

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: P1056454

Luminaire Tested: S125R3DR-S610D930-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056454  
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-S610D930-X4F0-XX-UDD-FLL-B  
Description: DEFINE 5, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

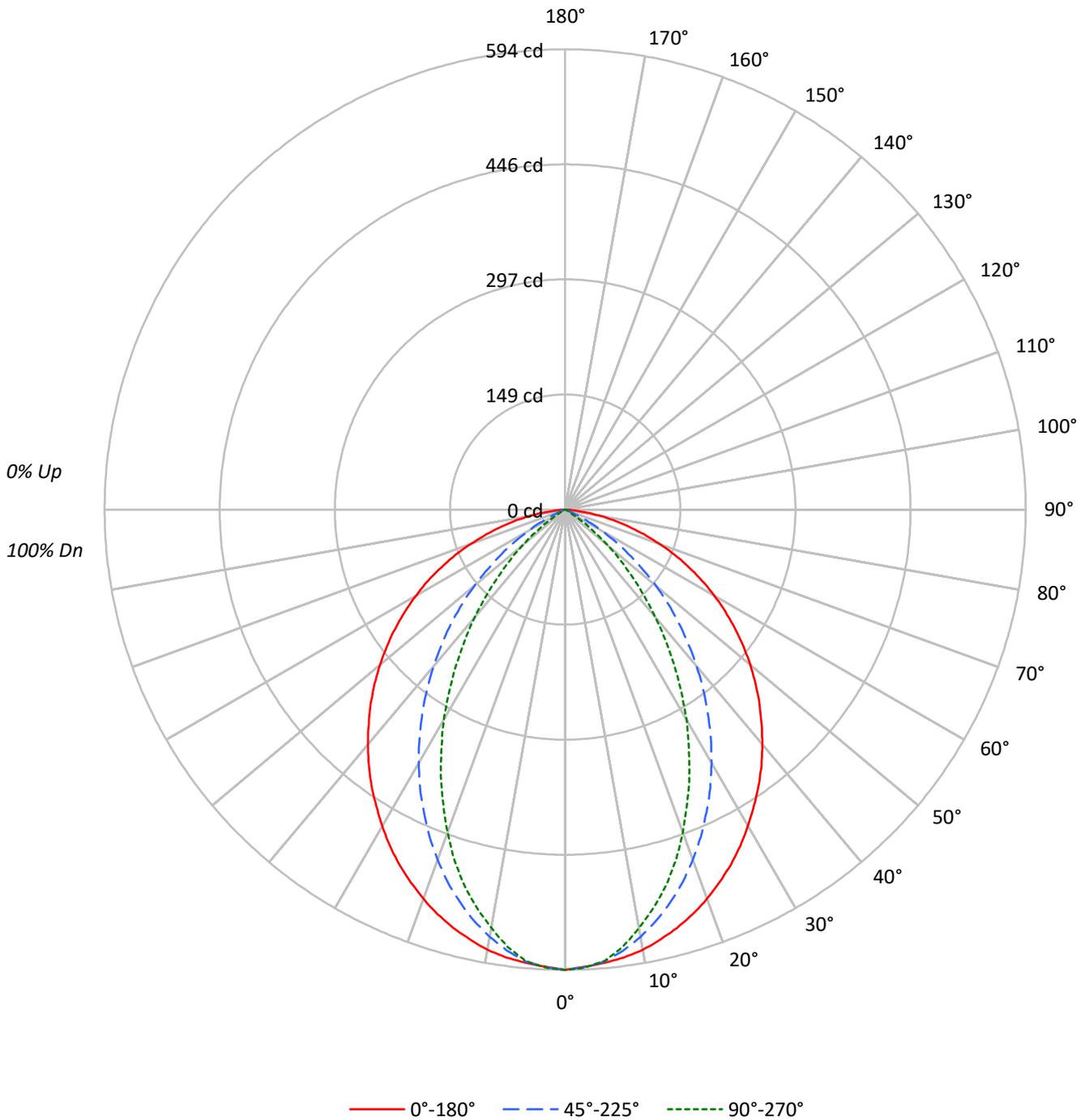
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 962.9 lumens  
Efficiency: N/A  
Efficacy: 50.4 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	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	106	103	100	101	99	97	98	96	94	94	93	91	89			89	
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78	
3	96	87	81	75	94	86	80	75	83	78	74	80	76	72	78	74	71	69			69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61			61	
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55			55	
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49			49	
7	72	61	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45			45	
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41			41	
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37			37	
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34			34	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4200	4200	4200
5°	4166	4153	4149
10°	4142	4019	3934
15°	4089	3839	3675
20°	4022	3619	3335
25°	3945	3362	2958
30°	3850	3081	2557
35°	3755	2769	2114
40°	3651	2434	1673
45°	3543	2077	1213
50°	3426	1677	783
55°	3294	1226	349
60°	3139	758	100
65°	2944	276	59
70°	2664	97	25
75°	2316	33	16
80°	1775	24	0
85°	811	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3543 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.2	5.7
10°-20°	148.2	15.4
20°-30°	200.4	20.8
30°-40°	205.9	21.4
40°-50°	170.6	17.7
