

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: P1061465

Luminaire Tested: S125RDR-S1090D850-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061465
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-S1090D850-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

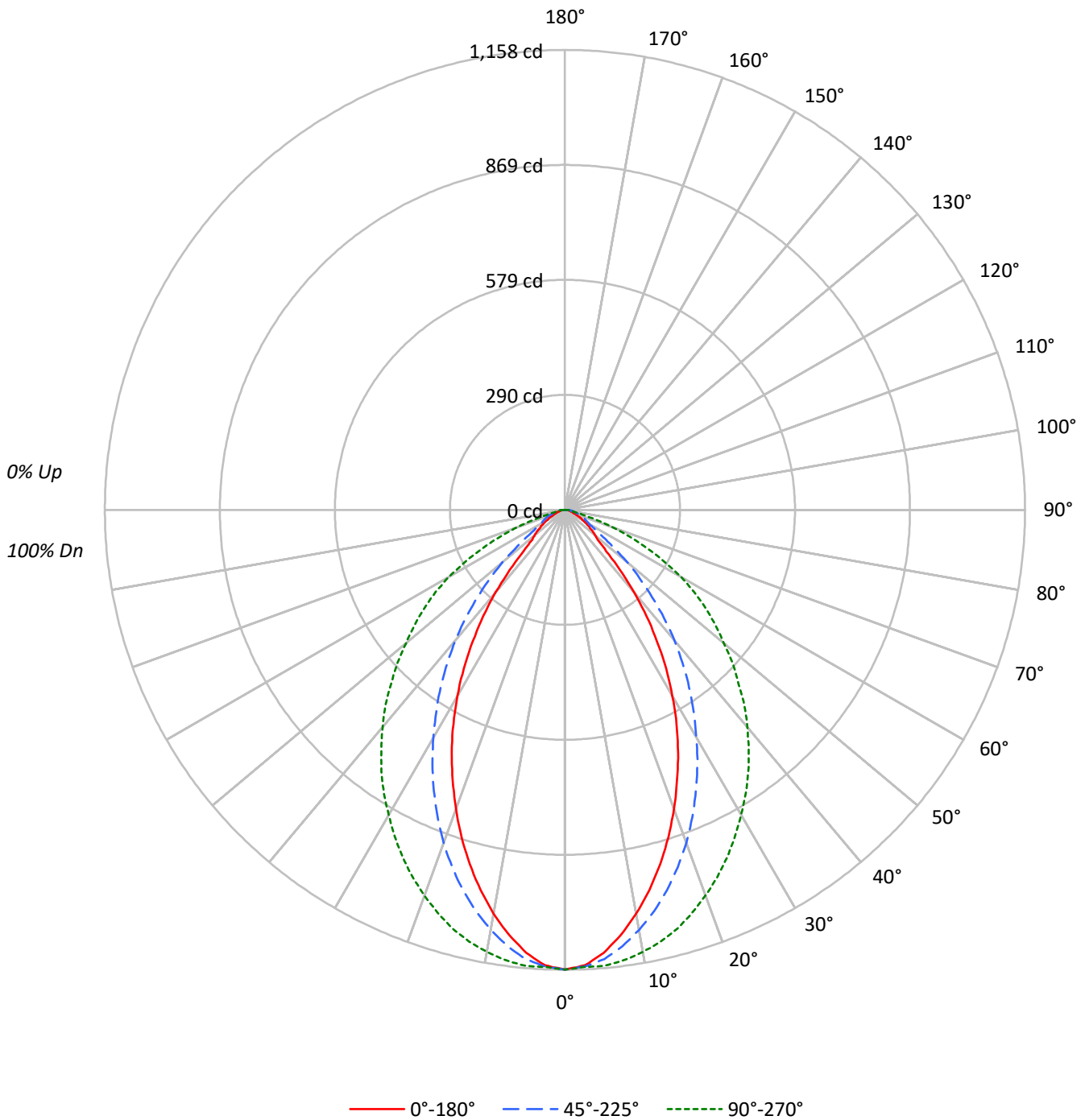
Lumens per Lamp: N/A
Luminaire Lumens: 1671.5 lumens
Efficiency: N/A
Efficacy: 47.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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: P1061465

