

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: P1061889

Luminaire Tested: S125RDR-H1090D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061889
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-H1090D930-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

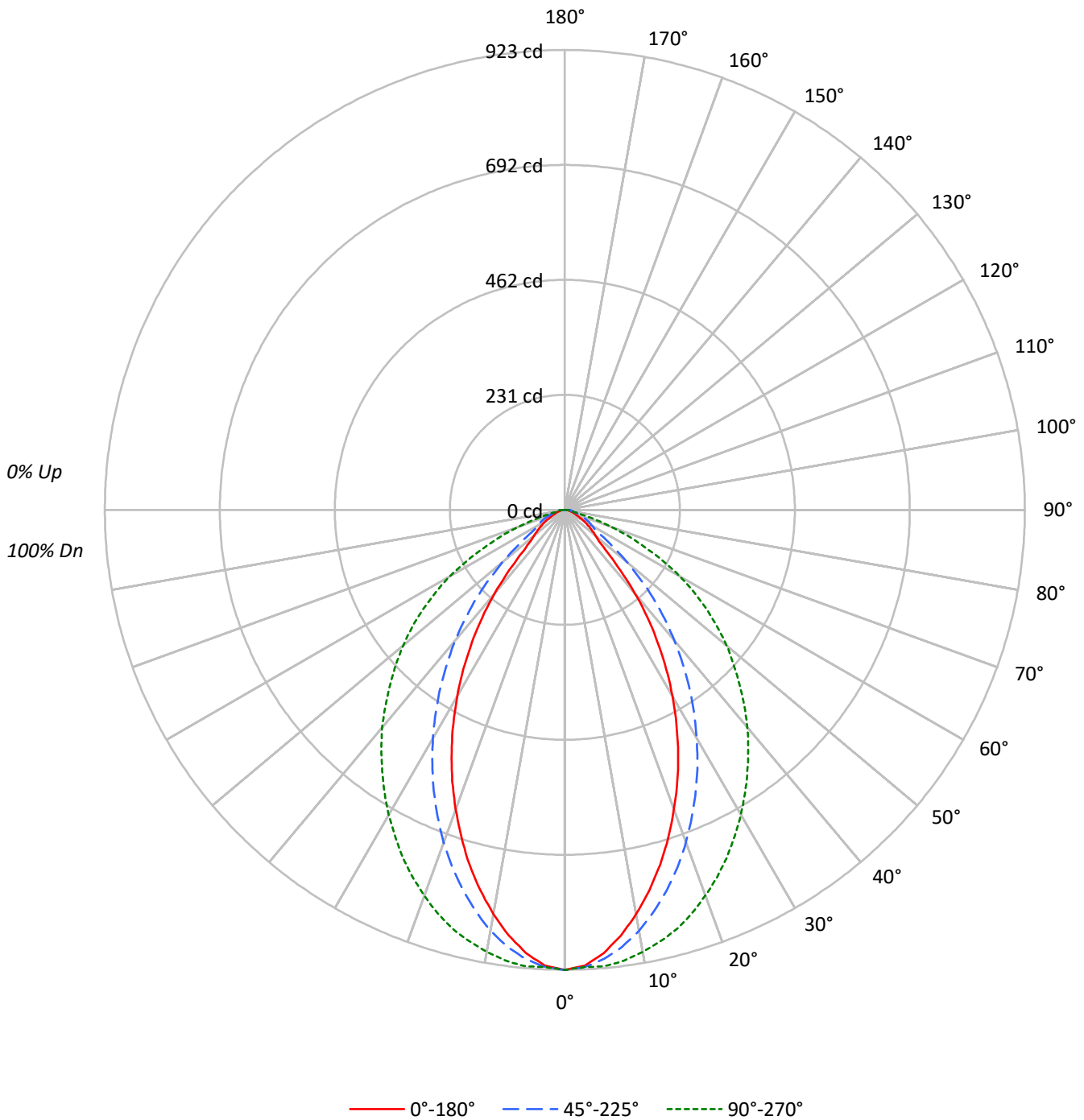
Lumens per Lamp: N/A
Luminaire Lumens: 1337.4 lumens
Efficiency: N/A
Efficacy: 42.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	96	88	81	76	94	86	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	62				62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6357	6357	6357
5°	6171	6253	6354
10°	5762	5996	6298
15°	5260	5631	6204
20°	4688	5205	6039
25°	4085	4726	5844
30°	3432	4205	5617
35°	2730	3654	5369
40°	1967	3069	5124
45°	1166	2436	4825
50°	862	1734	4541
55°	730	1072	4158
60°	595	865	3662
65°	464	800	2893
70°	395	690	1937
75°	364	601	782
80°	389	623	543
85°	466	932	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4825 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	6.4
10°-20°	223.5	16.7
20°-30°	292.1	21.8
30°-40°	284.6	21.3
40°-50°	213.4	16.0
50°-60°	133.8	10.0
60°-70°	69.7	5.2
70°-80°	25.2	1.9
80°-90°	10.0	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°	600.7	44.9
0°-40°	885.3	66.2
0°-60°	1232.6	92.2
0°-90°	1337.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1337.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	893	905	905	912	919	83
15°	738	760	790	839	870	206
25°	538	567	622	706	769	246
35°	325	359	435	550	639	202
45°	120	155	250	387	496	101
55°	61	64	89	234	346	54
65°	28	30	49	94	178	29
75°	14	19	23	24	29	15
85°	6	10	12	11	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.3	923.3	923.3	923.3	923.3
2.5°	915.5	924.3	918.4	918.4	918.4
5°	892.9	904.7	904.7	911.6	919.4
7.5°	861.5	875.3	884.1	900.8	912.6
10°	824.2	840.9	857.6	885.1	900.8
12.5°	782.1	801.7	825.2	863.5	887.0
15°	737.9	759.5	789.9	839.0	870.4
17.5°	689.8	715.3	751.6	810.5	848.8
20°	639.8	665.3	710.4	777.1	824.2
22.5°	589.7	617.2	666.3	741.8	797.8
25°	537.7	567.2	622.1	706.5	769.3
