

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: P1056409

Luminaire Tested: S125R3DR-S1270D950-X4F0-XX-UDD-FLL-B

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056409  
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-S1270D950-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: -

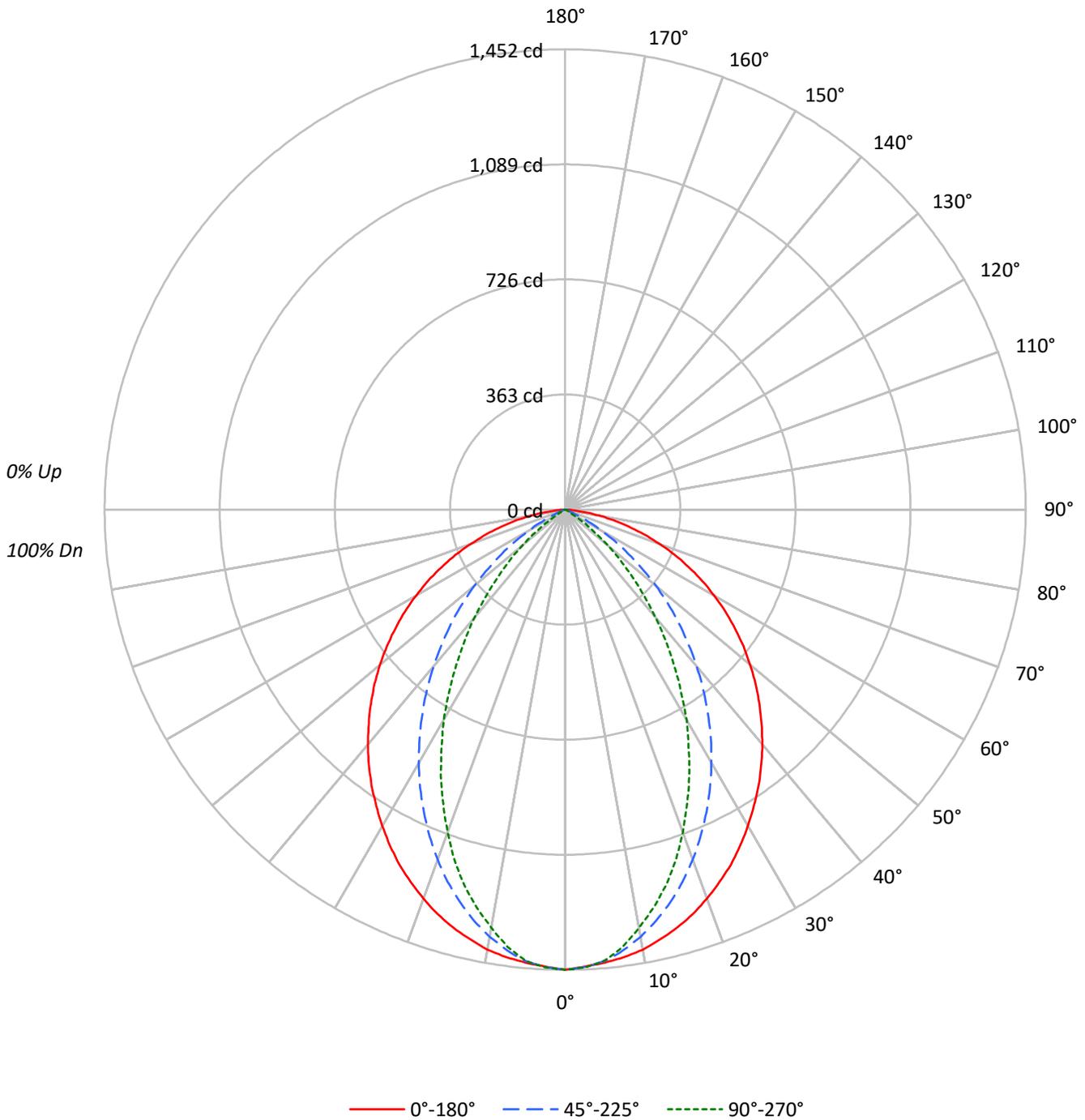
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2353.0 lumens  
Efficiency: N/A  
Efficacy: 56.2 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): 41.9  
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
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°	10263	10263	10263
5°	10180	10148	10139
10°	10122	9822	9615
15°	9993	9383	8982
20°	9828	8843	8150
25°	9640	8215	7228
30°	9408	7529	6248
35°	9176	6767	5165
40°	8923	5949	4089
45°	8659	5078	2963
50°	8371	4098	1915
55°	8051	2997	852
60°	7669	1851	245
65°	7196	674	144
70°	6513	238	60
75°	5659	79	38
80°	4336	57	0
85°	1987	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8659 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.8	5.7
10°-20°	362.1	15.4
20°-30°	489.8	20.8
30°-40°	503.2	21.4
40°-50°	416.9	17.7
50°-60°	267.6	11.4
60°-70°	129.3	5.5
70°-80°	43.7	1.9
80°-90°	5.6	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°	986.7	41.9
0°-40°	1489.9	63.3
0°-60°	2174.4	92.4
0°-90°	2353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2353.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1434	1446	1430	1422	1429	136
15°	1365	1348	1282	1237	1227	385
