

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: P1056465

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

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-10)  
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-W  
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

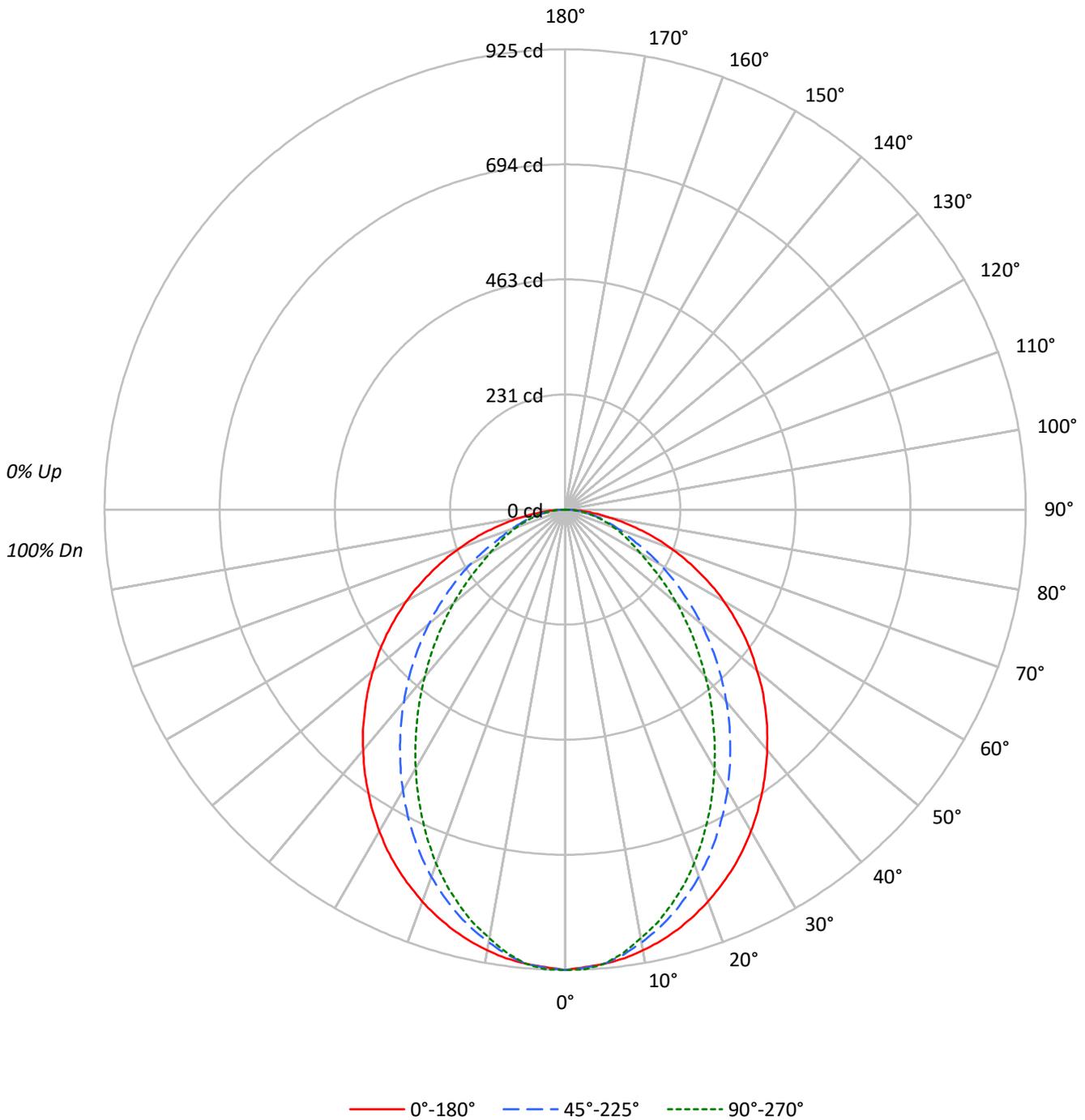
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1961.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.01 / 1.17  
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	100	100	
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86	86	86	86	
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73	73	73	73	
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63	63	63	63	
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55	55	55	55	
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48	48	48	48	
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43	43	43	43	
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38	38	38	38	
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34	34	34	34	
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31	
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28	28	28	28	

