

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: P1056432

Luminaire Tested: S125R3DR-S375D935-X4F0-XX-UDD-FLL-W

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056432  
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-S375D935-X4F0-XX-UDD-FLL-W  
Description: DEFINE 5, WHITE 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

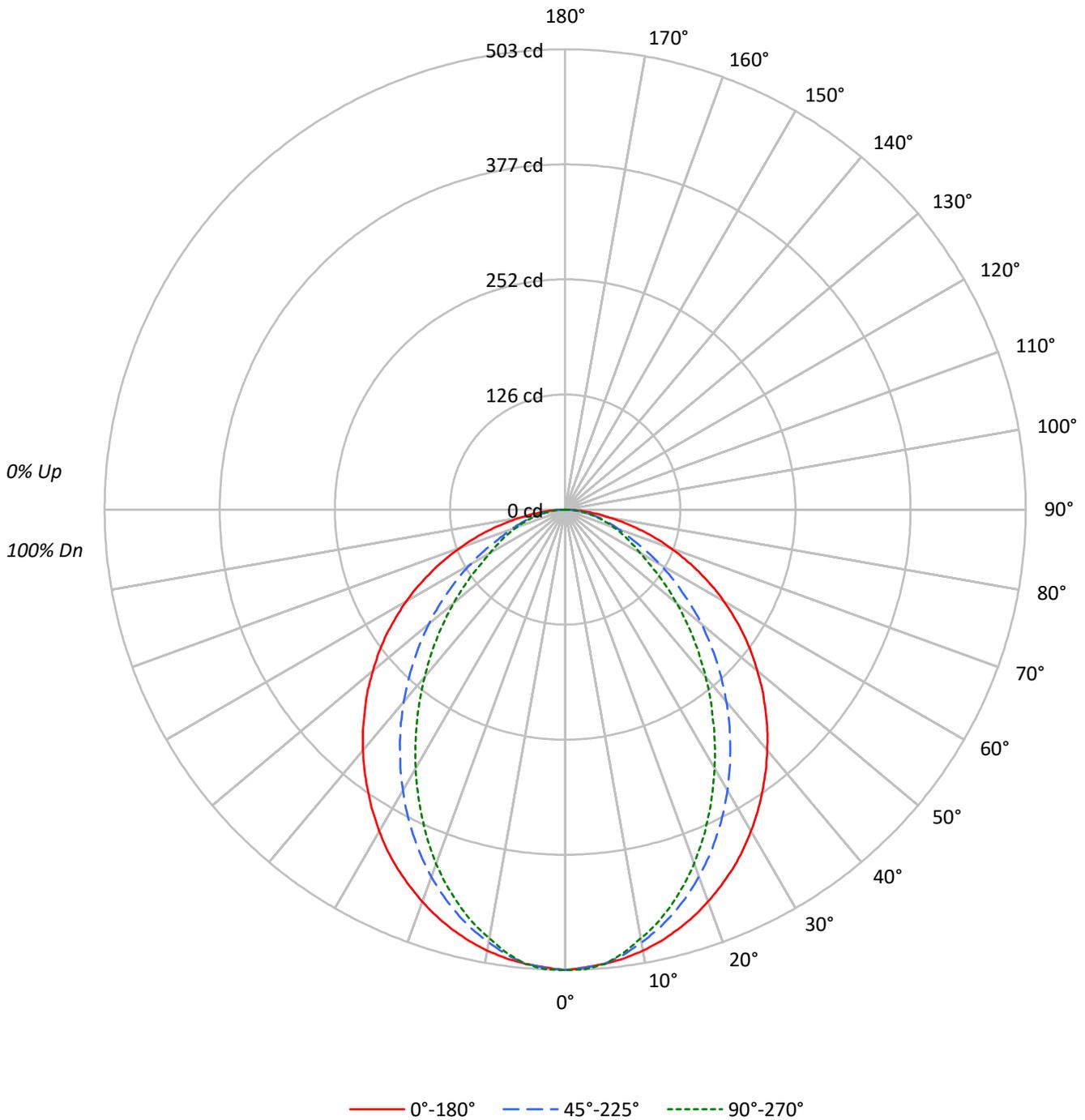
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1066.7 lumens  
Efficiency: N/A  
Efficacy: 84.7 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): 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

