

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: P1061564

Luminaire Tested: S125RDRP-S1270D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061564
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-S1270D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

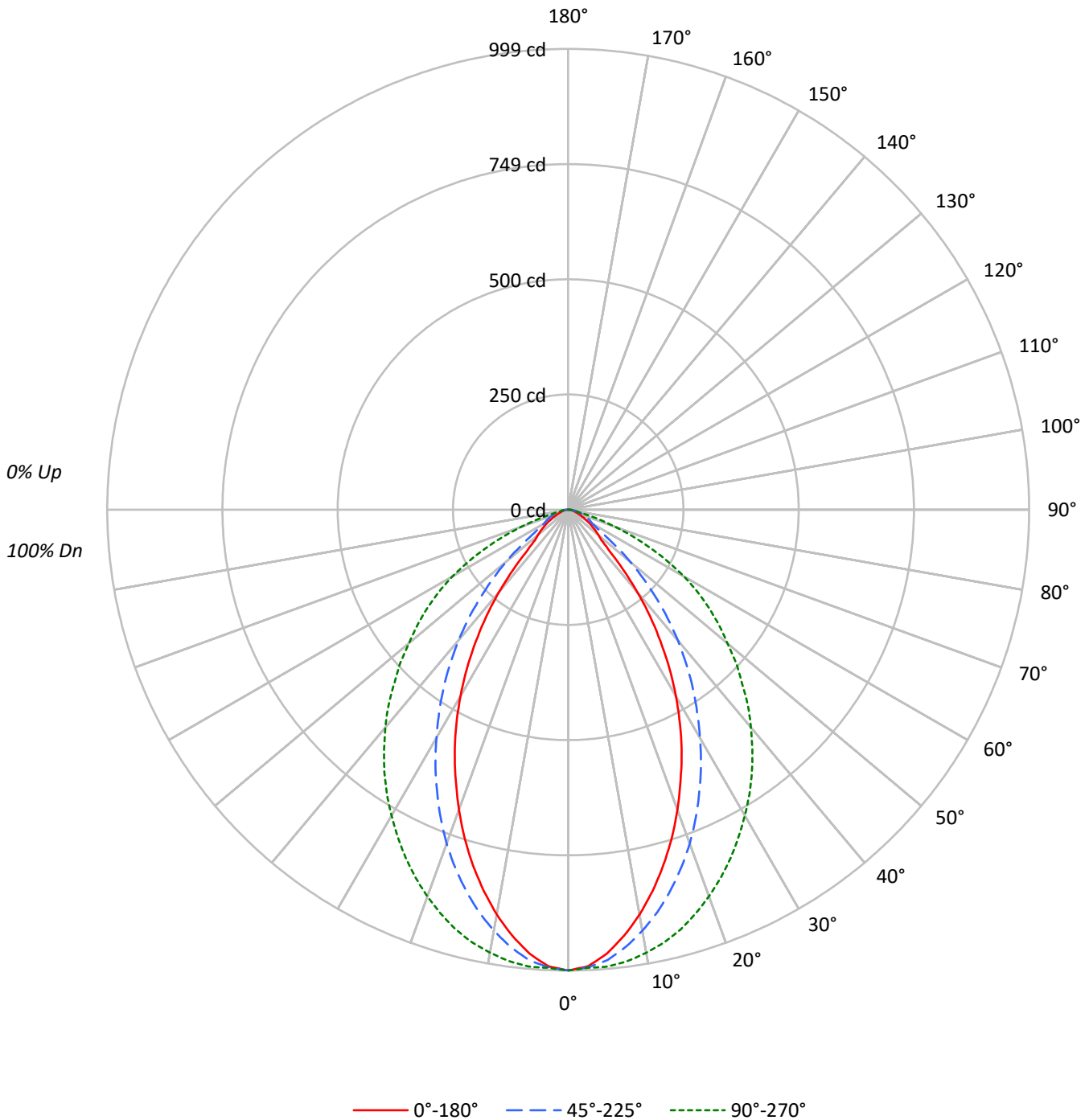
Lumens per Lamp: N/A
Luminaire Lumens: 1442.2 lumens
Efficiency: N/A
Efficacy: 34.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (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°	6877	6877	6877
5°	6674	6772	6870
10°	6229	6478	6817
15°	5684	6097	6714
20°	5070	5643	6537
25°	4419	5113	6328
30°	3711	4540	6085
35°	2928	3954	5836
40°	2098	3323	5538
45°	1235	2608	5192
50°	914	1878	4822
55°	768	1138	4480
60°	620	832	3998
65°	482	792	3205
70°	405	739	2170
75°	378	662	944
80°	377	658	611
85°	466	845	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5192 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	6.4
10°-20°	241.8	16.8
20°-30°	316.0	21.9
30°-40°	307.6	21.3
40°-50°	229.9	15.9
50°-60°	142.6	9.9
60°-70°	74.9	5.2
70°-80°	27.3	1.9
80°-90°	10.3	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°	649.7	45.1
0°-40°	957.3	66.4
0°-60°	1329.7	92.2
0°-90°	1442.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1442.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	966	979	980	986	994	90
15°	797	821	855	908	942	223
25°	582	611	673	764	833	266
35°	348	386	470	596	694	217
45°	127	166	268	418	533	107
55°	64	68	95	246	373	58
65°	30	32	49	104	197	31
75°	14	17	25	27	36	15
85°	6	11	11	11	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.8	998.8	998.8	998.8	998.8
2.5°	990.5	998.8	992.9	992.9	994.0
5°	965.6	978.6	979.8	985.7	994.0
7.5°	931.2	946.6	956.1	973.9	986.9
10°	891.0	908.7	926.5	956.1	975.1
12.5°	845.9	867.3	893.3	933.6	960.9
15°	797.4	821.1	855.4	907.6	941.9
17.5°	746.4	771.3	814.0	876.7	918.2
20°	691.9	719.2	770.1	841.2	892.1
22.5°	636.2	667.0	722.7	803.3	863.7
25°	581.7	611.4	673.0	764.2	832.9
27.5°	524.9	555.7	623.2	723.9	799.7
