

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 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: S125RDRP-S1090D850-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
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: S125RDRP-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

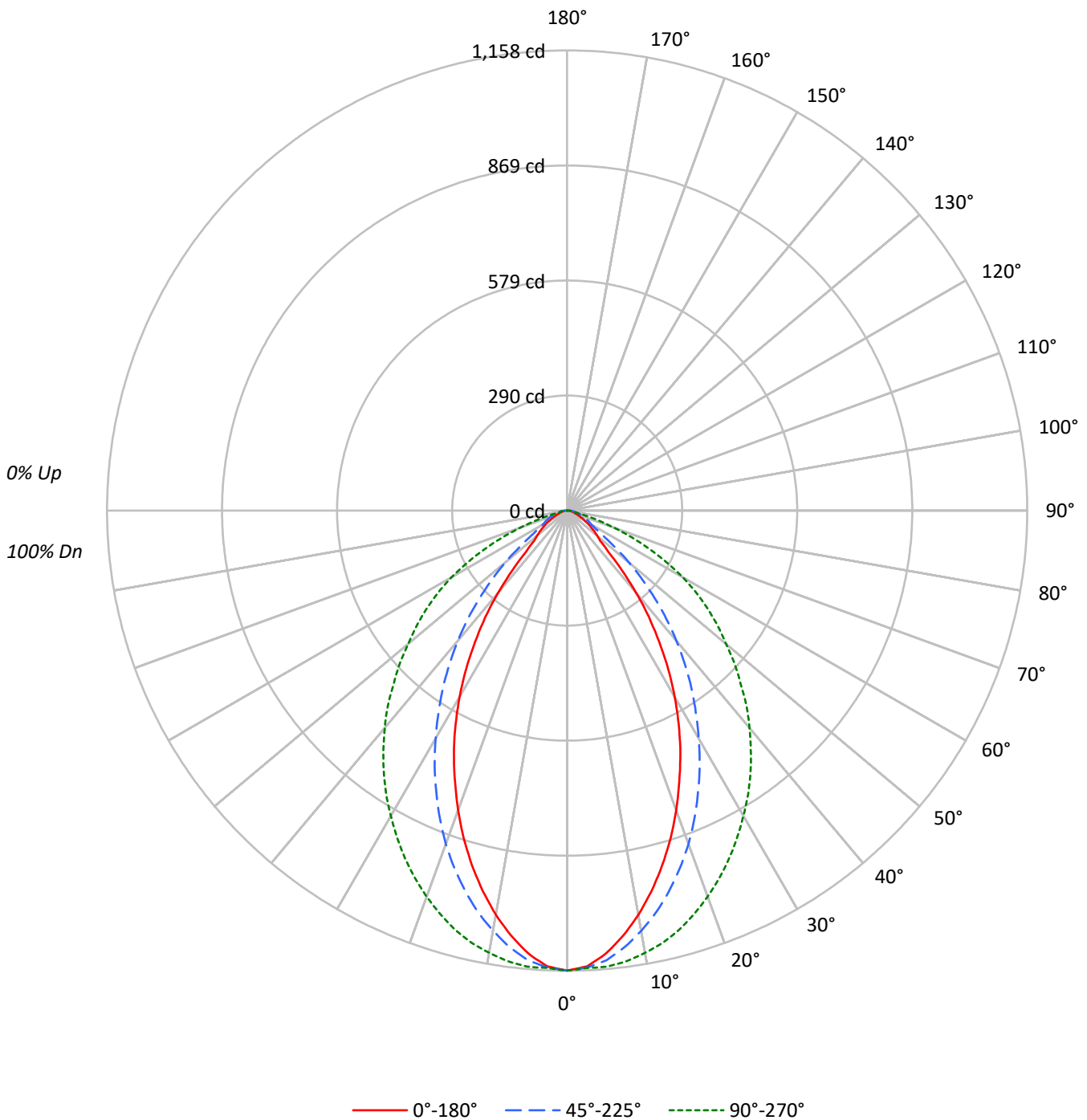
Lumens per Lamp: N/A
Luminaire Lumens: 1671.5 lumens
Efficiency: N/A
Efficacy: 47.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): 120
Input Current (A_{in}): 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	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



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	7.00	8.35	7.37	8.66	8.98	16.70	18.05	17.07	18.37	18.68
	3H	7.84	9.04	8.22	9.36	9.73	17.62	18.81	18.00	19.14	19.51
	4H	8.20	9.31	8.60	9.66	10.05	17.71	18.83	18.12	19.18	19.56
	6H	8.57	9.60	8.98	9.97	10.36	17.70	18.73	18.11	19.10	19.49
	8H	8.75	9.72	9.18	10.11	10.52	17.69	18.66	18.12	19.05	19.46
	12H	8.91	9.84	9.35	10.23	10.66	17.67	18.60	18.11	18.99	19.42
4H	2H	7.83	8.95	8.23	9.30	9.68	16.55	17.67	16.96	18.02	18.40
	3H	8.89	9.80	9.30	10.20	10.61	17.54	18.46	17.96	18.86	19.26
	4H	9.34	10.16	9.77	10.58	11.02	17.67	18.49	18.11	18.91	19.35
	6H	9.90	10.60	10.36	11.05	11.52	17.70	18.41	18.17	18.86	19.32
	8H	10.16	10.82	10.63	11.26	11.73	17.70	18.36	18.17	18.81	19.28
	12H	10.40	10.98	10.89	11.47	11.94	17.71	18.30	18.20	18.78	19.25
8H	4H	9.89	10.55	10.36	11.00	11.47	17.60	18.26	18.07	18.70	19.17
	6H	10.67	11.21	11.17	11.71	12.19	17.66	18.20	18.16	18.69	19.17
	8H	11.09	11.57	11.61	12.09	12.58	17.69	18.17	18.21	18.68	19.18
	12H	11.51	11.94	12.02	12.43	13.00	17.74	18.17	18.25	18.66	19.23
12H	4H	9.95	10.54	10.44	11.02	11.49	17.56	18.15	18.05	18.63	19.10
	6H	10.82	11.30	11.34	11.82	12.31	17.62	18.11	18.14	18.62	19.11
	8H	11.35	11.77	11.86	12.27	12.84	17.69	18.12	18.20	18.61	19.18