

Scaled data based on original data using
LM-79-2019 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: S125RDR-S610D830-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S125RDR-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

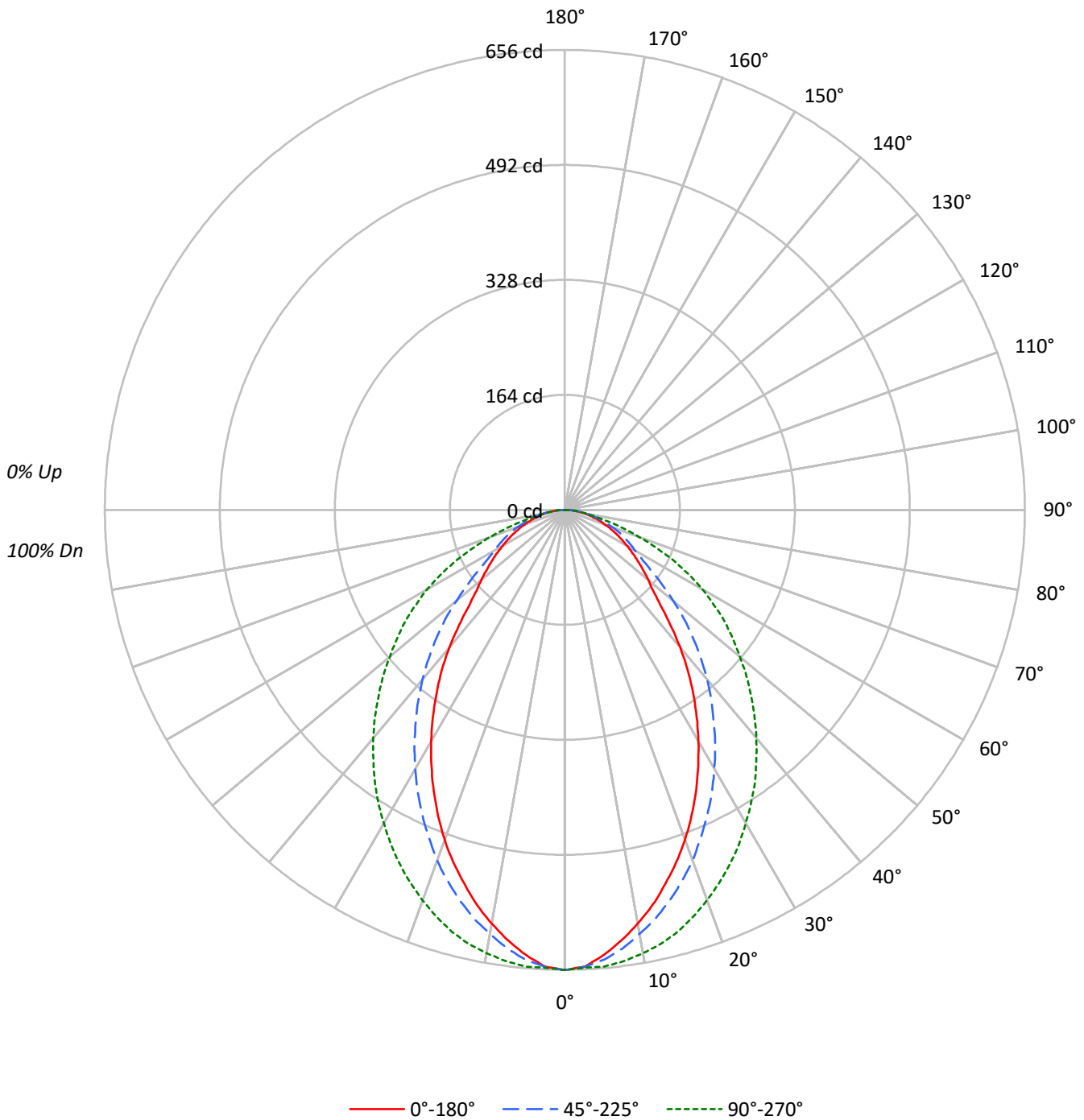
Lumens per Lamp: N/A
Luminaire Lumens: 1230.4 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44				44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30				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

(END OF REPORT)