

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: P1175424

Luminaire Tested: S125RDRP-H610D930-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-82)
Test Lab: INNOVATION CENTER
Issue Date: 8/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H610D930-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

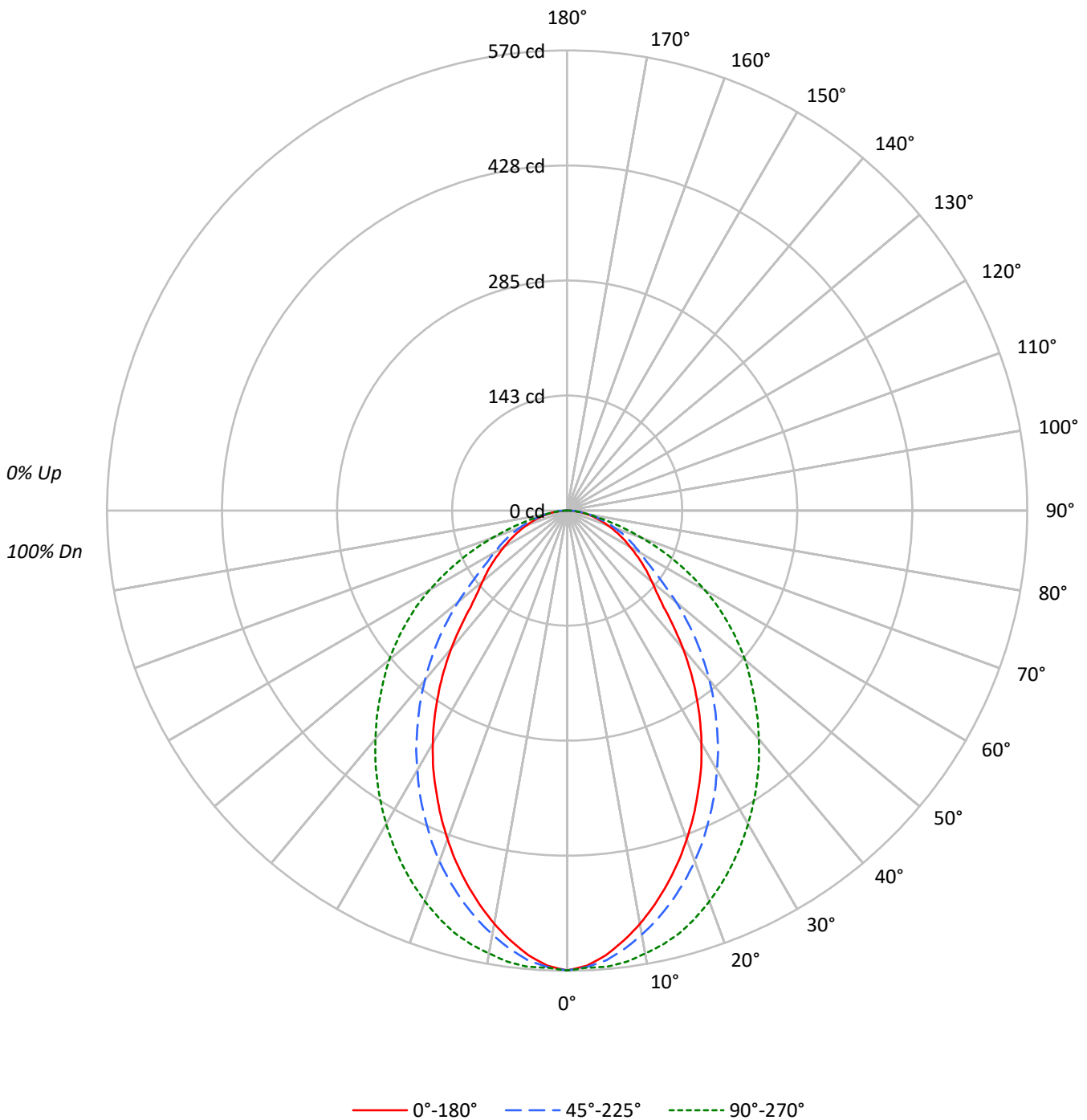
Lumens per Lamp: N/A
Luminaire Lumens: 1073.1 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (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

TEST NUMBER: P1175424

CATALOG NUMBER: S125RDRP-H610D930-X4F0-XX-UDD-WVL-W

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3922	3922	3922
5°	3820	3864	3920
10°	3634	3729	3894
15°	3416	3570	3857
20°	3174	3387	3773
25°	2916	3174	3673
30°	2645	2949	3563
35°	2341	2711	3446
40°	2008	2465	3320
45°	1648	2194	3192
50°	1465	1885	3082
55°	1353	1579	2925
60°	1245	1438	2710
65°	1158	1355	2395
70°	1081	1266	1957
75°	1016	1171	1466
80°	960	1075	1055
85°	877	1066	877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3192 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	4.9
10°-20°	142.1	13.2
20°-30°	195.5	18.2
30°-40°	207.4	19.3
40°-50°	181.5	16.9
50°-60°	139.3	13.0
60°-70°	92.8	8.6
70°-80°	47.6	4.4
80°-90°	14.1	1.3
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°	390.4	36.4
0°-40°	597.8	55.7
0°-60°	918.6	85.6
0°-90°	1073.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1073.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	553	560	559	563	567	52
15°	479	490	501	525	541	134
25°	384	397	418	453	484	176
35°	278	292	322	370	410	174
45°	169	183	225	281	328	134
55°	113	115	132	195	244	101
65°	71	72	83	109	147	71
75°	38	41	44	46	55	41
85°	11	13	14	13	11	13
90°	0	0	0	0	0	

