

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: P1175423

Luminaire Tested: S125RDRP-H610D927-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175423
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-H610D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

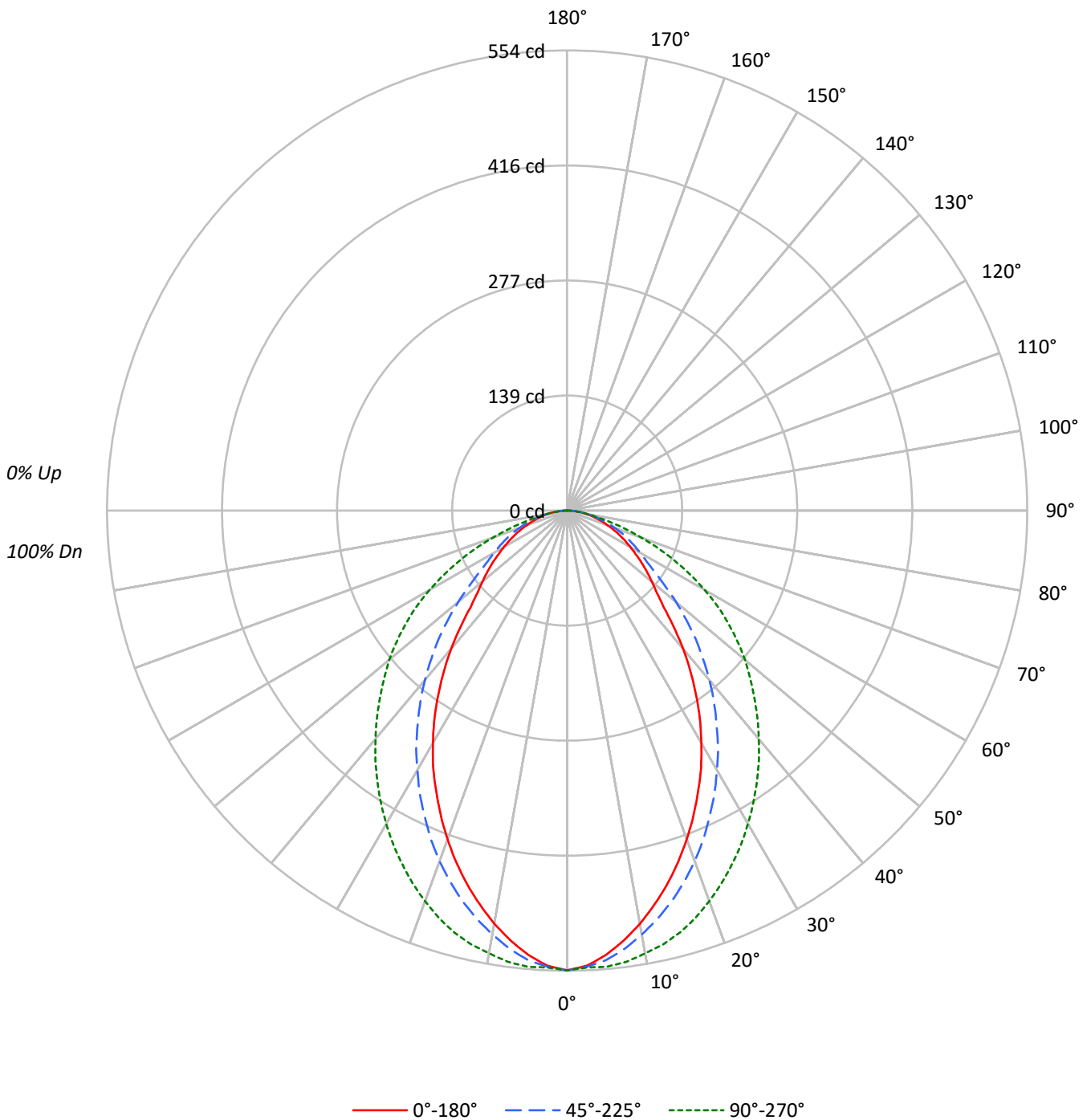
Lumens per Lamp: N/A
Luminaire Lumens: 1042.7 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

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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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3811	3811	3811
5°	3711	3754	3809
10°	3531	3623	3784
15°	3319	3469	3747
20°	3085	3291	3666
25°	2834	3084	3569
30°	2570	2865	3462
35°	2274	2634	3349
40°	1951	2394	3226
45°	1601	2131	3101
50°	1425	1832	2994
55°	1314	1534	2843
60°	1210	1398	2633
65°	1126	1316	2326
70°	1051	1230	1900
75°	987	1139	1426
80°	932	1043	1023
85°	853	1043	853

