

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: P1056436

Luminaire Tested: S125R3DR-S375D950-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056436  
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-S375D950-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: -

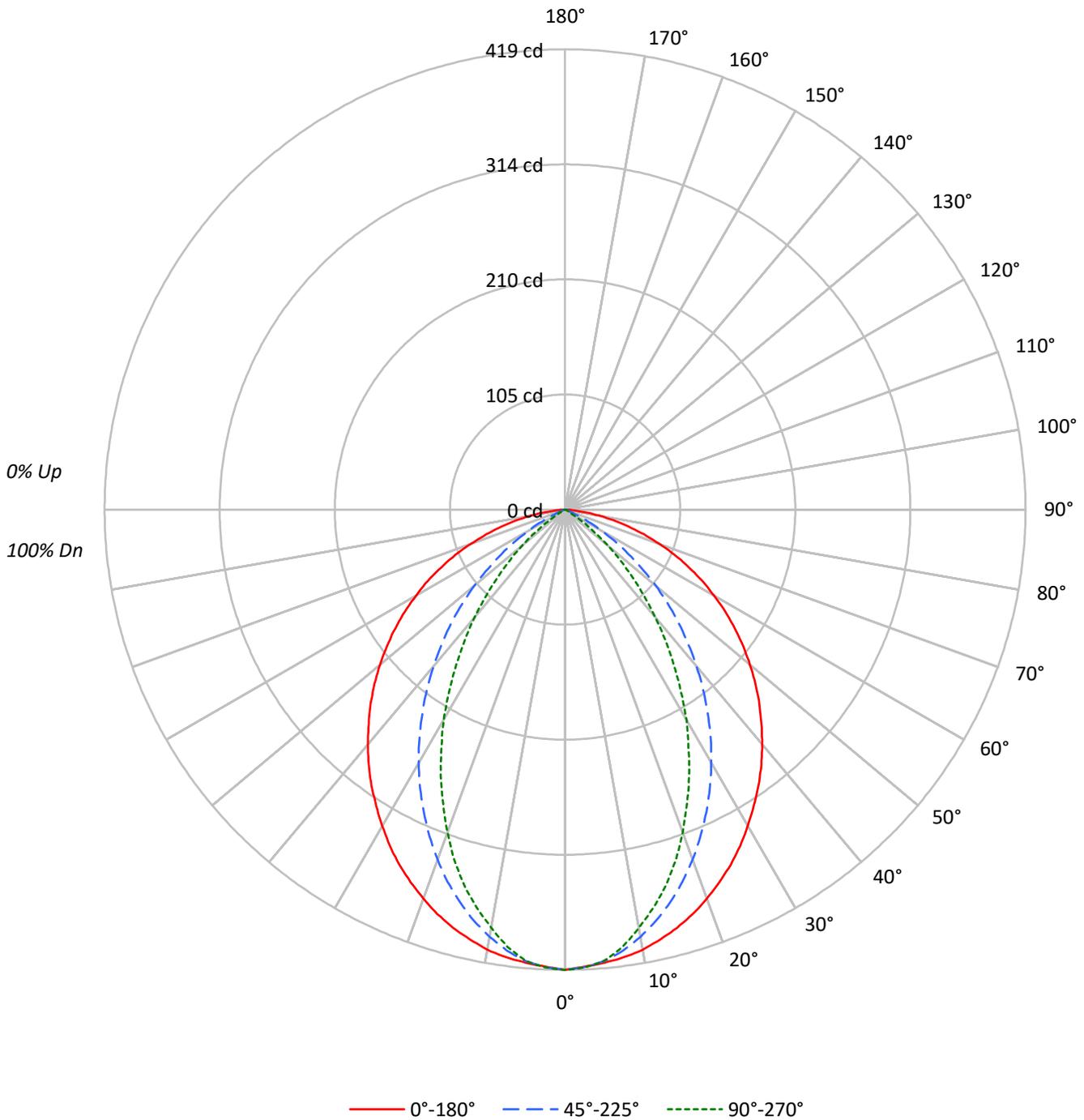
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 679.1 lumens  
Efficiency: N/A  
Efficacy: 53.9 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): 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: P1056436