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CATALOG NUMBER: S125RDRP-H610D930-X4F0-XX-UDD-WVL-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	569.6	569.6	569.6	569.6	569.6
2.5°	564.3	570.1	565.7	566.2	566.7
5°	552.7	559.9	559.0	562.8	567.2
7.5°	537.2	544.9	547.4	557.0	563.8
10°	519.8	528.5	533.3	547.8	557.0
12.5°	500.0	510.1	517.9	536.7	550.3
15°	479.2	490.3	500.9	524.6	541.1
17.5°	456.9	468.1	482.1	509.2	529.0
20°	433.2	445.3	462.3	491.3	515.0
22.5°	409.1	421.6	441.0	472.9	500.0
25°	383.9	397.0	417.8	453.1	483.5
27.5°	359.3	371.4	395.5	433.2	466.6
30°	332.7	345.2	370.9	412.5	448.2
32.5°	306.1	318.6	348.1	391.7	429.4
35°	278.5	291.6	322.5	369.9	410.0
37.5°	251.0	264.5	298.8	347.7	390.2
40°	223.4	237.9	274.2	325.4	369.4
42.5°	195.3	210.8	249.0	303.7	349.1
45°	169.2	183.3	225.3	281.4	327.8
47.5°	150.4	158.6	200.2	258.7	307.5
50°	136.8	140.7	176.0	236.9	287.7
52.5°	124.8	127.2	152.3	216.6	265.9
55°	112.7	115.1	131.5	195.3	243.7
57.5°	101.1	102.5	116.0	174.1	221.5
60°	90.4	91.4	104.4	152.8	196.8
62.5°	80.8	81.2	93.3	131.0	172.1
65°	71.1	71.6	83.2	109.3	147.0
67.5°	62.4	62.4	73.5	89.5	122.8
70°	53.7	53.7	62.9	72.5	97.2
72.5°	45.9	46.9	53.2	58.5	75.9
75°	38.2	40.6	44.0	46.4	55.1
77.5°	30.9	33.8	35.3	36.3	36.7
80°	24.2	26.1	27.1	27.6	26.6
82.5°	17.9	19.3	19.8	19.8	18.4
85°	11.1	12.6	13.5	13.1	11.1
87.5°	5.3	7.3	7.7	6.8	5.3
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	11.36	12.86	11.73	13.18	13.49	15.39	16.89	15.75	17.20	17.52
	3H	12.95	14.30	13.33	14.62	14.99	16.78	18.12	17.15	18.45	18.81
	4H	13.59	14.85	13.99	15.20	15.58	17.18	18.44	17.58	18.79	19.17
	6H	14.10	15.27	14.51	15.63	16.03	17.39	18.55	17.80	18.92	19.31
	8H	14.28	15.39	14.71	15.78	16.18	17.45	18.55	17.87	18.94	19.34
	12H	14.41	15.47	14.84	15.85	16.28	17.48	18.54	17.91	18.92	19.35
4H	2H	12.13	13.39	12.53	13.74	14.12	15.52	16.78	15.92	17.13	17.51
	3H	13.92	14.96	14.33	15.36	15.76	17.09	18.14	17.50	18.54	18.94
	4H	14.68	15.63	15.12	16.04	16.48	17.60	18.54	18.03	18.96	19.39
	6H	15.32	16.14	15.78	16.58	17.04	17.92	18.74	18.38	19.19	19.65
	8H	15.55	16.32	16.02	16.76	17.23	18.02	18.79	18.49	19.23	19.70
	12H	15.72	16.41	16.21	16.89	17.36	18.10	18.78	18.58	19.26	19.73
8H	4H	15.07	15.83	15.53	16.28	16.74	17.70	18.46	18.16	18.91	19.38
	6H	15.84	16.48	16.34	16.97	17.45	18.12	18.75	18.61	19.24	19.72
	8H	16.16	16.73	16.67	17.24	17.73	18.28	18.84	18.79	19.35	19.84
	12H	16.42	16.92	16.93	17.41	17.98	18.41	18.92	18.92	19.41	19.97
12H	4H	15.11	15.79	15.59	16.27	16.74	17.70	18.38	18.18	18.86	19.33
	6H	15.92	16.49	16.43	17.00	17.48	18.13	18.70	18.64	19.21	19.70
	8H	16.30	16.80	16.81	17.30	17.86	18.34	18.84	18.85	19.33	19.90