25°	1236	1176	1053	958	927	569
35°	1063	961	784	648	598	665
45°	866	724	508	351	296	668
55°	653	479	243	106	69	584
65°	430	237	40	12	9	426
75°	207	45	3	1	1	220
85°	24	0	0	0	0	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1451.7	1451.7	1451.7	1451.7	1451.7
2.5°	1443.1	1454.6	1444.5	1443.1	1446.0
5°	1434.5	1446.0	1430.1	1421.5	1428.7
7.5°	1424.4	1430.1	1402.8	1388.4	1391.3
10°	1410.0	1408.6	1368.3	1343.8	1339.5
12.5°	1388.4	1381.2	1328.0	1293.5	1286.3
15°	1365.4	1348.1	1282.0	1237.4	1227.3
17.5°	1338.1	1310.7	1231.6	1174.0	1159.7
20°	1306.4	1269.0	1175.5	1105.0	1083.4
22.5°	1271.9	1224.4	1116.5	1033.0	1004.3
25°	1235.9	1175.5	1053.2	958.2	926.6
27.5°	1195.6	1125.1	989.9	882.0	843.1
30°	1152.5	1071.9	922.3	804.3	765.4
32.5°	1107.9	1018.7	854.6	726.6	679.1
35°	1063.3	961.1	784.1	647.5	598.5
37.5°	1015.8	903.6	715.1	572.6	519.4
40°	966.9	844.6	644.6	494.9	443.1
42.5°	916.5	784.1	574.1	421.6	368.3
45°	866.1	723.7	507.9	351.1	296.4
47.5°	814.4	661.8	438.8	282.0	234.5
50°	761.1	601.4	372.6	220.1	174.1
52.5°	707.9	539.5	305.0	159.7	118.0
55°	653.2	479.1	243.2	106.5	69.1
57.5°	598.5	417.2	185.6	59.0	25.9
60°	542.4	358.3	130.9	20.1	17.3
62.5°	487.7	295.0	82.0	15.8	12.9
65°	430.2	237.4	40.3	11.5	8.6
67.5°	374.1	182.7	17.3	7.2	4.3
70°	315.1	132.4	11.5	4.3	2.9
72.5°	260.4	84.9	7.2	2.9	1.4
75°	207.2	44.6	2.9	1.4	1.4
77.5°	155.4	18.7	1.4	1.4	1.4
80°	106.5	8.6	1.4	1.4	0.0
82.5°	63.3	2.9	1.4	1.4	0.0
85°	24.5	0.0	0.0	0.0	0.0
87.5°	1.4	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)