

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: P1061549

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D850-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

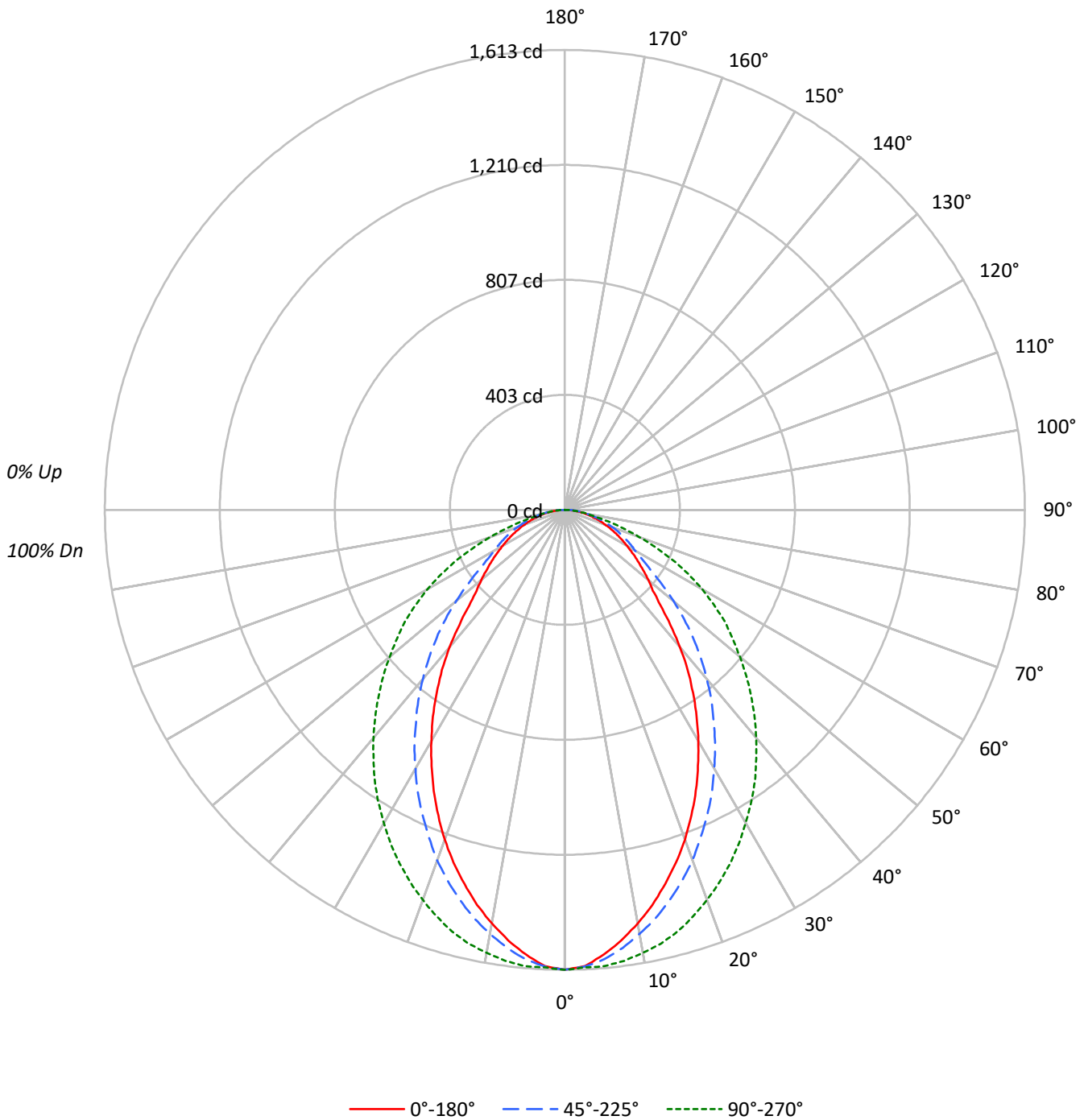
Lumens per Lamp: N/A
Luminaire Lumens: 3023.5 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11105	11105	11105
5°	10824	10935	11103
10°	10296	10555	11028
15°	9682	10107	10911
20°	9020	9586	10672
25°	8263	8972	10404
30°	7442	8326	10081
35°	6582	7651	9764
40°	5648	6966	9384
45°	4613	6197	8989
50°	4091	5316	8578
55°	3752	4410	8220
60°	3461	3905	7655
65°	3229	3754	6825
70°	3016	3567	5578
75°	2785	3344	4115
80°	2621	3128	3002
85°	2417	3057	2544

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8989 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	4.9
10°-20°	402.0	13.3
20°-30°	552.5	18.3
30°-40°	585.6	19.4
40°-50°	511.2	16.9
50°-60°	388.3	12.8
60°-70°	260.2	8.6
70°-80°	134.1	4.4
80°-90°	40.2	1.3
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°	1103.8	36.5
0°-40°	1689.4	55.9
0°-60°	2588.9	85.6
0°-90°	3023.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1566	1582	1582	1594	1606	147
15°	1358	1384	1418	1481	1531	381
25°	1088	1121	1181	1279	1370	499
35°	783	828	910	1039	1162	488
45°	474	520	636	788	923	374
55°	313	322	367	540	685	280
65°	198	203	230	308	419	197
75°	105	111	126	134	155	112
85°	31	39	39	35	32	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1601.5	1612.8	1603.2	1603.2	1606.4
5°	1566.1	1582.2	1582.2	1593.5	1606.4
7.5°	1522.6	1540.3	1550.0	1575.8	1595.1
10°	1472.7	1492.0	1509.7	1548.4	1577.4
12.5°	1419.5	1440.4	1467.8	1517.8	1558.0
15°	1358.3	1384.0	1417.9	1480.7	1530.7
17.5°	1297.0	1322.8	1364.7	1438.8	1495.2
20°	1231.0	1258.4	1308.3	1388.9	1456.5
22.5°	1160.1	1190.7	1243.9	1335.7	1414.6
25°	1087.6	1121.4	1181.0	1279.3	1369.5
27.5°	1011.8	1052.1	1116.6	1221.3	1321.2
30°	936.1	976.4	1047.3	1161.7	1268.0
32.5°	860.4	903.9	981.2	1102.1	1216.5
35°	783.1	828.2	910.3	1039.2	1161.7
37.5°	707.3	752.4	844.3	978.0	1102.1
40°	628.4	675.1	775.0	915.2	1044.1
42.5°	547.8	597.8	705.7	850.7	984.5
45°	473.7	520.4	636.4	787.9	923.2
47.5°	418.9	449.5	567.1	723.4	863.6
50°	381.9	398.0	496.3	660.6	800.8
52.5°	344.8	357.7	430.2	596.2	741.2
55°	312.6	322.2	367.4	539.8	684.8
57.5°	280.4	290.0	319.0	483.4	618.7
60°	251.3	259.4	283.6	423.7	555.9
62.5°	224.0	230.4	256.2	367.4	488.2
65°	198.2	203.0	230.4	307.7	418.9
67.5°	172.4	177.2	204.6	251.3	344.8
70°	149.8	151.5	177.2	204.6	277.1
72.5°	127.3	128.9	149.8	166.0	212.7
75°	104.7	111.2	125.7	133.7	154.7
77.5°	85.4	93.5	101.5	104.7	104.7
80°	66.1	75.7	78.9	78.9	75.7
82.5°	48.3	56.4	58.0	54.8	51.6
85°	30.6	38.7	38.7	35.4	32.2
87.5°	14.5	20.9	20.9	19.3	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)