

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: P1056395

Luminaire Tested: S125R3DR-S1270D850-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P1056395
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-S1270D850-X4F0-XX-UDD-FLL-S
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

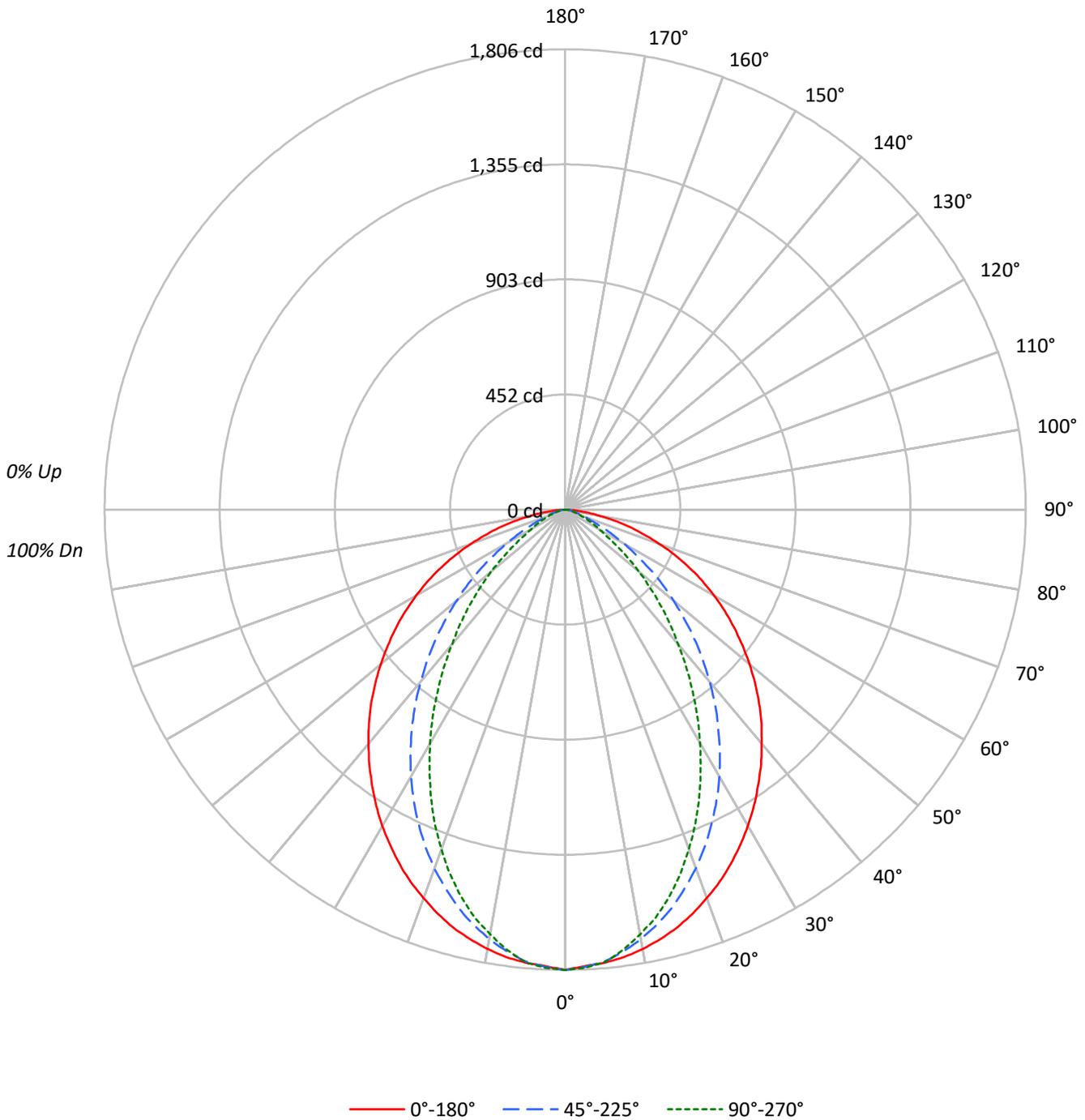
Lumens per Lamp: N/A
Luminaire Lumens: 3264.8 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12769	12769	12769
5°	12664	12629	12652
10°	12571	12282	12150
15°	12424	11837	11519
20°	12205	11274	10670
25°	11976	10607	9707
30°	11701	9871	8642
35°	11388	9036	7520
40°	11067	8119	6359
45°	10751	7156	5268
50°	10374	6088	4139
55°	9977	4947	3010
60°	9529	3689	2152
65°	8953	2434	1679
70°	8090	1695	1176
75°	7036	1095	915
80°	5516	818	749
85°	2847	681	543

