

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: P1056428

Luminaire Tested: S125R3DR-S375D930-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/25/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125R3DR-S375D930-X4F0-XX-UDD-FLL-S  
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

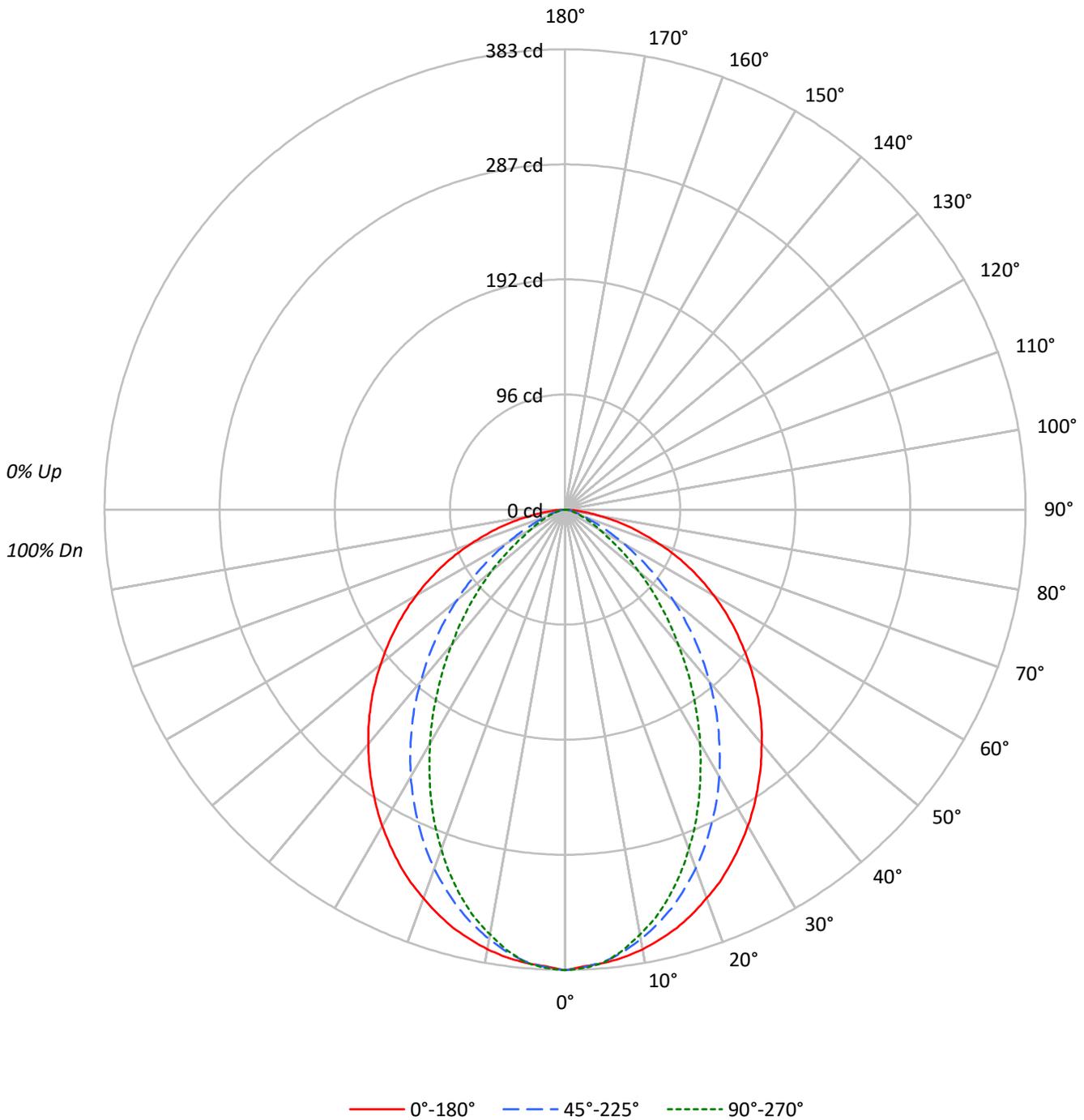
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 692.7 lumens  
Efficiency: N/A  
Efficacy: 55.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11  
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 12.6  
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

