

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: P1056463

Luminaire Tested: S125R3DR-S610D950-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056463  
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-S610D950-X4F0-XX-UDD-FLL-B  
Description: DEFINE 5, BLACK 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

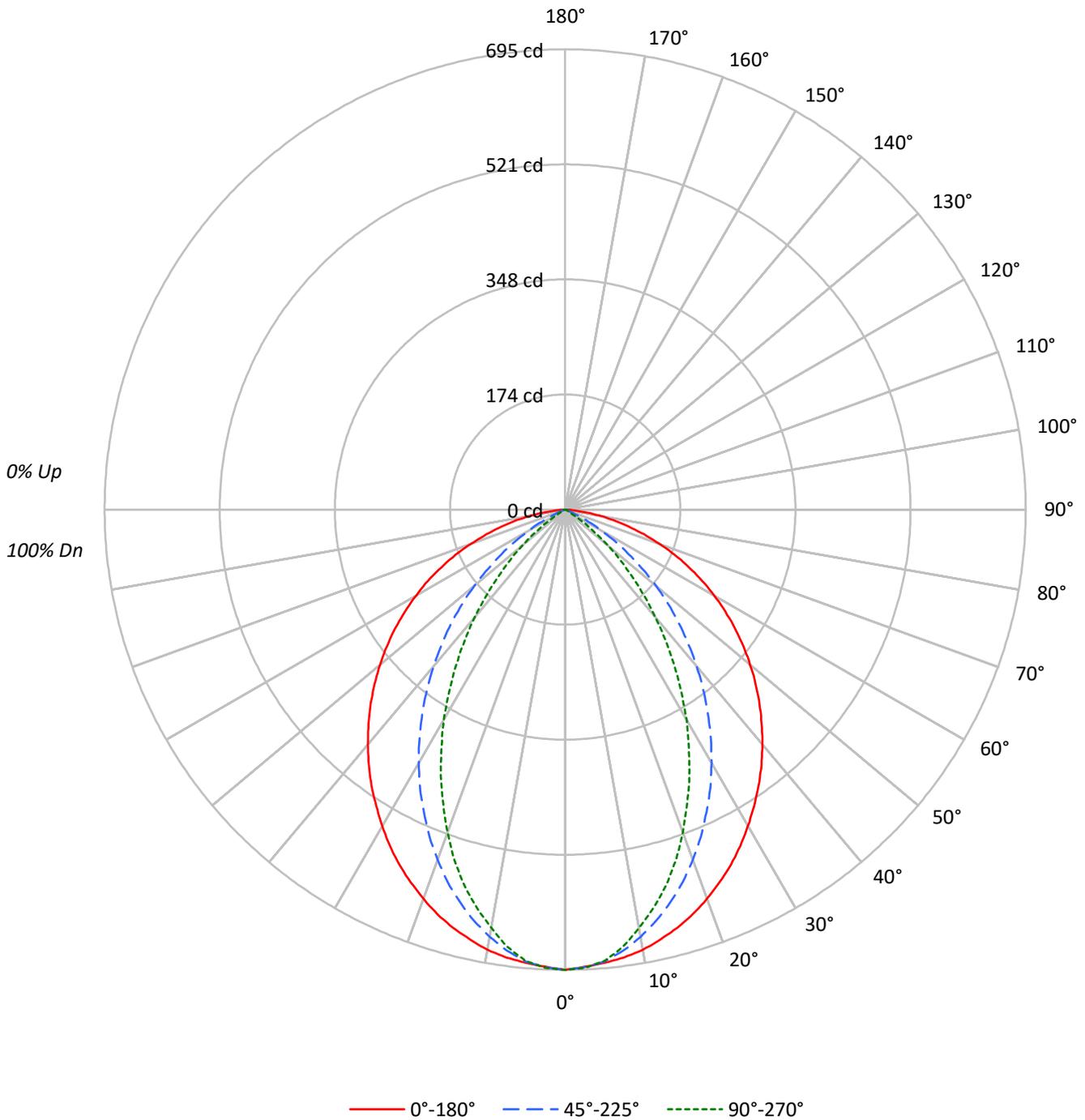
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1126.7 lumens  
Efficiency: N/A  
Efficacy: 59.0 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

