

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: P1062132

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1062132
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: S125RDR-H610D930-X4F0-XX-UDD-SVL-W
Description: DEFINE 5 WHITE 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

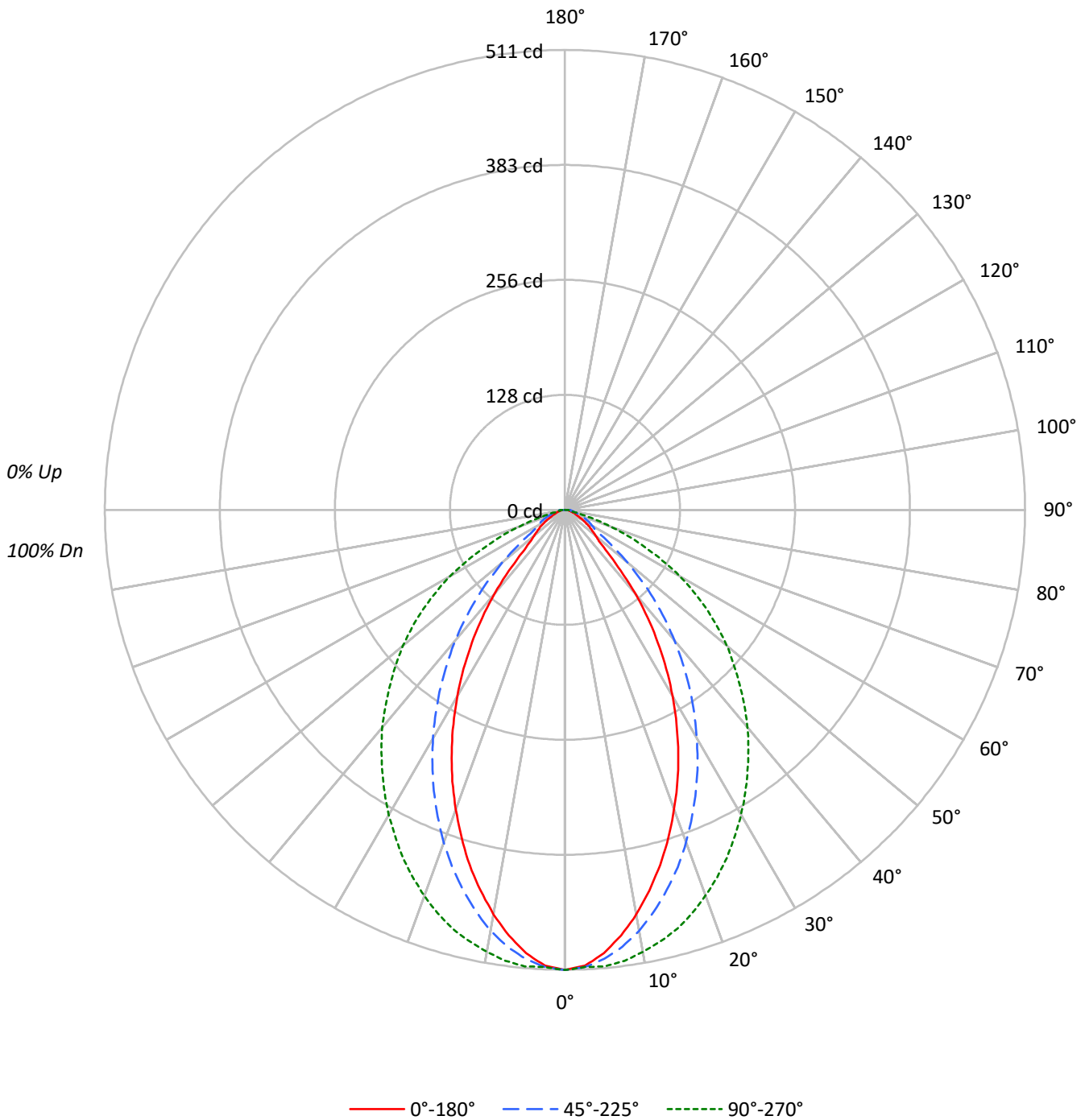
Lumens per Lamp: N/A
Luminaire Lumens: 740.5 lumens
Efficiency: N/A
Efficacy: 42.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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°	3520	3520	3520
5°	3417	3462	3519
10°	3191	3320	3487
15°	2913	3117	3435
20°	2595	2882	3344
25°	2262	2616	3236
30°	1900	2328	3110
35°	1511	2023	2973
40°	1089	1700	2837
45°	646	1349	2672
50°	477	960	2514
55°	405	593	2302
60°	329	479	2027
65°	257	443	1601
70°	219	382	1071
75°	202	333	434
80°	214	345	301
85°	261	513	340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2672 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	6.4
10°-20°	123.8	16.7
20°-30°	161.7	21.8
30°-40°	157.6	21.3
40°-50°	118.2	16.0
50°-60°	74.1	10.0
60°-70°	38.6	5.2
70°-80°	13.9	1.9
80°-90°	5.5	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°	332.6	44.9
0°-40°	490.2	66.2
0°-60°	682.4	92.2
0°-90°	740.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	740.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	511	511	511	511	511	
5°	494	501	501	505	509	46
15°	409	420	437	464	482	114
25°	298	314	344	391	426	136
35°	180	199	241	305	354	112
45°	66	86	138	214	274	56
55°	34	35	49	129	192	30
65°	16	17	27	52	98	16
75°	8	10	12	13	16	8
85°	3	5	6	6	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	511.2	511.2	511.2	511.2	511.2
2.5°	506.9	511.8	508.5	508.5	508.5
5°	494.4	500.9	500.9	504.7	509.1
7.5°	477.0	484.6	489.5	498.7	505.3
10°	456.4	465.6	474.8	490.0	498.7
12.5°	433.0	443.9	456.9	478.1	491.1
15°	408.6	420.5	437.3	464.5	481.9
17.5°	381.9	396.1	416.2	448.8	469.9
20°	354.2	368.3	393.3	430.3	456.4
22.5°	326.5	341.7	368.9	410.7	441.7
