

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: P1061546

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
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-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

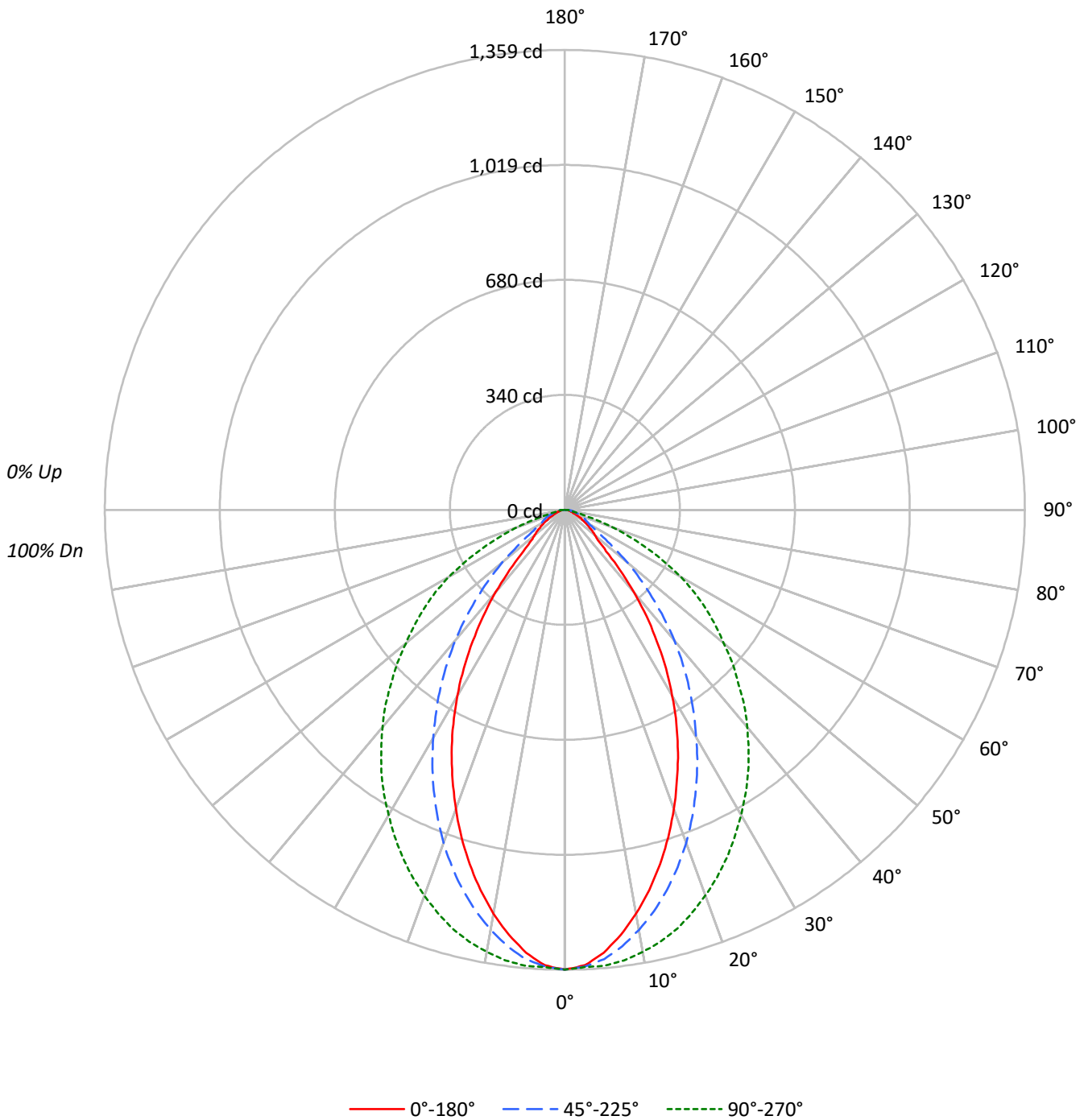
Lumens per Lamp: N/A
Luminaire Lumens: 1961.7 lumens
Efficiency: N/A
Efficacy: 46.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061546

