

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: P1061547

Luminaire Tested: S125RDR-S1270D850-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D850-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

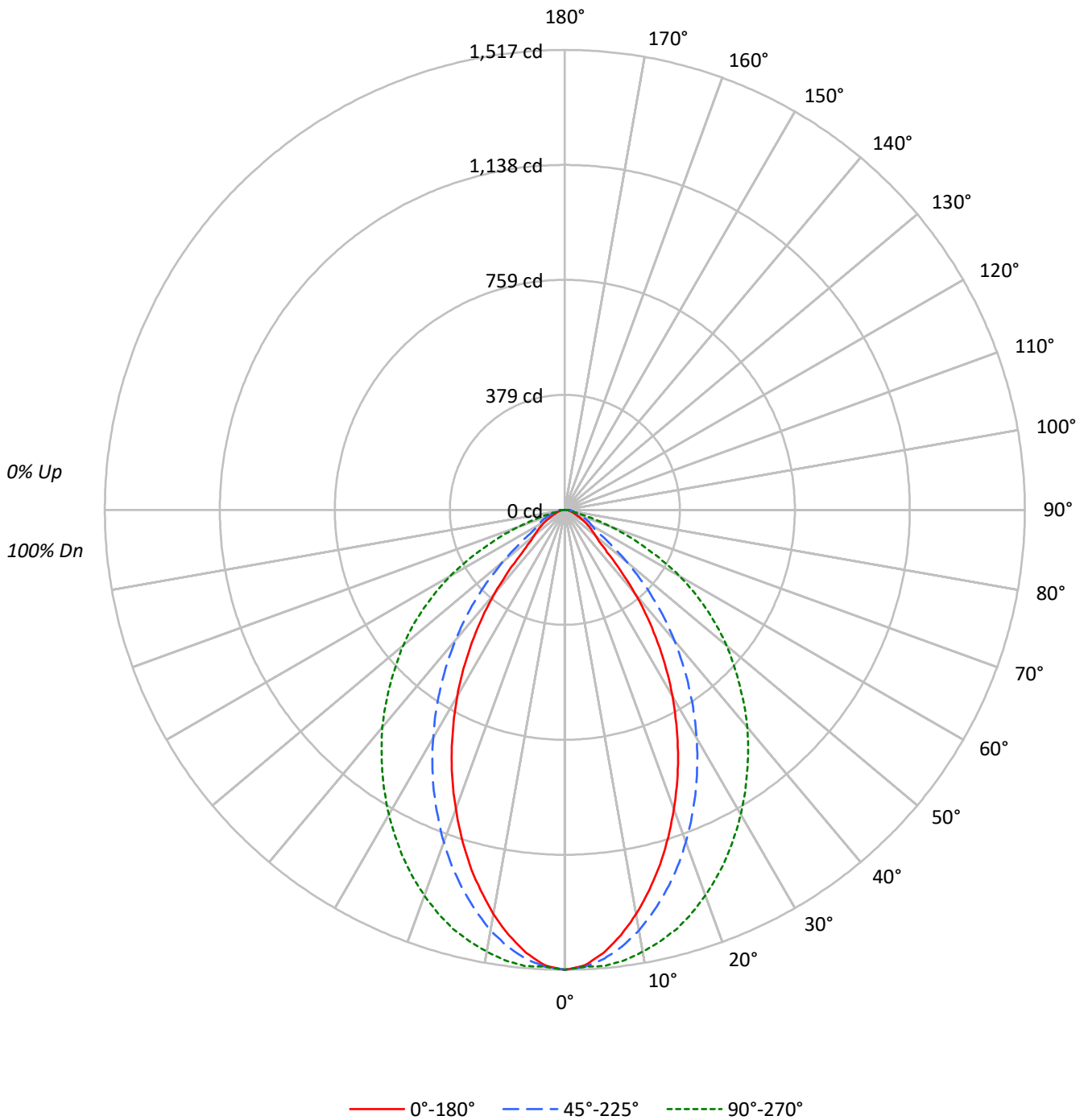
Lumens per Lamp: N/A
Luminaire Lumens: 2197.0 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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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CATALOG NUMBER: S125RDR-S1270D850-X4F0-XX-UDD-SVL-W