27.5°	484.7	515.2	576.0	670.2	737.9
30°	431.7	463.1	528.9	630.9	706.5
32.5°	378.8	412.1	481.8	590.7	673.1
35°	324.8	359.1	434.7	550.5	638.8
37.5°	272.8	307.1	387.6	509.3	604.4
40°	218.8	256.1	341.5	468.1	570.1
42.5°	165.8	204.1	295.4	426.8	532.8
45°	119.7	155.0	250.2	386.6	495.5
47.5°	92.2	111.9	204.1	345.4	459.2
50°	80.5	86.3	161.9	307.1	423.9
52.5°	69.7	73.6	121.7	271.8	385.6
55°	60.8	63.8	89.3	233.5	346.4
57.5°	51.0	54.9	70.6	196.2	306.1
60°	43.2	45.1	62.8	161.9	265.9
62.5°	35.3	37.3	55.9	127.6	220.8
65°	28.5	30.4	49.1	94.2	177.6
67.5°	23.5	24.5	41.2	66.7	136.4
70°	19.6	20.6	34.3	46.1	96.2
72.5°	16.7	19.6	27.5	33.4	60.8
75°	13.7	18.6	22.6	23.5	29.4
77.5°	11.8	17.7	18.6	18.6	16.7
80°	9.8	14.7	15.7	14.7	13.7
82.5°	7.8	11.8	12.8	12.8	10.8
85°	5.9	9.8	11.8	10.8	7.8
87.5°	3.9	8.8	9.8	8.8	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	6.34	7.69	6.70	8.00	8.32	15.95	17.31	16.32	17.62	17.93
	3H	7.20	8.40	7.57	8.73	9.09	16.80	18.00	17.18	18.33	18.69
	4H	7.62	8.74	8.02	9.09	9.47	16.87	17.99	17.27	18.34	18.72
	6H	8.05	9.08	8.46	9.45	9.84	16.85	17.88	17.27	18.25	18.65
	8H	8.23	9.20	8.66	9.59	10.00	16.84	17.82	17.27	18.21	18.61
	12H	8.39	9.32	8.82	9.70	10.13	16.83	17.76	17.26	18.14	18.57
4H	2H	7.30	8.42	7.71	8.77	9.16	15.82	16.94	16.22	17.29	17.67
	3H	8.36	9.27	8.77	9.68	10.08	16.73	17.65	17.14	18.05	18.45
	4H	8.92	9.74	9.35	10.15	10.60	16.83	17.65	17.27	18.07	18.51
	6H	9.52	10.23	9.98	10.67	11.14	16.86	17.57	17.32	18.01	18.48
	8H	9.76	10.42	10.22	10.86	11.33	16.86	17.52	17.33	17.97	18.44
	12H	9.98	10.57	10.47	11.05	11.52	16.87	17.46	17.36	17.94	18.41
8H	4H	9.39	10.05	9.86	10.50	10.97	16.76	17.42	17.22	17.86	18.33
	6H	10.20	10.74	10.70	11.24	11.72	16.81	17.35	17.31	17.85	18.33
	8H	10.58	11.07	11.10	11.58	12.08	16.84	17.33	17.36	17.84	18.34
	12H	10.98	11.40	11.49	11.90	12.47	16.91	17.34	17.42	17.83	18.40
12H	4H	9.44	10.02	9.93	10.51	10.98	16.72	17.31	17.21	17.79	18.26
	6H	10.33	10.81	10.85	11.33	11.82	16.78	17.26	17.30	17.78	18.27
	8H	10.82	11.25	11.33	11.74	12.31	16.85	17.28	17.36	17.77	18.34