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10751 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	5.2
10°-20°	457.4	14.0
20°-30°	632.5	19.4
30°-40°	670.1	20.5
40°-50°	584.9	17.9
50°-60°	416.0	12.7
60°-70°	231.3	7.1
70°-80°	88.9	2.7
80°-90°	15.4	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°	1258.2	38.5
0°-40°	1928.3	59.1
0°-60°	2929.1	89.7
0°-90°	3264.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3264.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1785	1798	1780	1775	1783	169
15°	1698	1683	1617	1582	1574	478
25°	1535	1484	1360	1276	1244	707
35°	1320	1229	1047	920	871	826
45°	1075	947	716	572	527	829
55°	810	649	401	278	244	724
65°	535	351	146	107	100	529
75°	258	100	40	34	34	273
85°	35	10	8	7	7	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1806.3	1806.3	1806.3	1806.3	1806.3
2.5°	1793.0	1811.4	1796.3	1798.0	1799.7
5°	1784.6	1798.0	1779.6	1774.6	1782.9
7.5°	1771.2	1781.3	1749.5	1737.8	1742.8
10°	1751.2	1754.5	1711.0	1694.3	1692.6
12.5°	1726.1	1721.0	1667.5	1640.8	1639.1
15°	1697.6	1682.6	1617.3	1582.2	1573.9
17.5°	1662.5	1639.1	1558.8	1513.7	1500.3
20°	1622.4	1590.6	1498.6	1440.1	1418.3
22.5°	1582.2	1538.7	1431.7	1358.1	1334.7
25°	1535.4	1483.5	1359.8	1276.1	1244.4
27.5°	1485.2	1423.3	1286.2	1189.2	1150.7
30°	1433.4	1361.4	1209.2	1100.5	1058.7
32.5°	1378.2	1296.2	1129.0	1010.2	966.7
35°	1319.6	1229.3	1047.0	919.9	871.4
37.5°	1261.1	1160.7	966.7	831.3	781.1
40°	1199.2	1090.5	879.8	740.9	689.1
42.5°	1139.0	1018.6	797.8	655.6	608.8
45°	1075.4	946.7	715.8	572.0	526.9
47.5°	1010.2	871.4	633.9	493.4	448.2
50°	943.3	797.8	553.6	416.5	376.3
52.5°	876.4	724.2	478.3	342.9	307.7
55°	809.5	648.9	401.4	277.6	244.2
57.5°	742.6	575.4	329.5	217.4	187.3
60°	674.0	500.1	260.9	160.6	152.2
62.5°	605.5	426.5	202.4	132.1	125.4
65°	535.2	351.2	145.5	107.0	100.4
67.5°	465.0	282.7	105.4	82.0	76.9
70°	391.4	215.8	82.0	61.9	56.9
72.5°	321.1	155.5	58.5	45.2	43.5
75°	257.6	100.4	40.1	33.5	33.5
77.5°	194.0	60.2	28.4	25.1	25.1
80°	135.5	35.1	20.1	18.4	18.4
82.5°	82.0	18.4	13.4	11.7	11.7
85°	35.1	10.0	8.4	6.7	6.7
87.5°	6.7	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)