CATALOG NUMBER: S125RDR-S1090D850-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7970	7970	7970
5°	7735	7849	7963
10°	7220	7507	7902
15°	6588	7068	7782
20°	5876	6540	7576
25°	5122	5926	7334
30°	4301	5262	7053
35°	3393	4583	6764
40°	2431	3850	6418
45°	1430	3021	6017
50°	1059	2177	5589
55°	891	1319	5193
60°	719	964	4632
65°	559	917	3715
70°	469	858	2516
75°	439	766	1096
80°	436	761	710
85°	545	980	758

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6017 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	6.4
10°-20°	280.2	16.8
20°-30°	366.2	21.9
30°-40°	356.5	21.3
40°-50°	266.4	15.9
50°-60°	165.2	9.9
60°-70°	86.8	5.2
70°-80°	31.6	1.9
80°-90°	12.0	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°	753.1	45.1
0°-40°	1109.5	66.4
0°-60°	1541.2	92.2
0°-90°	1671.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1671.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1119	1134	1136	1142	1152	104
15°	924	952	992	1052	1092	258
25°	674	709	780	886	965	308
35°	404	448	545	691	805	251
45°	147	192	310	485	618	124
55°	74	78	110	286	433	67
65°	34	37	56	121	228	36
75°	16	19	29	32	41	18
85°	7	12	12	12	10	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1157.6	1157.6	1157.6	1157.6	1157.6
2.5°	1148.0	1157.6	1150.7	1150.7	1152.1
5°	1119.2	1134.3	1135.6	1142.5	1152.1
7.5°	1079.3	1097.2	1108.2	1128.8	1143.9
10°	1032.7	1053.3	1073.8	1108.2	1130.2
12.5°	980.5	1005.2	1035.4	1082.1	1113.7
15°	924.2	951.6	991.5	1051.9	1091.7
17.5°	865.1	894.0	943.4	1016.2	1064.2
20°	802.0	833.5	892.6	975.0	1034.0
22.5°	737.4	773.1	837.7	931.0	1001.1
25°	674.2	708.6	780.0	885.7	965.4
27.5°	608.3	644.0	722.3	839.0	926.9
30°	541.0	579.5	661.9	791.0	887.1
32.5°	473.8	513.6	602.8	741.5	847.3
35°	403.7	447.7	545.2	690.7	804.7
37.5°	337.8	384.5	486.1	638.5	759.4
40°	270.5	318.6	428.4	587.7	714.1
42.5°	204.6	254.0	369.4	535.6	668.8
45°	146.9	192.2	310.3	484.7	617.9
47.5°	112.6	138.7	255.4	432.6	572.6
50°	98.9	107.1	203.2	381.8	521.8
52.5°	86.5	92.0	151.1	332.3	477.9
55°	74.2	78.3	109.9	285.6	432.6
57.5°	63.2	67.3	83.8	243.1	385.9
60°	52.2	56.3	70.0	200.5	336.4
62.5°	43.9	45.3	63.2	160.7	281.5
65°	34.3	37.1	56.3	120.8	228.0
67.5°	28.8	30.2	49.4	86.5	175.8
70°	23.3	24.7	42.6	60.4	125.0
72.5°	20.6	20.6	35.7	43.9	79.6
75°	16.5	19.2	28.8	31.6	41.2
77.5°	13.7	19.2	24.7	23.3	22.0
80°	11.0	17.9	19.2	19.2	17.9
82.5°	9.6	15.1	16.5	15.1	13.7
85°	6.9	12.4	12.4	12.4	9.6
87.5°	5.5	11.0	9.6	9.6	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)