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

	0°	45°	90°
0°	6541	6541	6541
5°	6502	6497	6502
10°	6458	6340	6280
15°	6394	6146	6020
20°	6307	5909	5696
25°	6212	5626	5310
30°	6090	5320	4899
35°	5957	4988	4471
40°	5824	4647	4049
45°	5683	4291	3630
50°	5531	3925	3212
55°	5392	3524	2794
60°	5202	3098	2454
65°	4943	2628	2282
70°	4642	2350	2135
75°	4195	2163	2013
80°	3648	1962	1881
85°	2847	1736	1736

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5683 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	4.4
10°-20°	237.7	12.1
20°-30°	335.8	17.1
30°-40°	369.6	18.8
40°-50°	344.8	17.6
50°-60°	275.2	14.0
60°-70°	185.2	9.4
70°-80°	98.7	5.0
80°-90°	27.4	1.4
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°	660.0	33.7
0°-40°	1029.7	52.5
0°-60°	1649.7	84.1
0°-90°	1961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	916	924	916	913	916	87
15°	874	869	840	825	823	246
25°	796	772	721	690	681	367
35°	690	650	578	532	518	432
45°	568	515	429	377	363	439
55°	438	371	286	240	227	391
65°	296	231	157	139	136	293
75°	154	102	79	74	74	164
85°	35	24	21	22	21	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	925.2	925.2	925.2	925.2	925.2
2.5°	920.4	928.0	921.8	923.2	924.5
5°	916.3	923.8	915.6	912.8	916.3
7.5°	909.4	915.6	901.8	895.6	898.4
10°	899.7	903.9	883.2	874.9	874.9
12.5°	888.0	888.0	863.2	851.5	851.5
15°	873.6	868.7	839.8	825.3	822.6
17.5°	857.0	848.1	813.6	795.0	791.6
20°	838.4	824.0	785.4	761.3	757.1
22.5°	817.8	799.2	754.4	724.7	719.9
25°	796.4	772.3	721.3	689.6	680.7
27.5°	772.3	743.3	687.5	651.7	640.7
30°	746.1	713.0	651.7	611.8	600.1
32.5°	719.2	682.0	615.2	572.5	559.4
35°	690.3	649.7	578.0	532.5	518.1
37.5°	661.4	617.3	541.5	494.0	478.8
40°	631.1	582.8	503.6	454.7	438.8
42.5°	600.7	549.1	466.4	416.8	400.3
45°	568.4	514.6	429.2	376.8	363.1
47.5°	537.4	479.5	392.7	341.7	326.6
50°	502.9	443.0	356.9	305.9	292.1
52.5°	471.2	407.2	321.0	273.5	259.0
55°	437.5	371.3	285.9	240.4	226.7
57.5°	402.3	335.5	252.1	209.4	196.3
60°	367.9	299.7	219.1	179.8	173.6
62.5°	332.8	265.9	188.1	157.8	153.6
65°	295.5	230.8	157.1	139.2	136.4
67.5°	260.4	197.0	132.3	121.9	119.2
70°	224.6	163.3	113.7	104.7	103.3
72.5°	189.5	130.9	95.8	89.6	88.2
75°	153.6	102.0	79.2	74.4	73.7
77.5°	120.6	76.5	62.7	60.6	59.2
80°	89.6	57.2	48.2	46.8	46.2
82.5°	61.3	39.3	34.4	34.4	33.1
85°	35.1	24.1	21.4	22.0	21.4
87.5°	13.1	10.3	9.6	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)