25°	297.7	314.0	344.4	391.2	425.9
27.5°	268.4	285.2	318.9	371.1	408.6
30°	239.0	256.4	292.8	349.3	391.2
32.5°	209.7	228.2	266.8	327.1	372.7
35°	179.8	198.8	240.7	304.8	353.7
37.5°	151.0	170.0	214.6	282.0	334.7
40°	121.2	141.8	189.1	259.1	315.6
42.5°	91.8	113.0	163.5	236.3	295.0
45°	66.3	85.8	138.5	214.1	274.4
47.5°	51.1	61.9	113.0	191.2	254.3
50°	44.5	47.8	89.6	170.0	234.7
52.5°	38.6	40.7	67.4	150.5	213.5
55°	33.7	35.3	49.4	129.3	191.8
57.5°	28.3	30.4	39.1	108.7	169.5
60°	23.9	25.0	34.8	89.6	147.2
62.5°	19.6	20.6	31.0	70.6	122.2
65°	15.8	16.8	27.2	52.2	98.3
67.5°	13.0	13.6	22.8	36.9	75.5
70°	10.9	11.4	19.0	25.5	53.2
72.5°	9.2	10.9	15.2	18.5	33.7
75°	7.6	10.3	12.5	13.0	16.3
77.5°	6.5	9.8	10.3	10.3	9.2
80°	5.4	8.1	8.7	8.1	7.6
82.5°	4.3	6.5	7.1	7.1	6.0
85°	3.3	5.4	6.5	6.0	4.3
87.5°	2.2	4.9	5.4	4.9	3.3
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	4.29	5.64	4.65	5.95	6.27	13.90	15.26	14.27	15.57	15.88
	3H	5.15	6.35	5.53	6.68	7.04	14.74	15.94	15.12	16.27	16.64
	4H	5.57	6.69	5.97	7.04	7.42	14.82	15.94	15.22	16.29	16.67
	6H	5.99	7.02	6.41	7.39	7.79	14.80	15.83	15.22	16.20	16.59
	8H	6.17	7.15	6.60	7.54	7.94	14.79	15.76	15.22	16.15	16.56
	12H	6.33	7.27	6.77	7.65	8.08	14.78	15.71	15.21	16.09	16.52
4H	2H	5.25	6.37	5.66	6.72	7.11	13.77	14.89	14.17	15.24	15.62
	3H	6.31	7.22	6.72	7.63	8.03	14.68	15.59	15.09	16.00	16.40
	4H	6.87	7.69	7.30	8.11	8.55	14.78	15.60	15.21	16.02	16.46
	6H	7.46	8.17	7.93	8.62	9.08	14.81	15.51	15.27	15.96	16.42
	8H	7.70	8.36	8.17	8.81	9.28	14.81	15.47	15.27	15.91	16.38
	12H	7.93	8.51	8.41	8.99	9.47	14.82	15.40	15.30	15.89	16.36
8H	4H	7.34	8.00	7.81	8.45	8.92	14.70	15.36	15.17	15.81	16.28
	6H	8.15	8.69	8.65	9.18	9.66	14.76	15.30	15.26	15.79	16.27
	8H	8.52	9.01	9.04	9.52	10.02	14.79	15.28	15.31	15.79	16.28
	12H	8.92	9.34	9.43	9.84	10.41	14.85	15.28	15.37	15.78	16.35
12H	4H	7.39	7.97	7.87	8.46	8.93	14.67	15.25	15.16	15.74	16.21
	6H	8.27	8.76	8.79	9.27	9.76	14.72	15.21	15.24	15.72	16.22
	8H	8.76	9.19	9.27	9.68	10.25	14.80	15.22	15.31	15.72	16.29