50°-60°	109.5	11.4
60°-70°	52.9	5.5
70°-80°	17.9	1.9
80°-90°	2.3	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°	403.8	41.9
0°-40°	609.7	63.3
0°-60°	889.8	92.4
0°-90°	962.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	962.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	594	594	594	594	594	
5°	587	592	585	582	585	56
15°	559	552	525	506	502	157
25°	506	481	431	392	379	233
35°	435	393	321	265	245	272
45°	354	296	208	144	121	273
55°	267	196	100	44	28	239
65°	176	97	16	5	4	174
75°	85	18	1	1	1	90
85°	10	0	0	0	0	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	594.1	594.1	594.1	594.1	594.1
2.5°	590.5	595.2	591.1	590.5	591.7
5°	587.0	591.7	585.2	581.7	584.6
7.5°	582.9	585.2	574.0	568.2	569.3
10°	577.0	576.4	559.9	549.9	548.1
12.5°	568.2	565.2	543.4	529.3	526.4
15°	558.7	551.7	524.6	506.3	502.2
17.5°	547.5	536.4	504.0	480.4	474.5
20°	534.6	519.3	481.0	452.2	443.3
22.5°	520.5	501.0	456.9	422.7	411.0
25°	505.7	481.0	431.0	392.1	379.2
27.5°	489.3	460.4	405.1	360.9	345.0
30°	471.6	438.6	377.4	329.1	313.2
32.5°	453.3	416.8	349.7	297.3	277.9
35°	435.1	393.3	320.9	264.9	244.9
37.5°	415.7	369.7	292.6	234.3	212.5
40°	395.6	345.6	263.8	202.5	181.3
42.5°	375.0	320.9	234.9	172.5	150.7
45°	354.4	296.1	207.8	143.7	121.3
47.5°	333.2	270.8	179.6	115.4	96.0
50°	311.5	246.1	152.5	90.1	71.2
52.5°	289.7	220.8	124.8	65.4	48.3
55°	267.3	196.1	99.5	43.6	28.3
57.5°	244.9	170.7	76.0	24.1	10.6
60°	222.0	146.6	53.6	8.2	7.1
62.5°	199.6	120.7	33.6	6.5	5.3
65°	176.0	97.1	16.5	4.7	3.5
67.5°	153.1	74.8	7.1	2.9	1.8
70°	128.9	54.2	4.7	1.8	1.2
72.5°	106.6	34.7	2.9	1.2	0.6
75°	84.8	18.3	1.2	0.6	0.6
77.5°	63.6	7.7	0.6	0.6	0.6
80°	43.6	3.5	0.6	0.6	0.0
82.5°	25.9	1.2	0.6	0.6	0.0
85°	10.0	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)