

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: P1056451

Luminaire Tested: S125R3DR-S610D927-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125R3DR-S610D927-X4F0-XX-UDD-FLL-B
Description: DEFINE 5, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

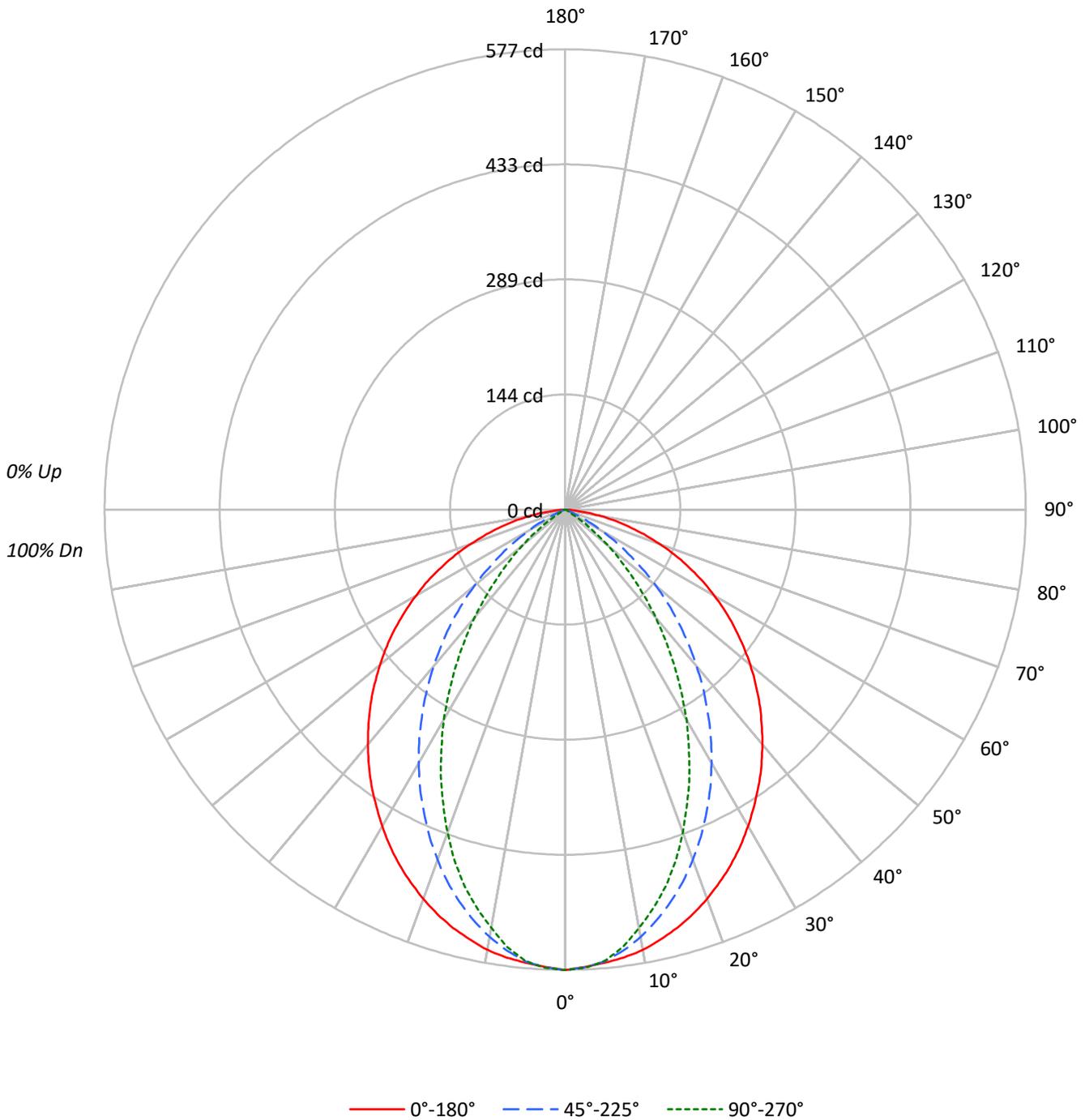
Lumens per Lamp: N/A
Luminaire Lumens: 935.6 lumens
Efficiency: N/A
Efficacy: 49.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.89 / 1.07
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																																				
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78																																				
3	96	87	81	75	94	86	80	75	83	78	74	80	76	72	78	74	71	69																																				
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61																																				
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55																																				
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49																																				
7	72	61	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45																																				
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41																																				
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37																																				
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34																																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4080	4080	4080
5°	4048	4035	4031
10°	4024	3905	3823
15°	3973	3730	3572
20°	3907	3516	3241
25°	3833	3267	2874
30°	3740	2993	2484
35°	3649	2691	2054
40°	3547	2365	1626
45°	3443	2019	1178
50°	3328	1630	761
55°	3201	1192	339
60°	3050	737	98
65°	2860	268	57
70°	2590	95	23
75°	2251	30	16
80°	1722	24	0
85°	787	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3443 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	5.7
