

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: P1061808

Luminaire Tested: S125RDRP-S850D930-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061808
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-S850D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

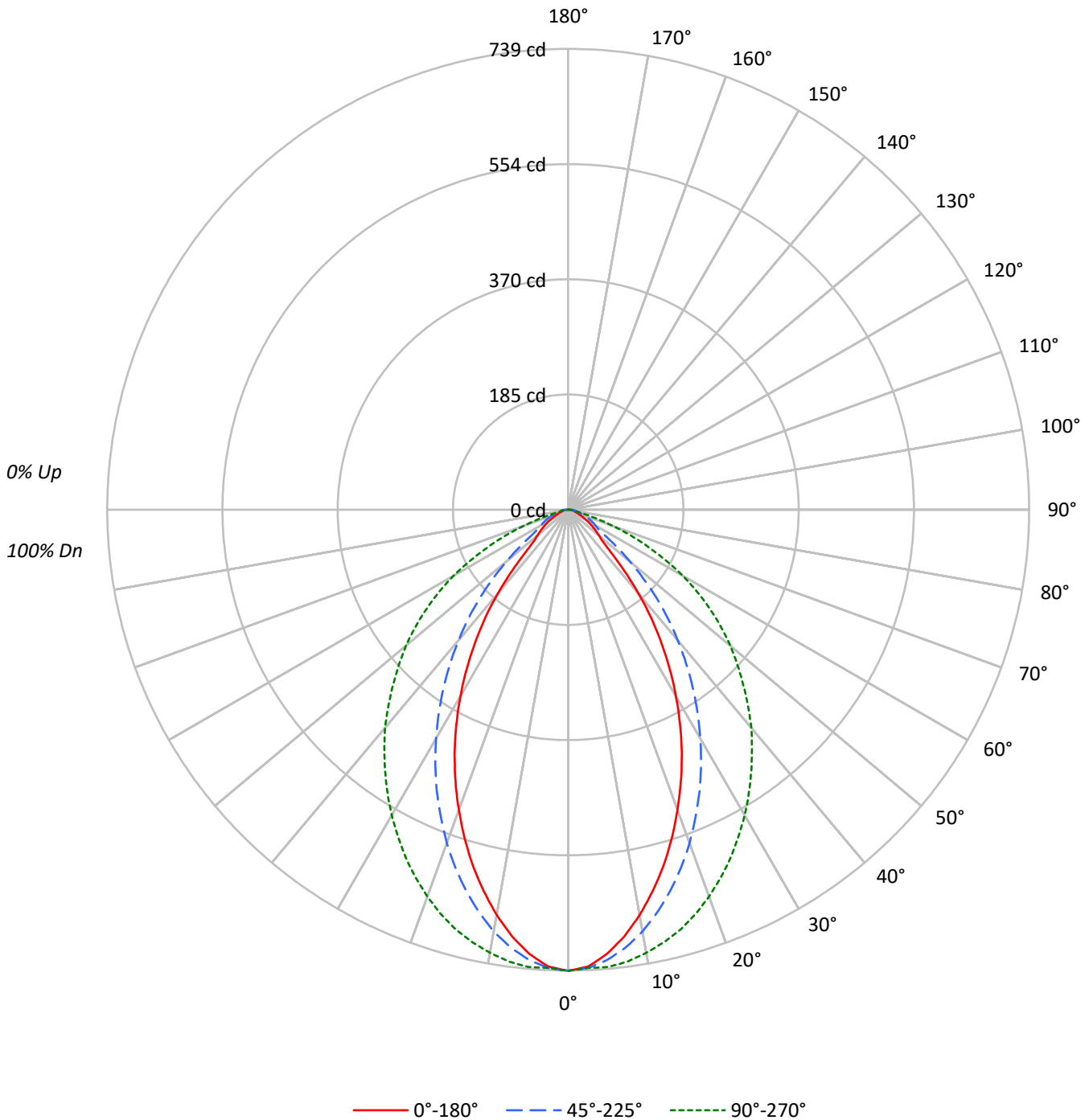
Lumens per Lamp: N/A
Luminaire Lumens: 1070.9 lumens
Efficiency: N/A
Efficacy: 41.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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°	5091	5091	5091
5°	4942	5007	5088
10°	4614	4801	5043
15°	4212	4509	4968
20°	3754	4168	4836
25°	3271	3784	4680
30°	2748	3367	4498
35°	2186	2926	4299
40°	1575	2457	4103
45°	934	1951	3864
50°	690	1388	3635
55°	585	858	3330
60°	476	693	2932
65°	371	640	2317
70°	316	554	1550
75°	293	482	628
80°	313	500	436
85°	371	743	498

