

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: P1061574

Luminaire Tested: S125RDRP-S1270D935-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D935-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

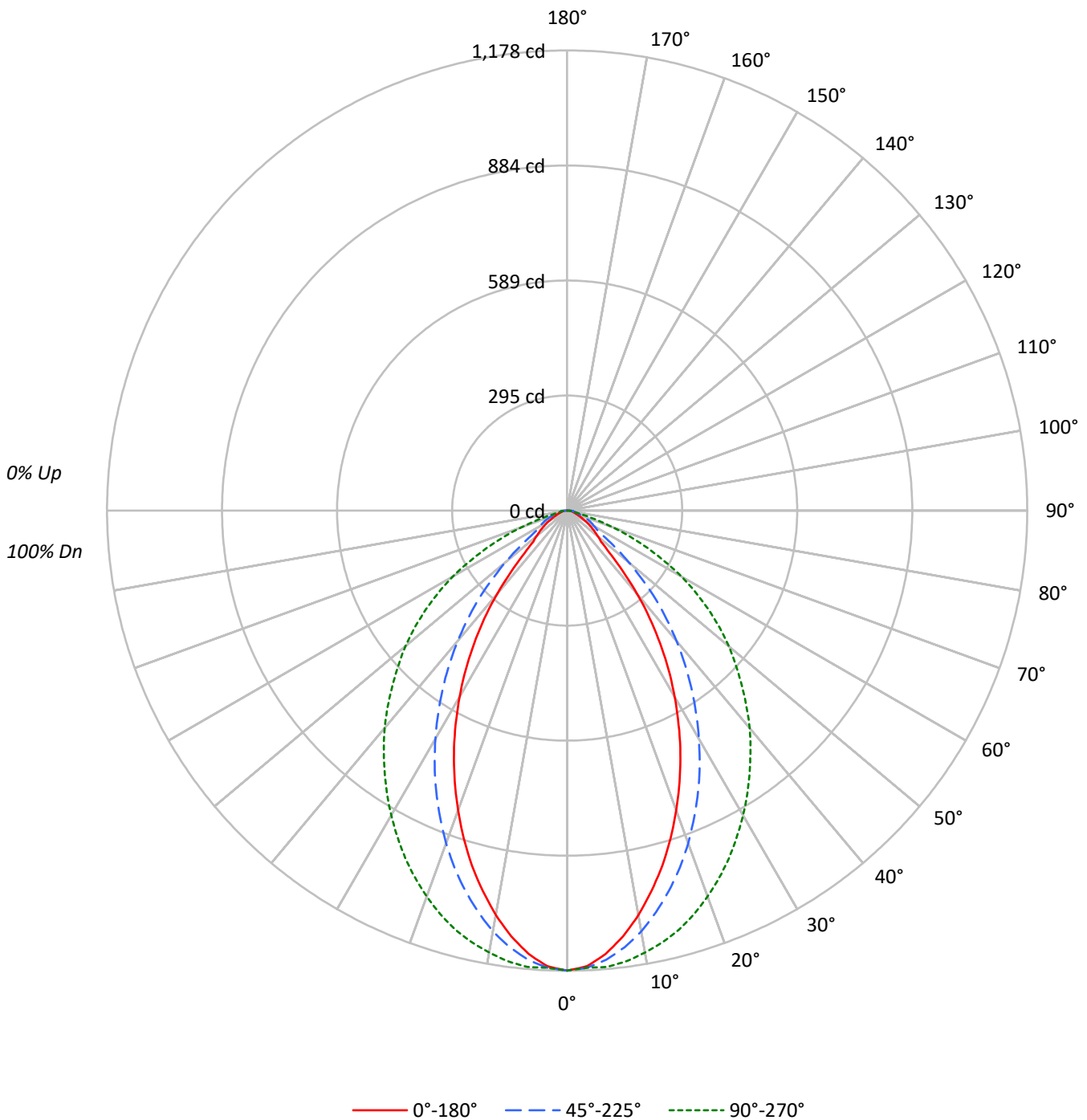
Lumens per Lamp: N/A
Luminaire Lumens: 1705.7 lumens
Efficiency: N/A
Efficacy: 40.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	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	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8108	8108	8108
5°	7871	7975	8104
10°	7349	7647	8032
15°	6708	7181	7912
20°	5978	6638	7702
25°	5210	6027	7453
30°	4377	5363	7163
35°	3481	4660	6848
40°	2509	3914	6535
45°	1487	3107	6154
50°	1099	2212	5791
55°	932	1367	5302
60°	759	1103	4670
65°	591	1020	3690
70°	503	882	2468
75°	466	766	998
80°	496	793	694
85°	592	1185	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6154 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	6.4
10°-20°	285.1	16.7
20°-30°	372.6	21.8
30°-40°	362.9	21.3
40°-50°	272.2	16.0
50°-60°	170.7	10.0
60°-70°	88.8	5.2
70°-80°	32.1	1.9
80°-90°	12.7	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°	766.2	44.9
0°-40°	1129.1	66.2
0°-60°	1572.0	92.2
0°-90°	1705.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1139	1154	1154	1163	1173	106
15°	941	969	1007	1070	1110	262
25°	686	723	793	901	981	313
35°	414	458	554	702	815	257
45°	153	198	319	493	632	128
55°	78	81	114	298	442	69
65°	36	39	63	120	226	37
75°	18	24	29	30	38	19
85°	8	12	15	14	10	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1177.6	1177.6	1177.6	1177.6	1177.6
2.5°	1167.6	1178.8	1171.3	1171.3	1171.3
5°	1138.8	1153.8	1153.8	1162.6	1172.6
7.5°	1098.7	1116.3	1127.5	1148.8	1163.8
10°	1051.2	1072.5	1093.7	1128.8	1148.8
12.5°	997.4	1022.4	1052.4	1101.2	1131.3
15°	941.1	968.6	1007.4	1070.0	1110.0
17.5°	879.7	912.3	958.6	1033.7	1082.5
20°	815.9	848.5	906.0	991.1	1051.2
22.5°	752.1	787.1	849.7	946.1	1017.4
25°	685.8	723.3	793.4	901.0	981.1
27.5°	618.2	657.0	734.6	854.7	941.1
30°	550.6	590.7	674.5	804.7	901.0
