

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



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: P1062131

Luminaire Tested: S125RDR-H610D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062131
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-H610D930-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

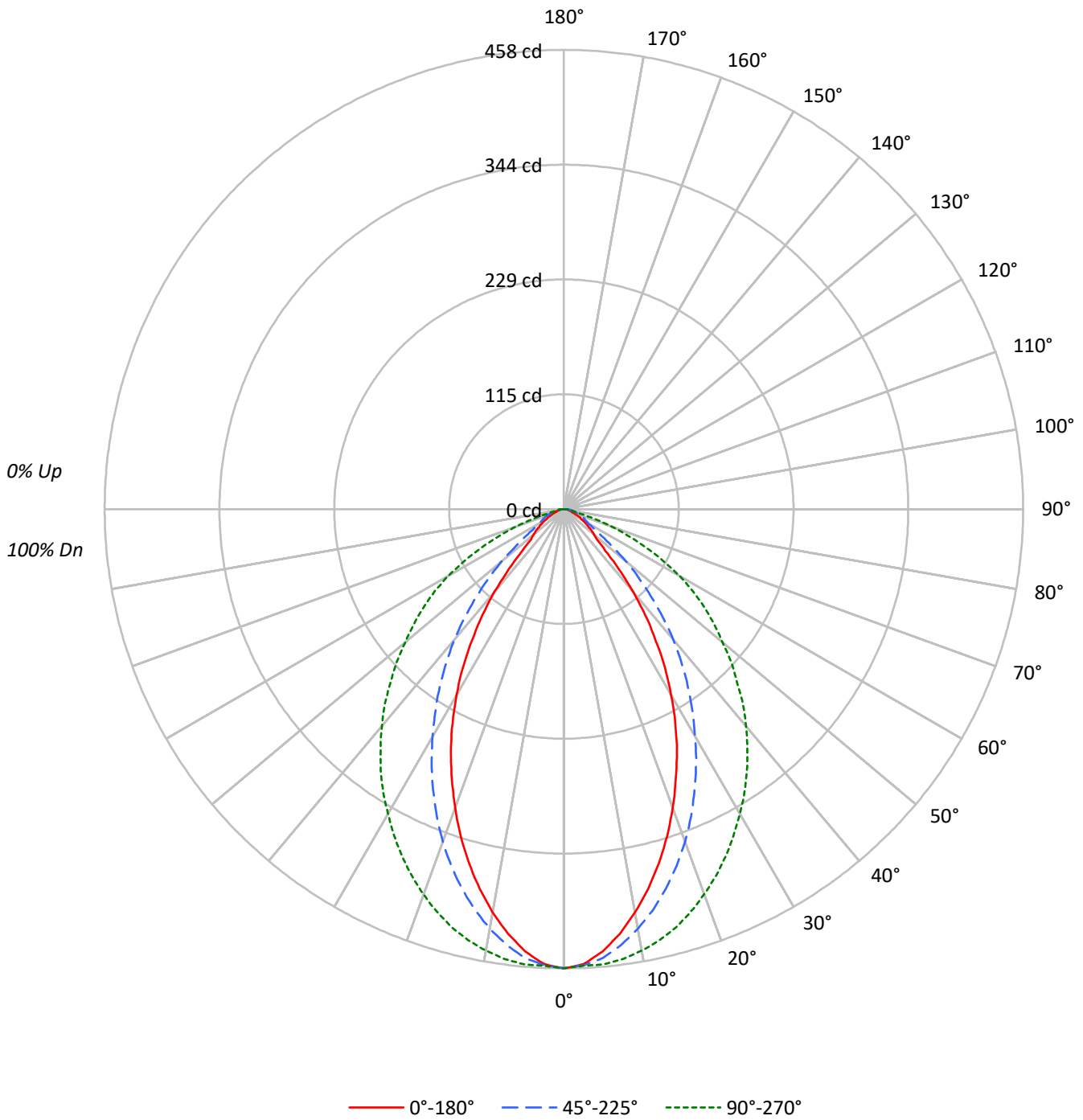
Lumens per Lamp: N/A
Luminaire Lumens: 661.2 lumens
Efficiency: N/A
Efficacy: 38.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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

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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79				79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56				56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3153	3153	3153
5°	3060	3105	3150
10°	2856	2970	3126
15°	2606	2796	3078
20°	2324	2587	2997
25°	2026	2344	2901
30°	1701	2081	2790
35°	1342	1812	2675
40°	962	1523	2539
45°	566	1196	2380
50°	419	861	2211
55°	352	522	2054
60°	284	381	1833
65°	222	363	1470
70°	185	338	994
75°	173	303	434
80°	170	301	282
85°	213	387	300