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3864 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	6.4
10°-20°	179.0	16.7
20°-30°	233.9	21.8
30°-40°	227.9	21.3
40°-50°	170.9	16.0
50°-60°	107.1	10.0
60°-70°	55.8	5.2
70°-80°	20.2	1.9
80°-90°	8.0	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°	481.0	44.9
0°-40°	708.9	66.2
0°-60°	987.0	92.2
0°-90°	1070.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1070.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	715	724	724	730	736	66
15°	591	608	632	672	697	165
25°	431	454	498	566	616	197
35°	260	288	348	441	512	162
45°	96	124	200	310	397	81
55°	49	51	72	187	277	43
65°	23	24	39	75	142	23
75°	11	15	18	19	24	12
85°	5	8	9	9	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.4	739.4	739.4	739.4	739.4
2.5°	733.1	740.1	735.4	735.4	735.4
5°	715.0	724.4	724.4	729.9	736.2
7.5°	689.9	700.9	707.9	721.3	730.7
10°	660.0	673.4	686.7	708.7	721.3
12.5°	626.2	641.9	660.8	691.4	710.3
15°	590.9	608.1	632.5	671.8	696.9
17.5°	552.4	572.8	601.9	649.0	679.6
20°	512.3	532.7	568.9	622.3	660.0
22.5°	472.2	494.2	533.5	594.0	638.8
25°	430.6	454.1	498.1	565.7	616.0
27.5°	388.1	412.5	461.2	536.6	590.9
30°	345.7	370.9	423.5	505.2	565.7
32.5°	303.3	330.0	385.8	473.0	539.0
35°	260.1	287.6	348.1	440.8	511.5
37.5°	218.4	245.9	310.4	407.8	484.0
40°	175.2	205.1	273.4	374.8	456.5
42.5°	132.8	163.4	236.5	341.8	426.6
45°	95.9	124.1	200.4	309.6	396.8
47.5°	73.9	89.6	163.4	276.6	367.7
50°	64.4	69.1	129.6	245.9	339.4
52.5°	55.8	58.9	97.4	217.6	308.8
55°	48.7	51.1	71.5	187.0	277.4
57.5°	40.9	44.0	56.6	157.1	245.1
60°	34.6	36.1	50.3	129.6	212.9
62.5°	28.3	29.9	44.8	102.1	176.8
65°	22.8	24.4	39.3	75.4	142.2
67.5°	18.9	19.6	33.0	53.4	109.2
70°	15.7	16.5	27.5	36.9	77.0
72.5°	13.4	15.7	22.0	26.7	48.7
75°	11.0	14.9	18.1	18.9	23.6
77.5°	9.4	14.1	14.9	14.9	13.4
80°	7.9	11.8	12.6	11.8	11.0
82.5°	6.3	9.4	10.2	10.2	8.6
85°	4.7	7.9	9.4	8.6	6.3
87.5°	3.1	7.1	7.9	7.1	4.7
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	5.57	6.93	5.94	7.24	7.55	15.18	16.53	15.55	16.85	17.16
	3H	6.43	7.63	6.81	7.96	8.32	16.02	17.22	16.40	17.55	17.92
	4H	6.85	7.97	7.26	8.32	8.71	16.10	17.22	16.50	17.57	17.95
	6H	7.28	8.31	7.70	8.68	9.07	16.08	17.11	16.50	17.48	17.87
	8H	7.46	8.44	7.89	8.83	9.23	16.07	17.04	16.50	17.43	17.84
	12H	7.62	8.56	8.06	8.94	9.37	16.06	16.99	16.49	17.37	17.80
4H	2H	6.54	7.66	6.94	8.01	8.39	15.05	16.17	15.45	16.52	16.90
	3H	7.59	8.50	8.00	8.91	9.31	15.96	16.87	16.37	17.28	17.68
	4H	8.15	8.97	8.58	9.39	9.83	16.06	16.88	16.49	17.30	17.74
	6H	8.75	9.46	9.21	9.90	10.37	16.09	16.79	16.55	17.24	17.71
	8H	8.99	9.65	9.46	10.09	10.57	16.09	16.75	16.56	17.19	17.67
	12H	9.21	9.80	9.70	10.28	10.75	16.10	16.68	16.59	17.17	17.64
8H	4H	8.62	9.28	9.09	9.73	10.20	15.98	16.64	16.45	17.09	17.56
	6H	9.43	9.97	9.93	10.47	10.95	16.04	16.58	16.54	17.08	17.56
	8H	9.81	10.30	10.33	10.81	11.31	16.07	16.56	16.59	17.07	17.56
	12H	10.21	10.64	10.72	11.13	11.70	16.13	16.56	16.65	17.06	17.63
12H	4H	8.67	9.26	9.16	9.74	10.21	15.95	16.54	16.44	17.02	17.49
	6H	9.56	10.04	10.08	10.56	11.05	16.00	16.49	16.53	17.01	17.50
	8H	10.04	10.47	10.56	10.97	11.54	16.08	16.51	16.59	17.00	17.57