

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: P1061475

Luminaire Tested: S125RDRP-S1090D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061475
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-S1090D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

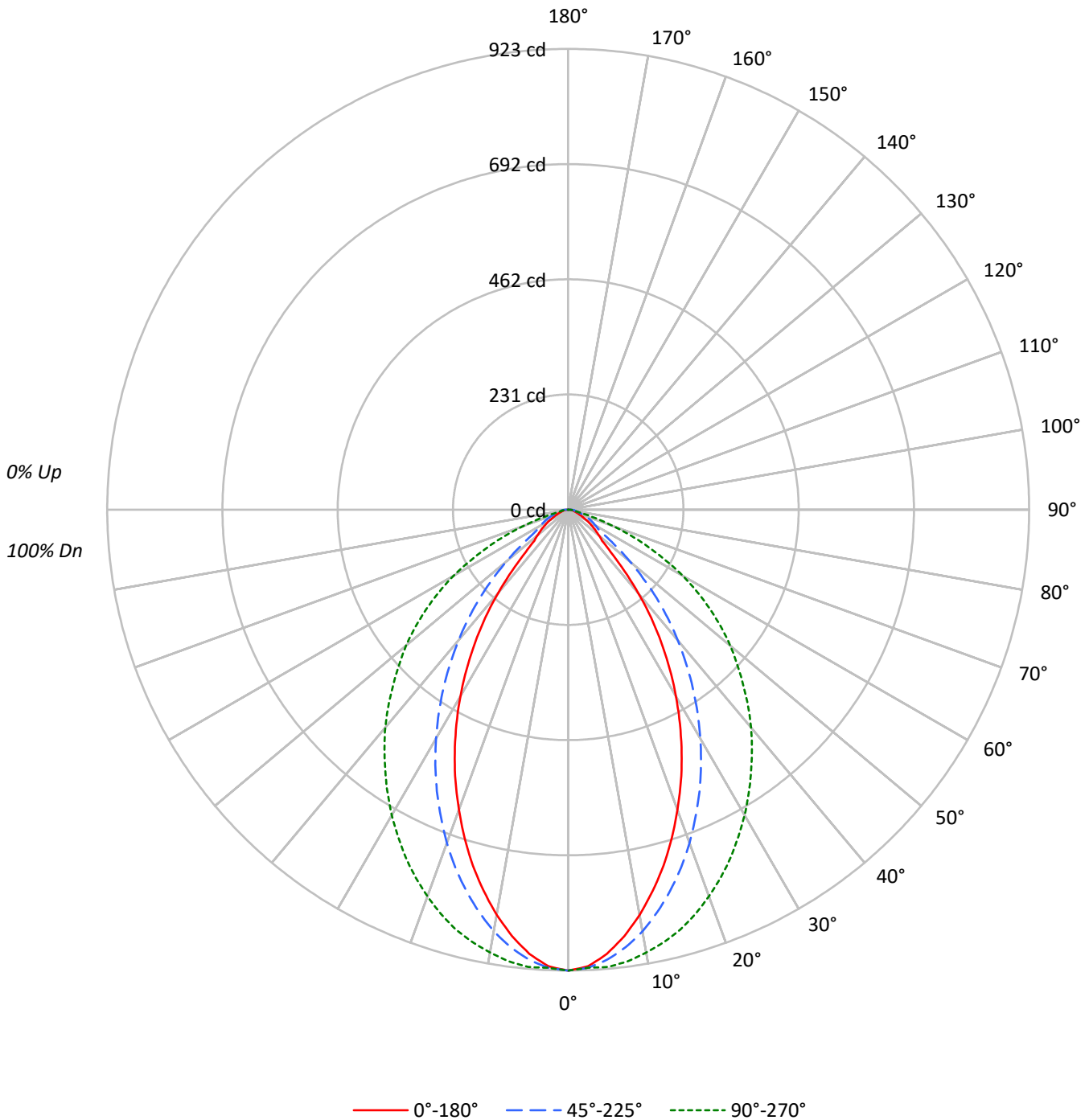
Lumens per Lamp: N/A
Luminaire Lumens: 1337.2 lumens
Efficiency: N/A
Efficacy: 38.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35
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°	6356	6356	6356
5°	6171	6251	6354
10°	5762	5995	6297
15°	5259	5630	6203
20°	4687	5204	6038
25°	4084	4725	5844
30°	3432	4204	5616
35°	2729	3653	5368
40°	1967	3069	5123
45°	1166	2436	4824
50°	861	1734	4540
55°	730	1072	4157
60°	595	865	3662
65°	464	800	2893
70°	395	690	1935
75°	364	601	782
80°	389	623	543
85°	466	932	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4824 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°	284.5	21.3
40°-50°	213.4	16.0
50°-60°	133.8	10.0
60°-70°	69.6	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°	600.6	44.9
0°-40°	885.2	66.2
0°-60°	1232.4	92.2
0°-90°	1337.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1337.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	893	904	904	911	919	83
15°	738	759	790	839	870	206
25°	538	567	622	706	769	246
35°	325	359	435	550	639	202
45°	120	155	250	386	495	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°	923.2	923.2	923.2	923.2	923.2
2.5°	915.3	924.2	918.3	918.3	918.3
5°	892.8	904.5	904.5	911.4	919.3
7.5°	861.4	875.1	883.9	900.6	912.4
10°	824.1	840.8	857.5	884.9	900.6
12.5°	781.9	801.5	825.1	863.3	886.9
15°	737.8	759.3	789.8	838.8	870.2
17.5°	689.7	715.2	751.5	810.4	848.6
20°	639.7	665.2	710.3	777.0	824.1
22.5°	589.6	617.1	666.1	741.7	797.6
25°	537.6	567.1	622.0	706.4	769.2
27.5°	484.6	515.1	575.9	670.1	737.8
30°	431.7	463.1	528.8	630.8	706.4
32.5°	378.7	412.1	481.7	590.6	673.0
35°	324.7	359.1	434.6	550.4	638.7
37.5°	272.7	307.1	387.5	509.2	604.3
40°	218.8	256.1	341.4	468.0	570.0
42.5°	165.8	204.1	295.3	426.8	532.7
45°	119.7	155.0	250.2	386.5	495.4
47.5°	92.2	111.8	204.1	345.3	459.1
50°	80.4	86.3	161.9	307.1	423.8
52.5°	69.7	73.6	121.7	271.8	385.6
55°	60.8	63.8	89.3	233.5	346.3
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	127.5	220.7
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	96.1
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	15.96	17.31	16.32	17.62	17.94
	3H	7.20	8.40	7.58	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	10.16	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	10.71	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	11.41	11.49	11.90	12.47	16.91	17.34	17.42	17.83	18.40
12H	4H	9.44	10.03	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