

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: P1061715

Luminaire Tested: S125RDR-S610D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D927-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

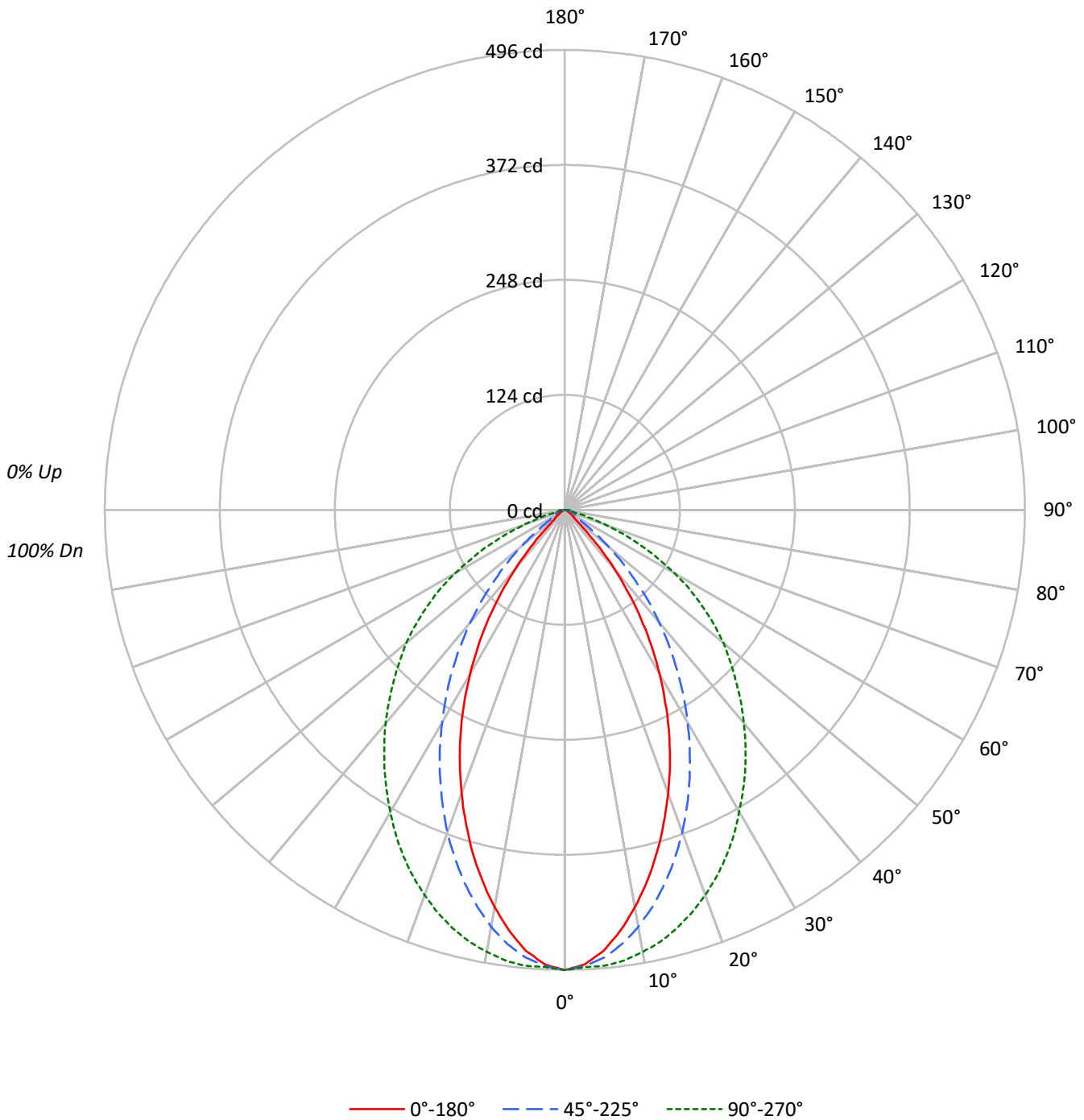
Lumens per Lamp: N/A
Luminaire Lumens: 642.1 lumens
Efficiency: N/A
Efficacy: 32.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3417	3417	3417
5°	3300	3350	3411
10°	3042	3192	3385
15°	2731	2972	3329
20°	2384	2711	3240
25°	2019	2417	3129
30°	1622	2104	2990
35°	1200	1775	2850
40°	743	1417	2701
45°	290	1036	2539
50°	136	650	2392
55°	100	278	2172
60°	69	197	1882
65°	46	207	1465
70°	44	189	922
75°	59	192	293
80°	87	218	198
85°	134	434	308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2539 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	7.1
10°-20°	117.9	18.4
20°-30°	150.2	23.4
30°-40°	139.8	21.8
40°-50°	96.2	15.0
50°-60°	54.5	8.5
60°-70°	25.7	4.0
70°-80°	8.1	1.3
80°-90°	4.2	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°	313.6	48.8
0°-40°	453.4	70.6
0°-60°	604.1	94.1
0°-90°	642.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	642.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	478	484	485	489	494	44
15°	383	396	417	448	467	107
25°	266	283	318	372	412	121
35°	143	163	211	283	339	88
45°	30	47	106	192	261	28
55°	8	9	23	111	181	8
65°	3	3	13	40	90	3
75°	2	5	7	8	11	2
85°	2	4	6	5	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	496.3	496.3	496.3	496.3	496.3
2.5°	490.7	495.7	492.4	492.9	493.5
5°	477.5	484.1	484.7	489.1	493.5
7.5°	458.2	466.5	472.5	483.0	490.2
10°	435.1	445.0	456.6	473.6	484.1
12.5°	410.2	421.8	437.8	462.1	477.0
15°	383.2	395.9	416.9	448.3	467.0
17.5°	354.5	368.9	394.2	431.7	455.5
20°	325.3	340.8	370.0	413.0	442.2
22.5°	296.1	312.1	344.6	392.6	427.9
25°	265.8	282.9	318.2	371.6	411.9
27.5°	234.9	252.5	291.7	350.1	394.8
30°	204.0	222.8	264.7	328.1	376.1
32.5°	173.7	192.4	238.2	306.0	357.9
35°	142.8	162.7	211.2	283.4	339.1
37.5°	111.9	133.4	184.7	260.3	319.8
40°	82.7	103.1	157.7	237.7	300.5
42.5°	55.1	75.0	133.4	215.0	280.7
45°	29.8	47.4	106.4	192.4	260.8
47.5°	16.0	25.4	83.3	170.4	241.5
50°	12.7	14.3	60.7	150.0	223.3
52.5°	10.5	11.6	39.7	130.7	202.4
55°	8.3	9.4	23.2	110.8	180.9
57.5°	6.6	7.7	14.9	92.1	159.9
60°	5.0	6.1	14.3	73.9	136.7
62.5°	3.9	4.4	13.2	56.8	112.5
65°	2.8	3.3	12.7	39.7	89.9
67.5°	2.2	2.8	11.6	25.4	67.3
70°	2.2	2.2	9.4	16.5	45.8
72.5°	2.2	3.9	8.3	11.0	27.6
75°	2.2	5.0	7.2	7.7	11.0
77.5°	2.2	5.5	6.1	6.1	6.1
80°	2.2	5.0	5.5	5.5	5.0
82.5°	2.2	4.4	5.0	5.5	4.4
85°	1.7	4.4	5.5	5.0	3.9
87.5°	1.7	4.4	5.0	4.4	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)