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	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10444	10444	10444
5°	10138	10271	10438
10°	9466	9850	10345
15°	8640	9249	10191
20°	7700	8551	9921
25°	6710	7763	9600
30°	5638	6907	9226
35°	4484	6002	8820
40°	3230	5041	8417
45°	1914	4002	7926
50°	1416	2849	7458
55°	1199	1761	6830
60°	976	1421	6015
65°	761	1313	4752
70°	648	1135	3181
75°	601	987	1288
80°	638	1023	896
85°	766	1525	1019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7926 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	6.4
10°-20°	367.2	16.7
20°-30°	479.9	21.8
30°-40°	467.5	21.3
40°-50°	350.6	16.0
50°-60°	219.8	10.0
60°-70°	114.4	5.2
70°-80°	41.4	1.9
80°-90°	16.4	0.7
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°	986.8	44.9
0°-40°	1454.3	66.2
0°-60°	2024.8	92.2
0°-90°	2197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1467	1486	1486	1497	1510	136
15°	1212	1248	1298	1378	1430	338
25°	883	932	1022	1160	1264	404
35°	534	590	714	904	1049	332
45°	197	255	411	635	814	165
55°	100	105	147	384	569	89
65°	47	50	81	155	292	48
75°	23	31	37	39	48	25
85°	10	16	19	18	13	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1516.8	1516.8	1516.8	1516.8	1516.8
2.5°	1503.9	1518.4	1508.7	1508.7	1508.7
5°	1466.8	1486.1	1486.1	1497.4	1510.3
7.5°	1415.2	1437.8	1452.3	1479.7	1499.0
10°	1354.0	1381.4	1408.8	1453.9	1479.7
12.5°	1284.7	1316.9	1355.6	1418.4	1457.1
15°	1212.1	1247.6	1297.6	1378.1	1429.7
17.5°	1133.1	1175.0	1234.7	1331.4	1394.3
20°	1050.9	1092.8	1167.0	1276.6	1354.0
22.5°	968.7	1013.9	1094.5	1218.6	1310.4
25°	883.3	931.7	1021.9	1160.5	1263.7
27.5°	796.3	846.2	946.2	1100.9	1212.1
30°	709.2	760.8	868.8	1036.4	1160.5
32.5°	622.2	677.0	791.4	970.3	1105.7
35°	533.5	589.9	714.1	904.3	1049.3
37.5°	448.1	504.5	636.7	836.6	992.9
40°	359.4	420.7	560.9	768.9	936.5
42.5°	272.4	335.3	485.2	701.2	875.2
45°	196.6	254.7	411.0	635.1	814.0
47.5°	151.5	183.8	335.3	567.4	754.4
50°	132.2	141.8	266.0	504.5	696.3
52.5°	114.4	120.9	199.9	446.5	633.5
55°	99.9	104.8	146.7	383.6	569.0
57.5°	83.8	90.3	116.1	322.4	502.9
60°	70.9	74.1	103.2	266.0	436.8
62.5°	58.0	61.3	91.9	209.5	362.7
65°	46.7	50.0	80.6	154.7	291.7
67.5°	38.7	40.3	67.7	109.6	224.0
70°	32.2	33.8	56.4	75.8	158.0
72.5°	27.4	32.2	45.1	54.8	99.9
75°	22.6	30.6	37.1	38.7	48.4
77.5°	19.3	29.0	30.6	30.6	27.4
80°	16.1	24.2	25.8	24.2	22.6
82.5°	12.9	19.3	21.0	21.0	17.7
85°	9.7	16.1	19.3	17.7	12.9
87.5°	6.4	14.5	16.1	14.5	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)