

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: P1061726

Luminaire Tested: S125RDRP-S610D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061726
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-S610D930-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

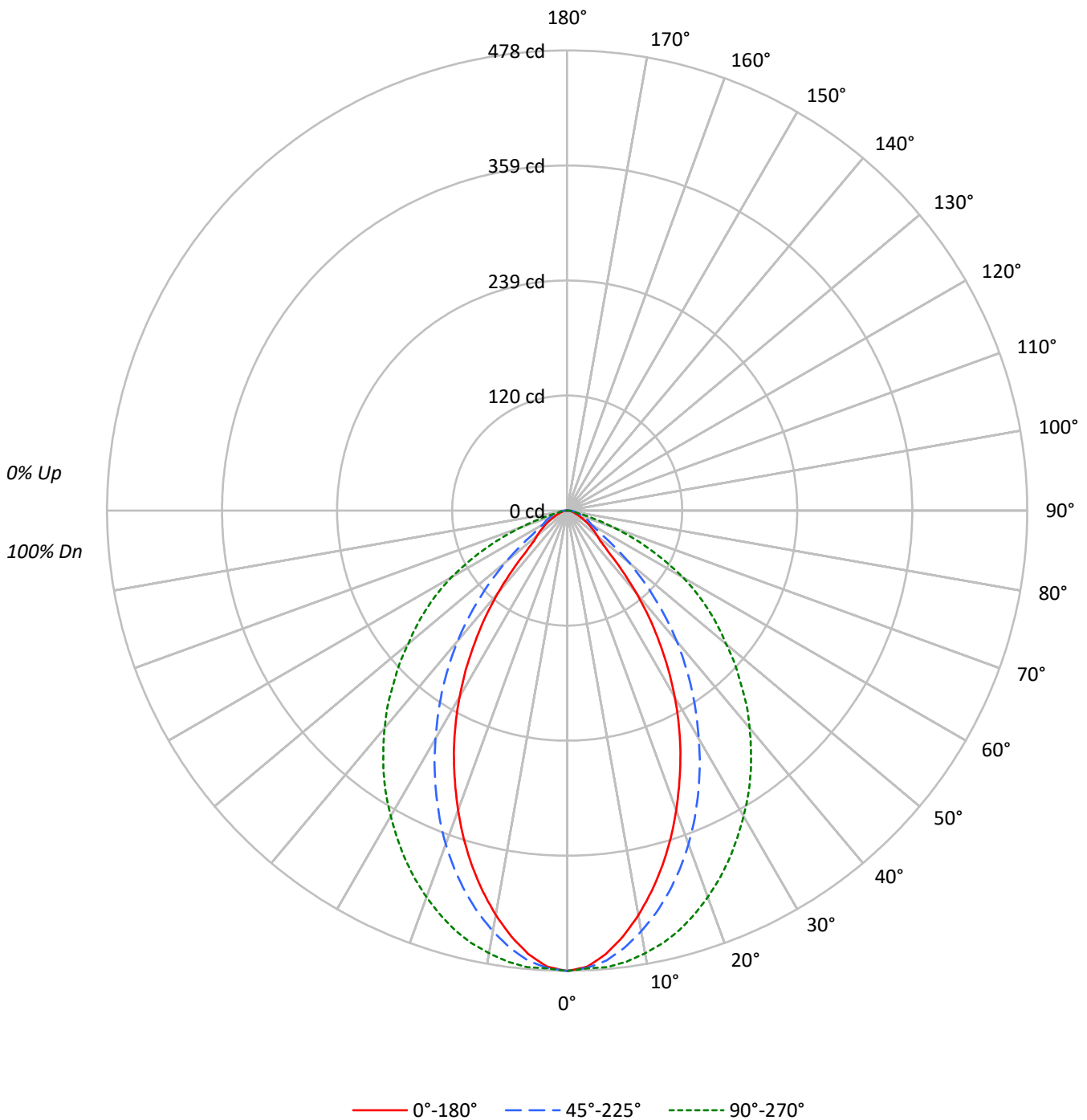
Lumens per Lamp: N/A
Luminaire Lumens: 690.5 lumens
Efficiency: N/A
Efficacy: 35.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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°	3293	3293	3293
5°	3196	3243	3290
10°	2983	3101	3264
15°	2722	2920	3215
20°	2427	2702	3130
25°	2116	2448	3030
30°	1777	2174	2914
35°	1402	1893	2794
40°	1005	1591	2651
45°	591	1248	2486
50°	437	900	2309
55°	367	545	2145
60°	297	398	1914
65°	231	380	1535
70°	193	354	1039
75°	181	317	452
80°	178	313	293
85°	221	403	316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2486 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	6.4
10°-20°	115.8	16.8
20°-30°	151.3	21.9
30°-40°	147.3	21.3
40°-50°	110.1	15.9
50°-60°	68.3	9.9
60°-70°	35.9	5.2
70°-80°	13.1	1.9
80°-90°	4.9	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°	311.1	45.1
0°-40°	458.4	66.4
0°-60°	636.7	92.2
0°-90°	690.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	690.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	462	469	469	472	476	43
15°	382	393	410	435	451	107
25°	278	293	322	366	399	127
35°	167	185	225	285	332	104
45°	61	79	128	200	255	51
55°	31	32	45	118	179	28
65°	14	15	23	50	94	15
75°	7	8	12	13	17	7
85°	3	5	5	5	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	478.2	478.2	478.2	478.2	478.2
2.5°	474.3	478.2	475.4	475.4	476.0
5°	462.4	468.6	469.2	472.0	476.0
7.5°	445.9	453.3	457.8	466.3	472.6
10°	426.6	435.1	443.6	457.8	466.9
12.5°	405.1	415.3	427.8	447.0	460.1
15°	381.8	393.1	409.6	434.6	451.0
17.5°	357.4	369.3	389.7	419.8	439.7
20°	331.3	344.4	368.8	402.8	427.2
22.5°	304.6	319.4	346.1	384.6	413.6
25°	278.5	292.7	322.2	365.9	398.8
