

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: P1175380

Luminaire Tested: S125RDRP-S610D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/18/2025

Test Information

Test Method: LM-79-2024
Report Number: P1175380
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-S610D935-X4F0-XX-UDD-WVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

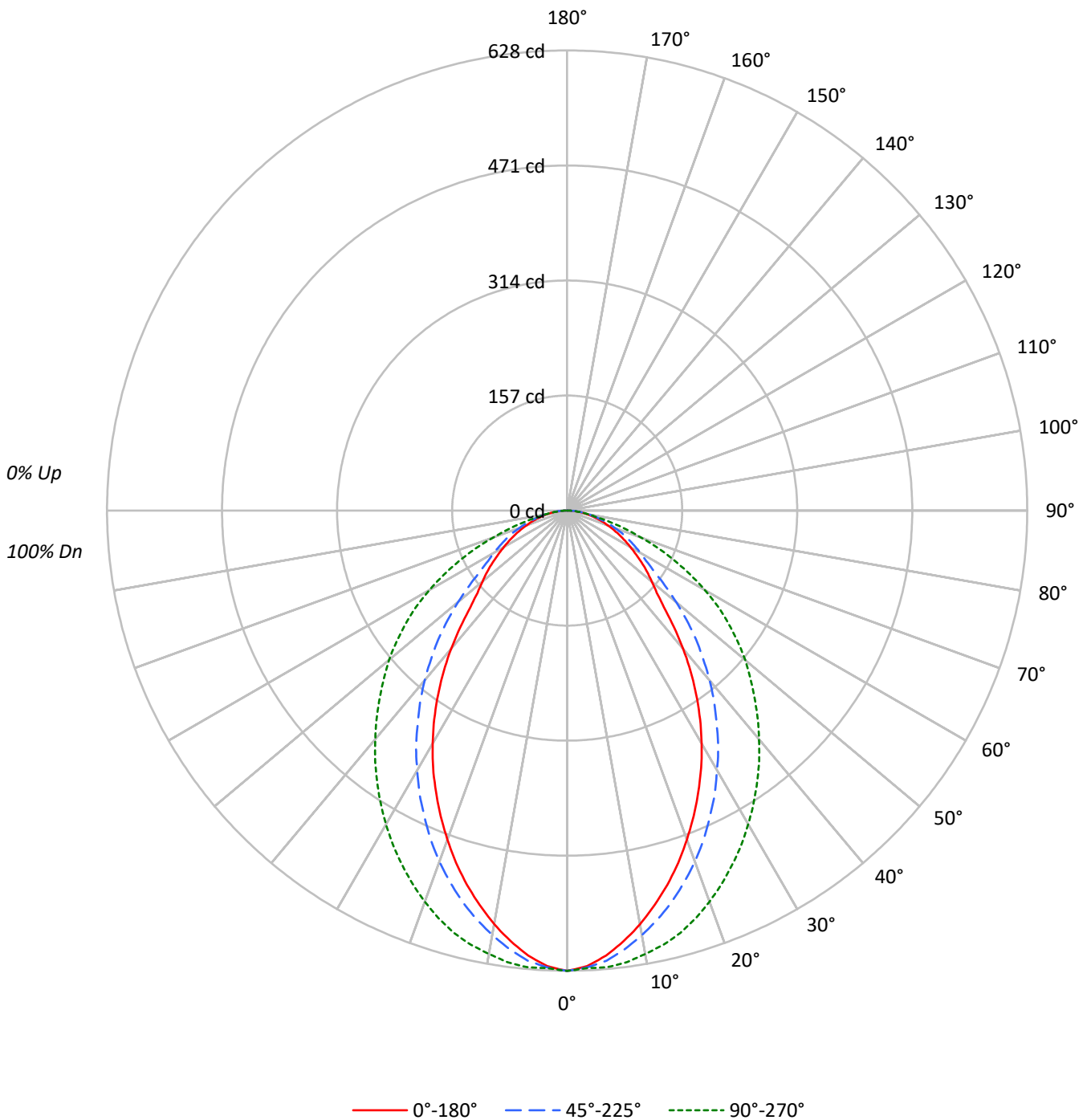
Lumens per Lamp: N/A
Luminaire Lumens: 1183.5 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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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CATALOG NUMBER: S125RDRP-S610D935-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									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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																												
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°	4325	4325	4325
5°	4213	4261	4324
10°	4008	4112	4296
15°	3767	3938	4254
20°	3501	3735	4162
25°	3217	3501	4051
30°	2917	3252	3931
35°	2582	2990	3801
40°	2215	2718	3662
45°	1818	2420	3521
50°	1616	2079	3399
55°	1492	1742	3227
60°	1373	1586	2990
65°	1277	1494	2641
70°	1192	1395	2158
75°	1120	1290	1617
80°	1059	1186	1162
85°	972	1177	972