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3101 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	4.9
10°-20°	138.1	13.2
20°-30°	190.0	18.2
30°-40°	201.5	19.3
40°-50°	176.4	16.9
50°-60°	135.3	13.0
60°-70°	90.2	8.6
70°-80°	46.2	4.4
80°-90°	13.7	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°	379.3	36.4
0°-40°	580.9	55.7
0°-60°	892.6	85.6
0°-90°	1042.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1042.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	554	554	554	554	554	
5°	537	544	543	547	551	50
15°	466	476	487	510	526	130
25°	373	386	406	440	470	171
35°	271	283	313	359	398	169
45°	164	178	219	273	318	130
55°	110	112	128	190	237	98
65°	69	70	81	106	143	69
75°	37	40	43	45	54	39
85°	11	12	13	13	11	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	553.5	553.5	553.5	553.5	553.5
2.5°	548.3	553.9	549.7	550.2	550.6
5°	537.0	544.1	543.1	546.9	551.1
7.5°	522.0	529.5	531.8	541.2	547.8
10°	505.1	513.5	518.2	532.3	541.2
12.5°	485.8	495.7	503.2	521.5	534.7
15°	465.6	476.4	486.7	509.8	525.7
17.5°	444.0	454.8	468.4	494.7	514.0
20°	421.0	432.7	449.2	477.3	500.4
22.5°	397.5	409.7	428.5	459.5	485.8
25°	373.0	385.7	405.9	440.2	469.8
27.5°	349.1	360.8	384.3	421.0	453.4
30°	323.2	335.5	360.4	400.8	435.5
32.5°	297.4	309.6	338.3	380.6	417.2
35°	270.6	283.3	313.4	359.4	398.4
37.5°	243.8	257.0	290.4	337.8	379.1
40°	217.1	231.2	266.4	316.2	358.9
42.5°	189.8	204.8	242.0	295.0	339.2
45°	164.4	178.1	218.9	273.4	318.5
47.5°	146.1	154.1	194.5	251.4	298.8
50°	133.0	136.7	171.0	230.2	279.5
52.5°	121.2	123.6	148.0	210.5	258.4
55°	109.5	111.8	127.8	189.8	236.8
57.5°	98.2	99.6	112.8	169.1	215.2
60°	87.9	88.8	101.5	148.5	191.2
62.5°	78.5	78.9	90.7	127.3	167.3
65°	69.1	69.5	80.8	106.2	142.8
67.5°	60.6	60.6	71.4	86.9	119.3
70°	52.2	52.2	61.1	70.5	94.4
72.5°	44.6	45.6	51.7	56.8	73.8
75°	37.1	39.5	42.8	45.1	53.6
77.5°	30.1	32.9	34.3	35.2	35.7
80°	23.5	25.4	26.3	26.8	25.8
82.5°	17.4	18.8	19.3	19.3	17.9
85°	10.8	12.2	13.2	12.7	10.8
87.5°	5.2	7.0	7.5	6.6	5.2
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	11.26	12.76	11.63	13.08	13.39	15.29	16.79	15.65	17.10	17.41
	3H	12.85	14.20	13.23	14.52	14.89	16.67	18.02	17.05	18.35	18.71
	4H	13.49	14.75	13.89	15.10	15.48	17.08	18.34	17.48	18.69	19.07
	6H	14.00	15.17	14.42	15.54	15.93	17.29	18.45	17.70	18.82	19.21
	8H	14.19	15.29	14.61	15.68	16.08	17.34	18.45	17.77	18.84	19.24
	12H	14.31	15.37	14.74	15.75	16.18	17.38	18.44	17.81	18.82	19.25
4H	2H	12.03	13.29	12.43	13.64	14.02	15.42	16.68	15.82	17.03	17.41
	3H	13.82	14.86	14.23	15.26	15.66	16.99	18.03	17.40	18.43	18.83
	4H	14.58	15.53	15.02	15.94	16.38	17.50	18.44	17.93	18.85	19.29
	6H	15.22	16.04	15.68	16.49	16.95	17.82	18.64	18.28	19.09	19.55
	8H	15.45	16.22	15.92	16.66	17.13	17.92	18.69	18.39	19.13	19.60
	12H	15.63	16.31	16.11	16.79	17.26	18.00	18.68	18.48	19.16	19.63
8H	4H	14.97	15.73	15.43	16.18	16.65	17.60	18.36	18.06	18.81	19.28
	6H	15.75	16.38	16.24	16.87	17.35	18.02	18.65	18.51	19.14	19.62
	8H	16.06	16.63	16.58	17.14	17.63	18.18	18.74	18.69	19.25	19.74
	12H	16.32	16.83	16.83	17.32	17.88	18.31	18.82	18.82	19.31	19.87
12H	4H	15.01	15.69	15.49	16.17	16.64	17.60	18.28	18.08	18.76	19.23
	6H	15.82	16.39	16.33	16.90	17.39	18.03	18.60	18.54	19.11	19.60
	8H	16.20	16.71	16.71	17.20	17.76	18.24	18.74	18.75	19.23	19.80