

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: P1175359

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

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P1175359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S1270D850-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

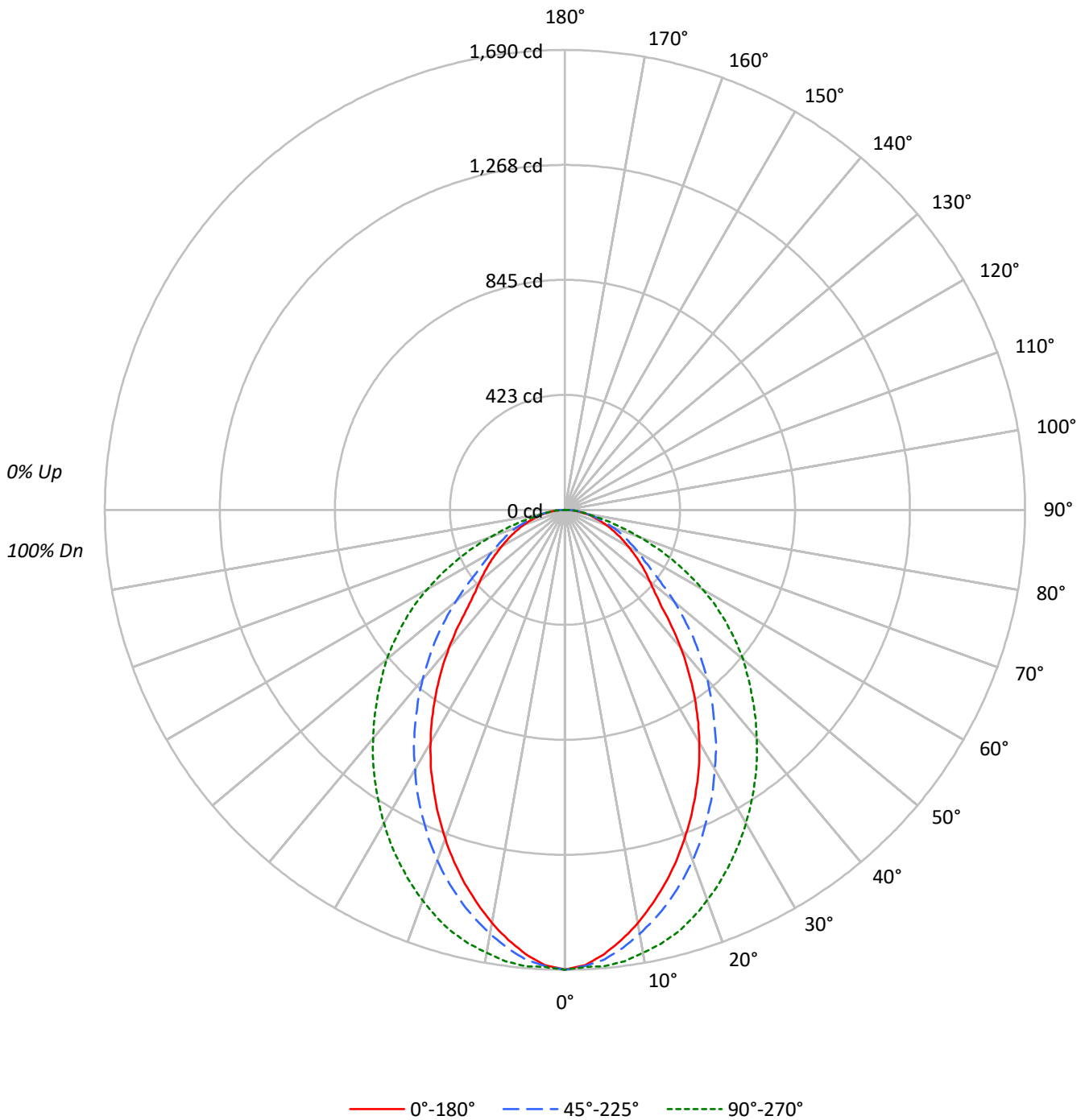
Lumens per Lamp: N/A
Luminaire Lumens: 3183.7 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1175359