10°-20°	144.0	15.4
20°-30°	194.8	20.8
30°-40°	200.1	21.4
40°-50°	165.8	17.7
50°-60°	106.4	11.4
60°-70°	51.4	5.5
70°-80°	17.4	1.9
80°-90°	2.2	0.2
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°	392.3	41.9
0°-40°	592.4	63.3
0°-60°	864.6	92.4
0°-90°	935.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	935.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	577	577	577	577	577	
5°	570	575	569	565	568	54
15°	543	536	510	492	488	153
25°	491	467	419	381	368	226
35°	423	382	312	257	238	264
45°	344	288	202	140	118	266
55°	260	190	97	42	28	232
65°	171	94	16	5	3	169
75°	82	18	1	1	1	87
85°	10	0	0	0	0	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	577.2	577.2	577.2	577.2	577.2
2.5°	573.8	578.4	574.4	573.8	574.9
5°	570.4	574.9	568.6	565.2	568.1
7.5°	566.3	568.6	557.8	552.0	553.2
10°	560.6	560.1	544.0	534.3	532.6
12.5°	552.0	549.2	528.0	514.3	511.4
15°	542.9	536.0	509.7	492.0	488.0
17.5°	532.0	521.2	489.7	466.8	461.1
20°	519.4	504.6	467.4	439.3	430.8
22.5°	505.7	486.8	443.9	410.7	399.3
25°	491.4	467.4	418.8	381.0	368.4
27.5°	475.4	447.4	393.6	350.7	335.2
30°	458.2	426.2	366.7	319.8	304.3
32.5°	440.5	405.0	339.8	288.9	270.0
35°	422.8	382.1	311.8	257.4	238.0
37.5°	403.9	359.3	284.3	227.7	206.5
40°	384.4	335.8	256.3	196.8	176.2
42.5°	364.4	311.8	228.3	167.6	146.4
45°	344.4	287.8	201.9	139.6	117.8
47.5°	323.8	263.2	174.5	112.1	93.2
50°	302.6	239.1	148.2	87.5	69.2
52.5°	281.5	214.5	121.3	63.5	46.9
55°	259.7	190.5	96.7	42.3	27.5
57.5°	238.0	165.9	73.8	23.5	10.3
60°	215.7	142.4	52.1	8.0	6.9
62.5°	193.9	117.3	32.6	6.3	5.1
65°	171.0	94.4	16.0	4.6	3.4
67.5°	148.7	72.7	6.9	2.9	1.7
70°	125.3	52.6	4.6	1.7	1.1
72.5°	103.5	33.8	2.9	1.1	0.6
75°	82.4	17.7	1.1	0.6	0.6
77.5°	61.8	7.4	0.6	0.6	0.6
80°	42.3	3.4	0.6	0.6	0.0
82.5°	25.2	1.1	0.6	0.6	0.0
85°	9.7	0.0	0.0	0.0	0.0
87.5°	0.6	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)