TEST NUMBER: P1056428

CATALOG NUMBER: S125R3DR-S375D930-X4F0-XX-UDD-FLL-S

### Luminous Intensity Polar Plot





TEST NUMBER: P1056428

CATALOG NUMBER: S125R3DR-S375D930-X4F0-XX-UDD-FLL-S

**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				
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42				
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35				
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				

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

	0°	45°	90°
0°	2710	2710	2710
5°	2687	2680	2685
10°	2667	2606	2578
15°	2636	2512	2444
20°	2589	2392	2264
25°	2541	2250	2059
30°	2482	2095	1833
35°	2416	1917	1596
40°	2348	1723	1349
45°	2281	1519	1118
50°	2201	1292	878
55°	2117	1050	638
60°	2022	783	457
65°	1900	517	356
70°	1716	360	250
75°	1491	232	194
80°	1168	175	159
85°	608	146	114

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2281 cd/sqm



TEST NUMBER: P1056428

CATALOG NUMBER: S125R3DR-S375D930-X4F0-XX-UDD-FLL-S

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.7	5.2
10°-20°	97.1	14.0
20°-30°	134.2	19.4
30°-40°	142.2	20.5
40°-50°	124.1	17.9
50°-60°	88.3	12.7
60°-70°	49.1	7.1
70°-80°	18.9	2.7
80°-90°	3.3	0.5
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°	267.0	38.5
0°-40°	409.1	59.1
0°-60°	621.5	89.7
0°-90°	692.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	692.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	383	383	383	383	383	
5°	379	382	378	376	378	36
15°	360	357	343	336	334	101
25°	326	315	288	271	264	150
35°	280	261	222	195	185	175
45°	228	201	152	121	112	176
55°	172	138	85	59	52	154
65°	114	74	31	23	21	112
75°	55	21	8	7	7	58
85°	8	2	2	1	1	11
90°	0	0	0	0	0	



TEST NUMBER: P1056428

CATALOG NUMBER: S125R3DR-S375D930-X4F0-XX-UDD-FLL-S

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	383.3	383.3	383.3	383.3	383.3
2.5°	380.4	384.3	381.1	381.5	381.8
5°	378.6	381.5	377.6	376.5	378.3
7.5°	375.8	377.9	371.2	368.7	369.8
10°	371.5	372.3	363.0	359.5	359.1
12.5°	366.2	365.2	353.8	348.1	347.8
15°	360.2	357.0	343.2	335.7	333.9
17.5°	352.7	347.8	330.7	321.2	318.3
20°	344.2	337.5	318.0	305.5	300.9
22.5°	335.7	326.5	303.8	288.2	283.2
25°	325.8	314.8	288.5	270.8	264.0
27.5°	315.1	302.0	272.9	252.3	244.1
30°	304.1	288.9	256.6	233.5	224.6
32.5°	292.4	275.0	239.5	214.3	205.1
35°	280.0	260.8	222.1	195.2	184.9
37.5°	267.6	246.3	205.1	176.4	165.7
40°	254.4	231.4	186.7	157.2	146.2
42.5°	241.7	216.1	169.3	139.1	129.2
45°	228.2	200.9	151.9	121.4	111.8
47.5°	214.3	184.9	134.5	104.7	95.1
50°	200.1	169.3	117.5	88.4	79.8
52.5°	185.9	153.7	101.5	72.7	65.3
55°	171.8	137.7	85.2	58.9	51.8
57.5°	157.6	122.1	69.9	46.1	39.7
60°	143.0	106.1	55.4	34.1	32.3
62.5°	128.5	90.5	42.9	28.0	26.6
65°	113.6	74.5	30.9	22.7	21.3
67.5°	98.7	60.0	22.4	17.4	16.3
70°	83.0	45.8	17.4	13.1	12.1
72.5°	68.1	33.0	12.4	9.6	9.2
75°	54.6	21.3	8.5	7.1	7.1
77.5°	41.2	12.8	6.0	5.3	5.3
80°	28.7	7.5	4.3	3.9	3.9
82.5°	17.4	3.9	2.8	2.5	2.5
85°	7.5	2.1	1.8	1.4	1.4
87.5°	1.4	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)