

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: P1061754

Luminaire Tested: S125RDR-S610D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D950-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

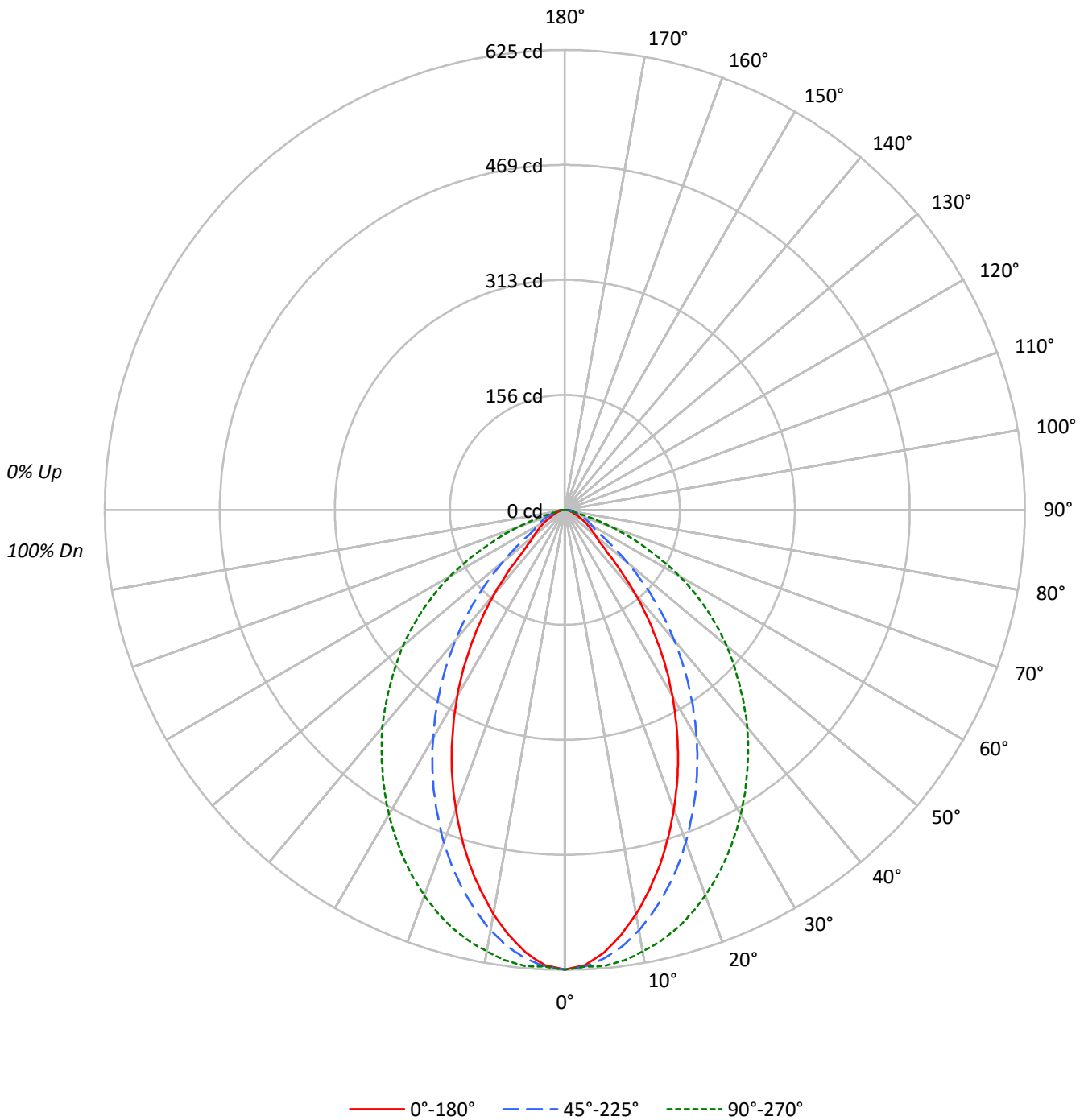
Lumens per Lamp: N/A
Luminaire Lumens: 904.9 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4302	4302	4302
5°	4176	4231	4300
10°	3899	4057	4261
15°	3559	3810	4198
20°	3172	3522	4086
25°	2764	3198	3954
30°	2322	2845	3800
35°	1847	2472	3633
40°	1331	2076	3467
45°	789	1649	3265
50°	583	1173	3072
55°	495	725	2814
60°	402	585	2477
65°	314	541	1958
70°	268	467	1311
75°	247	407	529
80°	262	420	369
85°	316	632	419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3265 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	6.4
10°-20°	151.2	16.7
20°-30°	197.7	21.8
30°-40°	192.6	21.3
40°-50°	144.4	16.0
50°-60°	90.5	10.0
60°-70°	47.1	5.2
70°-80°	17.1	1.9
80°-90°	6.8	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°	406.5	44.9
0°-40°	599.0	66.2
0°-60°	834.0	92.2
0°-90°	904.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	904.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	625	625	625	625	625	
5°	604	612	612	617	622	56
15°	499	514	534	568	589	139
25°	364	384	421	478	520	166
35°	220	243	294	372	432	137
45°	81	105	169	262	335	68
55°	41	43	60	158	234	37
65°	19	21	33	64	120	20
75°	9	13	15	16	20	10
85°	4	7	8	7	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	624.8	624.8	624.8	624.8	624.8
2.5°	619.4	625.4	621.4	621.4	621.4
5°	604.2	612.1	612.1	616.8	622.1
7.5°	582.9	592.2	598.2	609.5	617.5
10°	557.7	569.0	580.3	598.9	609.5
12.5°	529.2	542.4	558.4	584.3	600.2
15°	499.3	513.9	534.5	567.7	588.9
17.5°	466.7	484.0	508.6	548.4	574.3
20°	432.9	450.1	480.7	525.8	557.7
22.5°	399.0	417.6	450.8	501.9	539.8
25°	363.8	383.8	420.9	478.0	520.5
27.5°	328.0	348.6	389.7	453.5	499.3
30°	292.1	313.4	357.9	426.9	478.0
32.5°	256.3	278.9	326.0	399.7	455.5
35°	219.8	243.0	294.1	372.5	432.2
37.5°	184.6	207.8	262.3	344.6	409.0
40°	148.1	173.3	231.0	316.7	385.7
42.5°	112.2	138.1	199.8	288.8	360.5
45°	81.0	104.9	169.3	261.6	335.3
47.5°	62.4	75.7	138.1	233.7	310.7
50°	54.4	58.4	109.5	207.8	286.8
52.5°	47.1	49.8	82.3	183.9	260.9
55°	41.2	43.2	60.4	158.0	234.4
57.5°	34.5	37.2	47.8	132.8	207.1
60°	29.2	30.5	42.5	109.5	179.9
62.5°	23.9	25.2	37.8	86.3	149.4
65°	19.3	20.6	33.2	63.7	120.2
67.5°	15.9	16.6	27.9	45.1	92.3
70°	13.3	13.9	23.2	31.2	65.1
72.5°	11.3	13.3	18.6	22.6	41.2
75°	9.3	12.6	15.3	15.9	19.9
77.5°	8.0	12.0	12.6	12.6	11.3
80°	6.6	10.0	10.6	10.0	9.3
82.5°	5.3	8.0	8.6	8.6	7.3
85°	4.0	6.6	8.0	7.3	5.3
87.5°	2.7	6.0	6.6	6.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)