TEST NUMBER: P1056463

CATALOG NUMBER: S125R3DR-S610D950-X4F0-XX-UDD-FLL-B

### Luminous Intensity Polar Plot





TEST NUMBER: P1056463

CATALOG NUMBER: S125R3DR-S610D950-X4F0-XX-UDD-FLL-B

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
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	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°	4914	4914	4914
5°	4874	4860	4855
10°	4846	4703	4604
15°	4785	4492	4301
20°	4706	4235	3903
25°	4616	3934	3461
30°	4504	3605	2992
35°	4394	3241	2473
40°	4273	2848	1958
45°	4146	2431	1419
50°	4008	1962	917
55°	3855	1435	408
60°	3672	886	117
65°	3446	323	69
70°	3119	114	29
75°	2710	38	19
80°	2076	28	0
85°	949	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4146 cd/sqm



TEST NUMBER: P1056463

CATALOG NUMBER: S125R3DR-S610D950-X4F0-XX-UDD-FLL-B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.6	5.7
10°-20°	173.4	15.4
20°-30°	234.5	20.8
30°-40°	240.9	21.4
40°-50°	199.6	17.7
50°-60°	128.2	11.4
60°-70°	61.9	5.5
70°-80°	20.9	1.9
80°-90°	2.7	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°	472.5	41.9
0°-40°	713.4	63.3
0°-60°	1041.2	92.4
0°-90°	1126.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	687	692	685	681	684	65
15°	654	646	614	592	588	184
25°	592	563	504	459	444	272
35°	509	460	376	310	287	318
45°	415	346	243	168	142	320
55°	313	229	116	51	33	280
65°	206	114	19	6	4	204
75°	99	21	1	1	1	105
85°	12	0	0	0	0	19
90°	0	0	0	0	0	



TEST NUMBER: P1056463

CATALOG NUMBER: S125R3DR-S610D950-X4F0-XX-UDD-FLL-B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	695.1	695.1	695.1	695.1	695.1
2.5°	691.0	696.5	691.7	691.0	692.4
5°	686.9	692.4	684.8	680.7	684.1
7.5°	682.0	684.8	671.7	664.8	666.2
10°	675.1	674.5	655.2	643.5	641.4
12.5°	664.8	661.4	635.9	619.3	615.9
15°	653.8	645.5	613.8	592.5	587.7
17.5°	640.7	627.6	589.7	562.2	555.3
20°	625.5	607.6	562.9	529.1	518.8
22.5°	609.0	586.3	534.6	494.6	480.9
25°	591.8	562.9	504.3	458.8	443.7
27.5°	572.5	538.7	474.0	422.3	403.7
30°	551.8	513.2	441.6	385.1	366.5
32.5°	530.5	487.8	409.2	347.9	325.2
35°	509.1	460.2	375.5	310.0	286.6
37.5°	486.4	432.6	342.4	274.2	248.7
40°	463.0	404.4	308.6	237.0	212.2
42.5°	438.8	375.5	274.9	201.9	176.4
45°	414.7	346.5	243.2	168.1	141.9
47.5°	389.9	316.9	210.1	135.0	112.3
50°	364.4	288.0	178.4	105.4	83.4
52.5°	339.0	258.3	146.1	76.5	56.5
55°	312.8	229.4	116.4	51.0	33.1
57.5°	286.6	199.8	88.9	28.2	12.4
60°	259.7	171.5	62.7	9.6	8.3
62.5°	233.5	141.2	39.3	7.6	6.2
65°	206.0	113.7	19.3	5.5	4.1
67.5°	179.1	87.5	8.3	3.4	2.1
70°	150.9	63.4	5.5	2.1	1.4
72.5°	124.7	40.6	3.4	1.4	0.7
75°	99.2	21.4	1.4	0.7	0.7
77.5°	74.4	9.0	0.7	0.7	0.7
80°	51.0	4.1	0.7	0.7	0.0
82.5°	30.3	1.4	0.7	0.7	0.0
85°	11.7	0.0	0.0	0.0	0.0
87.5°	0.7	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)