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3521 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	4.9
10°-20°	156.8	13.2
20°-30°	215.7	18.2
30°-40°	228.7	19.3
40°-50°	200.2	16.9
50°-60°	153.6	13.0
60°-70°	102.3	8.6
70°-80°	52.5	4.4
80°-90°	15.6	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°	430.6	36.4
0°-40°	659.3	55.7
0°-60°	1013.2	85.6
0°-90°	1183.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	610	618	616	621	626	57
15°	528	541	552	579	597	148
25°	423	438	461	500	533	194
35°	307	322	356	408	452	191
45°	187	202	248	310	362	147
55°	124	127	145	216	269	111
65°	78	79	92	120	162	78
75°	42	45	48	51	61	45
85°	12	14	15	14	12	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	628.2	628.2	628.2	628.2	628.2
2.5°	622.4	628.8	624.0	624.5	625.0
5°	609.6	617.6	616.5	620.8	625.6
7.5°	592.5	601.0	603.7	614.4	621.8
10°	573.3	582.9	588.2	604.2	614.4
12.5°	551.4	562.6	571.2	592.0	606.9
15°	528.5	540.8	552.5	578.6	596.8
17.5°	504.0	516.2	531.7	561.6	583.4
20°	477.8	491.2	509.8	541.8	568.0
22.5°	451.2	465.0	486.4	521.6	551.4
25°	423.4	437.8	460.8	499.7	533.3
27.5°	396.2	409.6	436.2	477.8	514.6
30°	366.9	380.8	409.0	454.9	494.4
32.5°	337.6	351.4	384.0	432.0	473.6
35°	307.2	321.6	355.7	408.0	452.2
37.5°	276.8	291.7	329.6	383.4	430.4
40°	246.4	262.4	302.4	358.9	407.4
42.5°	215.5	232.5	274.7	334.9	385.0
45°	186.7	202.1	248.5	310.4	361.6
47.5°	165.9	174.9	220.8	285.3	339.2
50°	150.9	155.2	194.1	261.3	317.3
52.5°	137.6	140.3	168.0	238.9	293.3
55°	124.3	126.9	145.1	215.5	268.8
57.5°	111.5	113.1	128.0	192.0	244.3
60°	99.7	100.8	115.2	168.5	217.1
62.5°	89.1	89.6	102.9	144.5	189.9
65°	78.4	78.9	91.7	120.5	162.1
67.5°	68.8	68.8	81.1	98.7	135.5
70°	59.2	59.2	69.3	80.0	107.2
72.5°	50.7	51.7	58.7	64.5	83.7
75°	42.1	44.8	48.5	51.2	60.8
77.5°	34.1	37.3	38.9	40.0	40.5
80°	26.7	28.8	29.9	30.4	29.3
82.5°	19.7	21.3	21.9	21.9	20.3
85°	12.3	13.9	14.9	14.4	12.3
87.5°	5.9	8.0	8.5	7.5	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	11.71	13.20	12.07	13.52	13.83	15.73	17.23	16.09	17.54	17.86
	3H	13.29	14.64	13.67	14.96	15.33	17.12	18.46	17.50	18.79	19.15
	4H	13.93	15.20	14.33	15.54	15.92	17.52	18.78	17.92	19.13	19.51
	6H	14.44	15.61	14.86	15.97	16.37	17.73	18.89	18.14	19.26	19.65
	8H	14.62	15.73	15.05	16.12	16.52	17.79	18.89	18.21	19.28	19.69
	12H	14.75	15.81	15.18	16.19	16.62	17.82	18.88	18.25	19.26	19.69
4H	2H	12.47	13.73	12.87	14.08	14.46	15.86	17.12	16.26	17.47	17.85
	3H	14.26	15.30	14.67	15.70	16.10	17.43	18.48	17.84	18.88	19.28
	4H	15.02	15.97	15.46	16.38	16.82	17.94	18.88	18.37	19.30	19.73
	6H	15.66	16.48	16.12	16.93	17.39	18.26	19.08	18.72	19.53	19.99
	8H	15.89	16.66	16.36	17.10	17.57	18.36	19.13	18.83	19.57	20.04
	12H	16.06	16.75	16.55	17.23	17.70	18.44	19.12	18.92	19.60	20.07
8H	4H	15.41	16.17	15.87	16.62	17.08	18.04	18.80	18.50	19.25	19.72
	6H	16.18	16.82	16.68	17.31	17.79	18.46	19.09	18.95	19.58	20.06
	8H	16.50	17.07	17.01	17.58	18.07	18.62	19.18	19.13	19.69	20.18
	12H	16.76	17.26	17.27	17.76	18.32	18.76	19.26	19.27	19.75	20.31
12H	4H	15.45	16.13	15.93	16.61	17.08	18.04	18.72	18.52	19.20	19.67
	6H	16.26	16.83	16.77	17.34	17.83	18.47	19.04	18.98	19.55	20.04
	8H	16.64	17.14	17.15	17.64	18.20	18.68	19.18	19.19	19.67	20.24