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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				
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86				
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73				
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55				
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48				
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43				
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38				
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34				
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28				

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

	0°	45°	90°
0°	3558	3558	3558
5°	3537	3535	3537
10°	3513	3449	3416
15°	3478	3343	3275
20°	3431	3214	3099
25°	3379	3061	2888
30°	3313	2894	2664
35°	3241	2713	2432
40°	3168	2528	2203
45°	3091	2334	1975
50°	3009	2135	1748
55°	2933	1917	1520
60°	2829	1685	1335
65°	2690	1429	1241
70°	2526	1277	1162
75°	2283	1177	1095
80°	1983	1067	1022
85°	1549	941	941

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3091 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.1	4.4
10°-20°	129.3	12.1
20°-30°	182.6	17.1
30°-40°	201.1	18.8
40°-50°	187.6	17.6
50°-60°	149.7	14.0
60°-70°	100.8	9.4
70°-80°	53.7	5.0
80°-90°	14.9	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°	359.0	33.7
0°-40°	560.1	52.5
0°-60°	897.4	84.1
0°-90°	1066.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1066.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	503	503	503	503	503	
5°	498	502	498	497	498	47
15°	475	473	457	449	448	134
25°	433	420	392	375	370	199
35°	376	353	314	290	282	235
45°	309	280	234	205	198	239
55°	238	202	156	131	123	212
65°	161	126	85	76	74	159
75°	84	56	43	40	40	89
85°	19	13	12	12	12	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	503.3	503.3	503.3	503.3	503.3
2.5°	500.7	504.8	501.4	502.2	502.9
5°	498.4	502.5	498.1	496.6	498.4
7.5°	494.7	498.1	490.6	487.2	488.7
10°	489.4	491.7	480.4	475.9	475.9
12.5°	483.1	483.1	469.6	463.2	463.2
15°	475.2	472.6	456.8	449.0	447.5
17.5°	466.2	461.3	442.6	432.5	430.6
20°	456.1	448.2	427.2	414.1	411.9
22.5°	444.8	434.7	410.4	394.2	391.6
25°	433.2	420.1	392.4	375.1	370.3
27.5°	420.1	404.4	374.0	354.5	348.5
30°	405.9	387.9	354.5	332.8	326.4
32.5°	391.2	371.0	334.7	311.4	304.3
35°	375.5	353.4	314.4	289.7	281.8
37.5°	359.8	335.8	294.6	268.7	260.5
40°	343.3	317.0	273.9	247.3	238.7
42.5°	326.8	298.7	253.7	226.7	217.7
45°	309.2	279.9	233.5	205.0	197.5
47.5°	292.3	260.8	213.6	185.9	177.6
50°	273.6	241.0	194.1	166.4	158.9
52.5°	256.3	221.5	174.6	148.8	140.9
55°	238.0	202.0	155.5	130.8	123.3
57.5°	218.9	182.5	137.2	113.9	106.8
60°	200.1	163.0	119.2	97.8	94.4
62.5°	181.0	144.7	102.3	85.8	83.6
65°	160.8	125.5	85.4	75.7	74.2
67.5°	141.7	107.2	72.0	66.3	64.8
70°	122.2	88.8	61.8	57.0	56.2
72.5°	103.1	71.2	52.1	48.7	48.0
75°	83.6	55.5	43.1	40.5	40.1
77.5°	65.6	41.6	34.1	33.0	32.2
80°	48.7	31.1	26.2	25.5	25.1
82.5°	33.4	21.4	18.7	18.7	18.0
85°	19.1	13.1	11.6	12.0	11.6
87.5°	7.1	5.6	5.2	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)