32.5°	483.0	525.6	614.4	753.3	858.5
35°	414.2	458.0	554.4	702.0	814.7
37.5°	347.9	391.7	494.3	649.5	770.9
40°	279.1	326.6	435.5	596.9	727.1
42.5°	211.5	260.3	376.7	544.4	679.5
45°	152.7	197.7	319.1	493.1	632.0
47.5°	117.6	142.7	260.3	440.5	585.7
50°	102.6	110.1	206.5	391.7	540.6
52.5°	88.8	93.9	155.2	346.6	491.8
55°	77.6	81.3	113.9	297.8	441.7
57.5°	65.1	70.1	90.1	250.3	390.4
60°	55.1	57.6	80.1	206.5	339.1
62.5°	45.1	47.6	71.3	162.7	281.6
65°	36.3	38.8	62.6	120.1	226.5
67.5°	30.0	31.3	52.6	85.1	173.9
70°	25.0	26.3	43.8	58.8	122.6
72.5°	21.3	25.0	35.0	42.5	77.6
75°	17.5	23.8	28.8	30.0	37.5
77.5°	15.0	22.5	23.8	23.8	21.3
80°	12.5	18.8	20.0	18.8	17.5
82.5°	10.0	15.0	16.3	16.3	13.8
85°	7.5	12.5	15.0	13.8	10.0
87.5°	5.0	11.3	12.5	11.3	7.5
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	7.19	8.54	7.56	8.86	9.17	16.80	18.15	17.17	18.47	18.78
	3H	8.05	9.25	8.43	9.58	9.94	17.64	18.84	18.02	19.17	19.54
	4H	8.47	9.59	8.87	9.94	10.32	17.72	18.84	18.12	19.19	19.57
	6H	8.90	9.93	9.31	10.30	10.69	17.70	18.73	18.11	19.10	19.49
	8H	9.08	10.05	9.51	10.44	10.85	17.69	18.66	18.12	19.05	19.46
	12H	9.24	10.17	9.67	10.55	10.98	17.68	18.61	18.11	18.99	19.42
4H	2H	8.15	9.27	8.56	9.62	10.01	16.67	17.78	17.07	18.14	18.52
	3H	9.21	10.12	9.62	10.53	10.93	17.58	18.49	17.99	18.90	19.30
	4H	9.77	10.59	10.20	11.01	11.45	17.68	18.50	18.11	18.92	19.36
	6H	10.37	11.08	10.83	11.52	11.99	17.70	18.41	18.17	18.86	19.32
	8H	10.60	11.27	11.07	11.71	12.18	17.71	18.37	18.17	18.81	19.28
	12H	10.83	11.42	11.32	11.90	12.37	17.72	18.30	18.20	18.79	19.26
8H	4H	10.24	10.90	10.71	11.35	11.82	17.60	18.26	18.07	18.71	19.18
	6H	11.05	11.59	11.55	12.09	12.57	17.66	18.20	18.16	18.69	19.17
	8H	11.43	11.92	11.95	12.43	12.92	17.69	18.18	18.21	18.69	19.18
	12H	11.82	12.25	12.34	12.75	13.32	17.75	18.18	18.27	18.68	19.25
12H	4H	10.29	10.88	10.78	11.36	11.83	17.57	18.15	18.05	18.64	19.11
	6H	11.17	11.66	11.70	12.18	12.67	17.62	18.11	18.14	18.62	19.12
	8H	11.66	12.09	12.18	12.59	13.16	17.69	18.12	18.21	18.62	19.19