CATALOG NUMBER: S125R3DR-S375D950-X4F0-XX-UDD-FLL-B

### Luminous Intensity Polar Plot





TEST NUMBER: P1056436

CATALOG NUMBER: S125R3DR-S375D950-X4F0-XX-UDD-FLL-B

**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°	2962	2962	2962
5°	2938	2929	2926
10°	2921	2835	2775
15°	2884	2708	2592
20°	2836	2552	2352
25°	2782	2371	2086
30°	2715	2173	1803
35°	2649	1953	1490
40°	2575	1716	1180
45°	2499	1466	855
50°	2416	1182	552
55°	2323	865	245
60°	2213	534	71
65°	2078	194	42
70°	1879	68	17
75°	1633	22	11
80°	1250	16	0
85°	576	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2499 cd/sqm



TEST NUMBER: P1056436

CATALOG NUMBER: S125R3DR-S375D950-X4F0-XX-UDD-FLL-B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.9	5.7
10°-20°	104.5	15.4
20°-30°	141.4	20.8
30°-40°	145.2	21.4
40°-50°	120.3	17.7
50°-60°	77.2	11.4
60°-70°	37.3	5.5
70°-80°	12.6	1.9
80°-90°	1.6	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°	284.8	41.9
0°-40°	430.0	63.3
0°-60°	627.5	92.4
0°-90°	679.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	679.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	419	419	419	419	419	
5°	414	417	413	410	412	39
15°	394	389	370	357	354	111
25°	357	339	304	276	267	164
35°	307	277	226	187	173	192
45°	250	209	147	101	86	193
55°	188	138	70	31	20	168
65°	124	68	12	3	2	123
75°	60	13	1	0	0	63
85°	7	0	0	0	0	11
90°	0	0	0	0	0	



TEST NUMBER: P1056436

CATALOG NUMBER: S125R3DR-S375D950-X4F0-XX-UDD-FLL-B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	419.0	419.0	419.0	419.0	419.0
2.5°	416.5	419.8	416.9	416.5	417.3
5°	414.0	417.3	412.7	410.3	412.3
7.5°	411.1	412.7	404.9	400.7	401.5
10°	406.9	406.5	394.9	387.8	386.6
12.5°	400.7	398.6	383.3	373.3	371.2
15°	394.1	389.1	370.0	357.1	354.2
17.5°	386.2	378.3	355.4	338.8	334.7
20°	377.0	366.2	339.2	318.9	312.7
22.5°	367.1	353.4	322.2	298.1	289.8
25°	356.7	339.2	304.0	276.5	267.4
27.5°	345.1	324.7	285.7	254.5	243.3
30°	332.6	309.4	266.2	232.1	220.9
32.5°	319.7	294.0	246.7	209.7	196.0
35°	306.9	277.4	226.3	186.9	172.7
37.5°	293.2	260.8	206.4	165.3	149.9
40°	279.0	243.7	186.0	142.8	127.9
42.5°	264.5	226.3	165.7	121.7	106.3
45°	250.0	208.9	146.6	101.3	85.5
47.5°	235.0	191.0	126.6	81.4	67.7
50°	219.7	173.6	107.5	63.5	50.2
52.5°	204.3	155.7	88.0	46.1	34.0
55°	188.5	138.3	70.2	30.7	19.9
57.5°	172.7	120.4	53.6	17.0	7.5
60°	156.5	103.4	37.8	5.8	5.0
62.5°	140.8	85.1	23.7	4.6	3.7
65°	124.2	68.5	11.6	3.3	2.5
67.5°	108.0	52.7	5.0	2.1	1.2
70°	90.9	38.2	3.3	1.2	0.8
72.5°	75.2	24.5	2.1	0.8	0.4
75°	59.8	12.9	0.8	0.4	0.4
77.5°	44.8	5.4	0.4	0.4	0.4
80°	30.7	2.5	0.4	0.4	0.0
82.5°	18.3	0.8	0.4	0.4	0.0
85°	7.1	0.0	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)