CATALOG NUMBER: S125RDR-S1270D850-X4F0-XX-UDD-WVL-W

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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	73	69	77	72	68	74	70	66	64																												
4	86	75	67	61	84	74	66	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	47	59	52	47	58	51	47	56	51	46	44																												
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40																												
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36																												
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33																												
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11635	11635	11635
5°	11333	11462	11631
10°	10782	11063	11554
15°	10134	10594	11443
20°	9418	10049	11194
25°	8654	9417	10899
30°	7847	8748	10573
35°	6945	8043	10225
40°	5957	7311	9851
45°	4889	6509	9470
50°	4349	5594	9143
55°	4013	4684	8679
60°	3695	4267	8041
65°	3436	4019	7105
70°	3205	3754	5806
75°	3014	3472	4350
80°	2843	3184	3128
85°	2607	3176	2607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9470 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	4.9
10°-20°	421.7	13.2
20°-30°	580.1	18.2
30°-40°	615.3	19.3
40°-50°	538.6	16.9
50°-60°	413.2	13.0
60°-70°	275.3	8.6
70°-80°	141.1	4.4
80°-90°	41.9	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°	1158.3	36.4
0°-40°	1773.6	55.7
0°-60°	2725.4	85.6
0°-90°	3183.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3183.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1640	1661	1658	1670	1683	153
15°	1422	1455	1486	1556	1605	398
25°	1139	1178	1240	1344	1435	523
35°	826	865	957	1098	1216	515
45°	502	544	668	835	973	397
55°	334	341	390	580	723	300
65°	211	212	247	324	436	210
75°	113	120	130	138	164	120
85°	33	37	40	39	33	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1689.9	1689.9	1689.9	1689.9	1689.9
2.5°	1674.2	1691.4	1678.5	1679.9	1681.3
5°	1639.7	1661.2	1658.4	1669.9	1682.8
7.5°	1593.8	1616.8	1623.9	1652.6	1672.7
10°	1542.2	1568.0	1582.3	1625.4	1652.6
12.5°	1483.4	1513.5	1536.4	1592.4	1632.6
15°	1421.7	1454.7	1486.2	1556.5	1605.3
17.5°	1355.7	1388.7	1430.3	1510.6	1569.4
20°	1285.4	1321.3	1371.5	1457.5	1527.8
22.5°	1213.7	1251.0	1308.3	1403.0	1483.4
25°	1139.1	1177.8	1239.5	1344.2	1434.6
27.5°	1065.9	1101.8	1173.5	1285.4	1384.4
30°	987.0	1024.3	1100.3	1223.7	1329.9
32.5°	908.1	945.4	1032.9	1162.0	1273.9
35°	826.3	865.1	956.9	1097.5	1216.5
37.5°	744.5	784.7	886.6	1031.5	1157.7
40°	662.8	705.8	813.4	965.5	1096.0
42.5°	579.6	625.5	738.8	900.9	1035.8
45°	502.1	543.7	668.5	834.9	972.6
47.5°	446.2	470.5	593.9	767.5	912.4
50°	406.0	417.5	522.2	702.9	853.6
52.5°	370.1	377.3	451.9	642.7	789.0
55°	334.3	341.4	390.2	579.6	723.0
57.5°	299.8	304.1	344.3	516.5	657.0
60°	268.3	271.1	309.9	453.3	583.9
62.5°	239.6	241.0	276.9	388.8	510.7
65°	210.9	212.3	246.7	324.2	436.1
67.5°	185.1	185.1	218.1	265.4	364.4
70°	159.2	159.2	186.5	215.2	288.4
72.5°	136.3	139.2	157.8	173.6	225.2
75°	113.3	120.5	130.5	137.7	163.5
77.5°	91.8	100.4	104.7	107.6	109.0
80°	71.7	77.5	80.3	81.8	78.9
82.5°	53.1	57.4	58.8	58.8	54.5
85°	33.0	37.3	40.2	38.7	33.0
87.5°	15.8	21.5	23.0	20.1	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)