30°	466.8	500.0	571.1	682.4	765.4
32.5°	408.8	443.1	520.1	639.8	731.0
35°	348.3	386.2	470.4	596.0	694.3
37.5°	291.5	331.7	419.4	550.9	655.2
40°	233.4	274.9	369.7	507.1	616.1
42.5°	176.5	219.2	318.7	462.1	577.0
45°	126.8	165.9	267.8	418.2	533.2
47.5°	97.2	119.7	220.4	373.2	494.1
50°	85.3	92.4	175.3	329.4	450.2
52.5°	74.6	79.4	130.3	286.7	412.3
55°	64.0	67.5	94.8	246.4	373.2
57.5°	54.5	58.1	72.3	209.7	332.9
60°	45.0	48.6	60.4	173.0	290.3
62.5°	37.9	39.1	54.5	138.6	242.9
65°	29.6	32.0	48.6	104.3	196.7
67.5°	24.9	26.1	42.7	74.6	151.7
70°	20.1	21.3	36.7	52.1	107.8
72.5°	17.8	17.8	30.8	37.9	68.7
75°	14.2	16.6	24.9	27.3	35.5
77.5°	11.8	16.6	21.3	20.1	19.0
80°	9.5	15.4	16.6	16.6	15.4
82.5°	8.3	13.0	14.2	13.0	11.8
85°	5.9	10.7	10.7	10.7	8.3
87.5°	4.7	9.5	8.3	8.3	5.9
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	6.49	7.84	6.85	8.15	8.47	16.19	17.54	16.56	17.85	18.17
	3H	7.33	8.53	7.71	8.86	9.22	17.10	18.30	17.48	18.63	18.99
	4H	7.69	8.80	8.09	9.15	9.54	17.20	18.32	17.60	18.67	19.05
	6H	8.06	9.09	8.47	9.46	9.85	17.19	18.21	17.60	18.58	18.98
	8H	8.24	9.21	8.67	9.60	10.01	17.17	18.15	17.60	18.54	18.94
	12H	8.40	9.33	8.83	9.72	10.15	17.16	18.09	17.59	18.47	18.90
4H	2H	7.32	8.44	7.72	8.79	9.17	16.04	17.16	16.44	17.51	17.89
	3H	8.38	9.29	8.79	9.69	10.10	17.03	17.94	17.44	18.35	18.75
	4H	8.83	9.65	9.27	10.07	10.51	17.16	17.98	17.59	18.39	18.84
	6H	9.39	10.09	9.85	10.54	11.00	17.19	17.90	17.65	18.34	18.81
	8H	9.65	10.31	10.12	10.75	11.22	17.19	17.85	17.66	18.30	18.77
	12H	9.89	10.47	10.37	10.95	11.43	17.20	17.78	17.69	18.27	18.74
8H	4H	9.38	10.04	9.85	10.49	10.96	17.08	17.74	17.55	18.19	18.66
	6H	10.16	10.70	10.66	11.20	11.68	17.14	17.68	17.64	18.18	18.66
	8H	10.58	11.06	11.10	11.58	12.07	17.17	17.66	17.69	18.17	18.66
	12H	10.99	11.42	11.51	11.92	12.49	17.23	17.65	17.74	18.15	18.72
12H	4H	9.45	10.03	9.93	10.51	10.99	17.05	17.63	17.53	18.11	18.59
	6H	10.31	10.79	10.83	11.31	11.80	17.11	17.59	17.63	18.11	18.60
	8H	10.83	11.26	11.35	11.75	12.33	17.17	17.60	17.69	18.10	18.67