16	16	14	13	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	656.3	656.3	656.3	656.3	656.3
2.5°	651.8	656.3	652.4	652.4	653.7
5°	637.3	643.9	643.9	648.5	653.7
7.5°	619.6	626.8	630.8	641.3	649.1
10°	599.3	607.2	614.4	630.1	641.9
12.5°	577.7	586.2	597.3	617.7	634.1
15°	552.7	563.2	577.0	602.6	622.9
17.5°	527.8	538.3	555.4	585.5	608.5
20°	501.0	512.1	532.4	565.2	592.7
22.5°	472.1	484.6	506.2	543.6	575.7
25°	442.6	456.4	480.6	520.6	557.3
27.5°	411.8	428.2	454.4	497.0	537.7
30°	381.0	397.4	426.2	472.8	516.0
32.5°	350.1	367.8	399.3	448.5	495.0
35°	318.7	337.0	370.5	422.9	472.8
37.5°	287.8	306.2	343.6	398.0	448.5
40°	255.7	274.7	315.4	372.4	424.9
42.5°	222.9	243.3	287.2	346.2	400.6
45°	192.8	211.8	259.0	320.6	375.7
47.5°	170.5	182.9	230.8	294.4	351.5
50°	155.4	162.0	202.0	268.8	325.9
52.5°	140.3	145.6	175.1	242.6	301.6
55°	127.2	131.1	149.5	219.7	278.7
57.5°	114.1	118.0	129.8	196.7	251.8
60°	102.3	105.6	115.4	172.4	226.2
62.5°	91.1	93.8	104.3	149.5	198.7
65°	80.7	82.6	93.8	125.2	170.5
67.5°	70.2	72.1	83.3	102.3	140.3
70°	61.0	61.6	72.1	83.3	112.8
72.5°	51.8	52.5	61.0	67.5	86.6
75°	42.6	45.2	51.1	54.4	62.9
77.5°	34.8	38.0	41.3	42.6	42.6
80°	26.9	30.8	32.1	32.1	30.8
82.5°	19.7	22.9	23.6	22.3	21.0
85°	12.5	15.7	15.7	14.4	13.1
87.5°	5.9	8.5	8.5	7.9	5.9
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	11.85	13.34	12.21	13.66	13.97	15.78	17.27	16.14	17.59	17.90
	3H	13.42	14.76	13.80	15.09	15.45	17.20	18.54	17.57	18.87	19.23
	4H	14.03	15.29	14.43	15.64	16.02	17.61	18.87	18.01	19.22	19.60
	6H	14.53	15.69	14.94	16.06	16.45	17.83	18.99	18.24	19.36	19.75
	8H	14.70	15.81	15.13	16.20	16.60	17.89	18.99	18.31	19.38	19.78
	12H	14.82	15.88	15.26	16.27	16.70	17.92	18.98	18.35	19.36	19.79
4H	2H	12.58	13.84	12.98	14.19	14.57	15.90	17.16	16.30	17.51	17.89
	3H	14.36	15.41	14.77	15.81	16.21	17.51	18.56	17.92	18.96	19.36
	4H	15.10	16.04	15.53	16.45	16.89	18.04	18.98	18.47	19.39	19.83
	6H	15.73	16.55	16.19	17.00	17.46	18.38	19.20	18.84	19.64	20.10
	8H	15.96	16.73	16.43	17.17	17.64	18.48	19.24	18.94	19.69	20.16
	12H	16.14	16.82	16.62	17.30	17.77	18.55	19.23	19.03	19.71	20.18
8H	4H	15.50	16.26	15.96	16.71	17.17	18.14	18.91	18.61	19.35	19.82
	6H	16.28	16.92	16.78	17.41	17.89	18.58	19.21	19.08	19.71	20.18
	8H	16.61	17.18	17.12	17.69	18.17	18.74	19.31	19.26	19.82	20.31
	12H	16.88	17.38	17.39	17.88	18.44	18.88	19.38	19.39	19.87	20.43
12H	4H	15.54	16.22	16.02	16.70	17.17	18.14	18.83	18.63	19.31	19.78
	6H	16.37	16.94	16.88	17.45	17.93	18.60	19.17	19.11	19.68	20.16
	8H	16.76	17.26	17.27	17.76	18.32	18.81	19.31	19.32	19.80	20.37