27.5°	251.3	266.1	298.4	346.6	382.9
30°	223.5	239.4	273.4	326.8	366.5
32.5°	195.7	212.2	249.0	306.3	350.0
35°	166.8	184.9	225.2	285.4	332.4
37.5°	139.6	158.8	200.8	263.8	313.7
40°	111.8	131.6	177.0	242.8	295.0
42.5°	84.5	105.0	152.6	221.3	276.3
45°	60.7	79.4	128.2	200.3	255.3
47.5°	46.5	57.3	105.5	178.7	236.6
50°	40.8	44.3	84.0	157.7	215.6
52.5°	35.7	38.0	62.4	137.3	197.4
55°	30.6	32.3	45.4	118.0	178.7
57.5°	26.1	27.8	34.6	100.4	159.4
60°	21.6	23.3	28.9	82.8	139.0
62.5°	18.2	18.7	26.1	66.4	116.3
65°	14.2	15.3	23.3	49.9	94.2
67.5°	11.9	12.5	20.4	35.7	72.6
70°	9.6	10.2	17.6	25.0	51.6
72.5°	8.5	8.5	14.8	18.2	32.9
75°	6.8	7.9	11.9	13.0	17.0
77.5°	5.7	7.9	10.2	9.6	9.1
80°	4.5	7.4	7.9	7.9	7.4
82.5°	4.0	6.2	6.8	6.2	5.7
85°	2.8	5.1	5.1	5.1	4.0
87.5°	2.3	4.5	4.0	4.0	2.8
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	3.93	5.28	4.29	5.59	5.91	13.63	14.98	14.00	15.29	15.61
	3H	4.77	5.96	5.15	6.29	6.66	14.54	15.74	14.92	16.07	16.43
	4H	5.12	6.24	5.53	6.59	6.97	14.64	15.76	15.04	16.11	16.49
	6H	5.50	6.52	5.91	6.89	7.29	14.63	15.65	15.04	16.02	16.42
	8H	5.68	6.65	6.11	7.04	7.45	14.61	15.59	15.04	15.98	16.38
	12H	5.84	6.77	6.27	7.15	7.58	14.60	15.53	15.03	15.91	16.34
4H	2H	4.76	5.88	5.16	6.23	6.61	13.48	14.60	13.88	14.95	15.33
	3H	5.82	6.73	6.23	7.13	7.54	14.47	15.39	14.88	15.79	16.19
	4H	6.27	7.09	6.70	7.50	7.95	14.60	15.42	15.03	15.84	16.28
	6H	6.82	7.53	7.29	7.98	8.44	14.63	15.34	15.09	15.78	16.25
	8H	7.08	7.74	7.55	8.19	8.66	14.63	15.29	15.10	15.74	16.21
	12H	7.32	7.91	7.81	8.39	8.86	14.64	15.22	15.13	15.71	16.18
8H	4H	6.82	7.48	7.29	7.93	8.40	14.52	15.18	14.99	15.63	16.10
	6H	7.60	8.14	8.10	8.63	9.11	14.58	15.12	15.08	15.62	16.10
	8H	8.01	8.50	8.53	9.01	9.50	14.61	15.10	15.13	15.61	16.10
	12H	8.43	8.86	8.94	9.35	9.92	14.67	15.09	15.18	15.59	16.16
12H	4H	6.88	7.47	7.37	7.95	8.42	14.49	15.07	14.98	15.56	16.03
	6H	7.74	8.23	8.26	8.74	9.23	14.55	15.03	15.07	15.55	16.04
	8H	8.27	8.70	8.78	9.19	9.76	14.61	15.04	15.13	15.54	16.11