CATALOG NUMBER: S125RDR-S1270D850-X4F0-XX-UDD-SVL-S

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	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	87	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	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	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	41	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9354	9354	9354
5°	9078	9212	9345
10°	8473	8811	9273
15°	7731	8294	9133
20°	6896	7675	8891
25°	6012	6954	8607
30°	5048	6176	8277
35°	3982	5378	7938
40°	2854	4519	7532
45°	1679	3546	7061
50°	1243	2555	6560
55°	1044	1547	6094
60°	843	1132	5437
65°	657	1077	4358
70°	552	1007	2953
75°	513	899	1285
80°	511	896	833
85°	640	1145	893

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7061 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	6.4
10°-20°	328.9	16.8
20°-30°	429.8	21.9
30°-40°	418.3	21.3
40°-50°	312.6	15.9
50°-60°	193.9	9.9
60°-70°	101.9	5.2
70°-80°	37.1	1.9
80°-90°	14.0	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°	883.8	45.1
0°-40°	1302.2	66.4
0°-60°	1808.7	92.2
0°-90°	1961.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1961.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1314	1331	1333	1341	1352	122
15°	1085	1117	1164	1234	1281	303
25°	791	832	915	1040	1133	361
35°	474	525	640	811	944	295
45°	172	226	364	569	725	145
55°	87	92	129	335	508	78
65°	40	44	66	142	268	42
75°	19	23	34	37	48	21
85°	8	14	14	14	11	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1358.6	1358.6	1358.6	1358.6	1358.6
2.5°	1347.3	1358.6	1350.5	1350.5	1352.1
5°	1313.5	1331.2	1332.8	1340.9	1352.1
7.5°	1266.7	1287.7	1300.6	1324.7	1342.5
10°	1211.9	1236.1	1260.3	1300.6	1326.3
12.5°	1150.7	1179.7	1215.1	1269.9	1307.0
15°	1084.6	1116.8	1163.6	1234.5	1281.2
17.5°	1015.3	1049.2	1107.2	1192.6	1249.0
20°	941.2	978.2	1047.5	1144.2	1213.5
22.5°	865.4	907.3	983.1	1092.7	1174.9
25°	791.3	831.6	915.4	1039.5	1133.0
27.5°	713.9	755.8	847.7	984.7	1087.8
30°	635.0	680.1	776.8	928.3	1041.1
32.5°	556.0	602.7	707.5	870.3	994.4
35°	473.8	525.4	639.8	810.6	944.4
37.5°	396.5	451.2	570.5	749.4	891.2
40°	317.5	373.9	502.8	689.8	838.0
42.5°	240.1	298.1	433.5	628.5	784.8
45°	172.4	225.6	364.2	568.9	725.2
47.5°	132.2	162.8	299.8	507.7	672.0
50°	116.0	125.7	238.5	448.0	612.4
52.5°	101.5	108.0	177.3	390.0	560.8
55°	87.0	91.9	128.9	335.2	507.7
57.5°	74.1	79.0	98.3	285.3	452.9
60°	61.2	66.1	82.2	235.3	394.8
62.5°	51.6	53.2	74.1	188.6	330.4
65°	40.3	43.5	66.1	141.8	267.5
67.5°	33.8	35.5	58.0	101.5	206.3
70°	27.4	29.0	50.0	70.9	146.7
72.5°	24.2	24.2	41.9	51.6	93.5
75°	19.3	22.6	33.8	37.1	48.3
77.5°	16.1	22.6	29.0	27.4	25.8
80°	12.9	21.0	22.6	22.6	21.0
82.5°	11.3	17.7	19.3	17.7	16.1
85°	8.1	14.5	14.5	14.5	11.3
87.5°	6.4	12.9	11.3	11.3	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)