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2380 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	6.4
10°-20°	110.8	16.8
20°-30°	144.9	21.9
30°-40°	141.0	21.3
40°-50°	105.4	15.9
50°-60°	65.4	9.9
60°-70°	34.3	5.2
70°-80°	12.5	1.9
80°-90°	4.7	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°	297.9	45.1
0°-40°	438.9	66.4
0°-60°	609.6	92.2
0°-90°	661.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	661.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	458	458	458	458	458	
5°	443	449	449	452	456	41
15°	366	376	392	416	432	102
25°	267	280	308	350	382	122
35°	160	177	216	273	318	99
45°	58	76	123	192	244	49
55°	29	31	44	113	171	26
65°	14	15	22	48	90	14
75°	6	8	11	12	16	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°	457.9	457.9	457.9	457.9	457.9
2.5°	454.1	457.9	455.2	455.2	455.7
5°	442.7	448.7	449.2	451.9	455.7
7.5°	427.0	434.0	438.4	446.5	452.5
10°	408.5	416.6	424.8	438.4	447.1
12.5°	387.8	397.6	409.6	428.0	440.5
15°	365.6	376.4	392.2	416.1	431.8
17.5°	342.2	353.6	373.2	402.0	421.0
20°	317.2	329.7	353.1	385.7	409.0
22.5°	291.7	305.8	331.4	368.3	396.0
25°	266.7	280.3	308.5	350.4	381.9
27.5°	240.6	254.8	285.7	331.9	366.7
30°	214.0	229.2	261.8	312.9	350.9
32.5°	187.4	203.2	238.5	293.3	335.2
35°	159.7	177.1	215.6	273.2	318.3
37.5°	133.6	152.1	192.3	252.6	300.4
40°	107.0	126.0	169.5	232.5	282.5
42.5°	80.9	100.5	146.1	211.8	264.5
45°	58.1	76.0	122.8	191.7	244.4
47.5°	44.5	54.9	101.0	171.1	226.5
50°	39.1	42.4	80.4	151.0	206.4
52.5°	34.2	36.4	59.8	131.5	189.0
55°	29.3	31.0	43.5	113.0	171.1
57.5°	25.0	26.6	33.1	96.1	152.6
60°	20.6	22.3	27.7	79.3	133.1
62.5°	17.4	17.9	25.0	63.6	111.4
65°	13.6	14.7	22.3	47.8	90.2
67.5°	11.4	12.0	19.6	34.2	69.5
70°	9.2	9.8	16.8	23.9	49.4
72.5°	8.1	8.1	14.1	17.4	31.5
75°	6.5	7.6	11.4	12.5	16.3
77.5°	5.4	7.6	9.8	9.2	8.7
80°	4.3	7.1	7.6	7.6	7.1
82.5°	3.8	6.0	6.5	6.0	5.4
85°	2.7	4.9	4.9	4.9	3.8
87.5°	2.2	4.3	3.8	3.8	2.7
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	3.77	5.12	4.14	5.44	5.75	13.48	14.83	13.84	15.14	15.46
	3H	4.62	5.81	4.99	6.14	6.51	14.39	15.59	14.77	15.92	16.28
	4H	4.97	6.09	5.37	6.44	6.82	14.49	15.61	14.89	15.96	16.34
	6H	5.34	6.37	5.76	6.74	7.13	14.47	15.50	14.89	15.87	16.26
	8H	5.52	6.49	5.95	6.89	7.29	14.46	15.43	14.89	15.83	16.23
	12H	5.68	6.61	6.12	7.00	7.43	14.45	15.38	14.88	15.76	16.19
4H	2H	4.61	5.72	5.01	6.07	6.46	13.33	14.45	13.73	14.80	15.18
	3H	5.66	6.58	6.08	6.98	7.38	14.32	15.23	14.73	15.64	16.04
	4H	6.12	6.93	6.55	7.35	7.80	14.45	15.26	14.88	15.68	16.13
	6H	6.67	7.38	7.13	7.82	8.29	14.48	15.19	14.94	15.63	16.10
	8H	6.93	7.59	7.40	8.04	8.51	14.48	15.14	14.95	15.59	16.06
	12H	7.17	7.76	7.66	8.24	8.71	14.49	15.07	14.97	15.55	16.03
8H	4H	6.67	7.33	7.14	7.78	8.25	14.37	15.03	14.84	15.48	15.95
	6H	7.45	7.99	7.95	8.49	8.97	14.43	14.97	14.93	15.47	15.95
	8H	7.87	8.35	8.39	8.87	9.36	14.46	14.95	14.98	15.46	15.95
	12H	8.29	8.71	8.80	9.21	9.78	14.51	14.94	15.03	15.44	16.01
12H	4H	6.73	7.32	7.22	7.80	8.27	14.34	14.92	14.82	15.40	15.88
	6H	7.59	8.08	8.11	8.59	9.08	14.40	14.88	14.92	15.40	15.89
	8H	8.12	8.55	8.64	9.05	9.62	14.46	14.89	14.98	15.39	15.96