

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: P1061728

Luminaire Tested: S125RDRP-S610D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D930-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

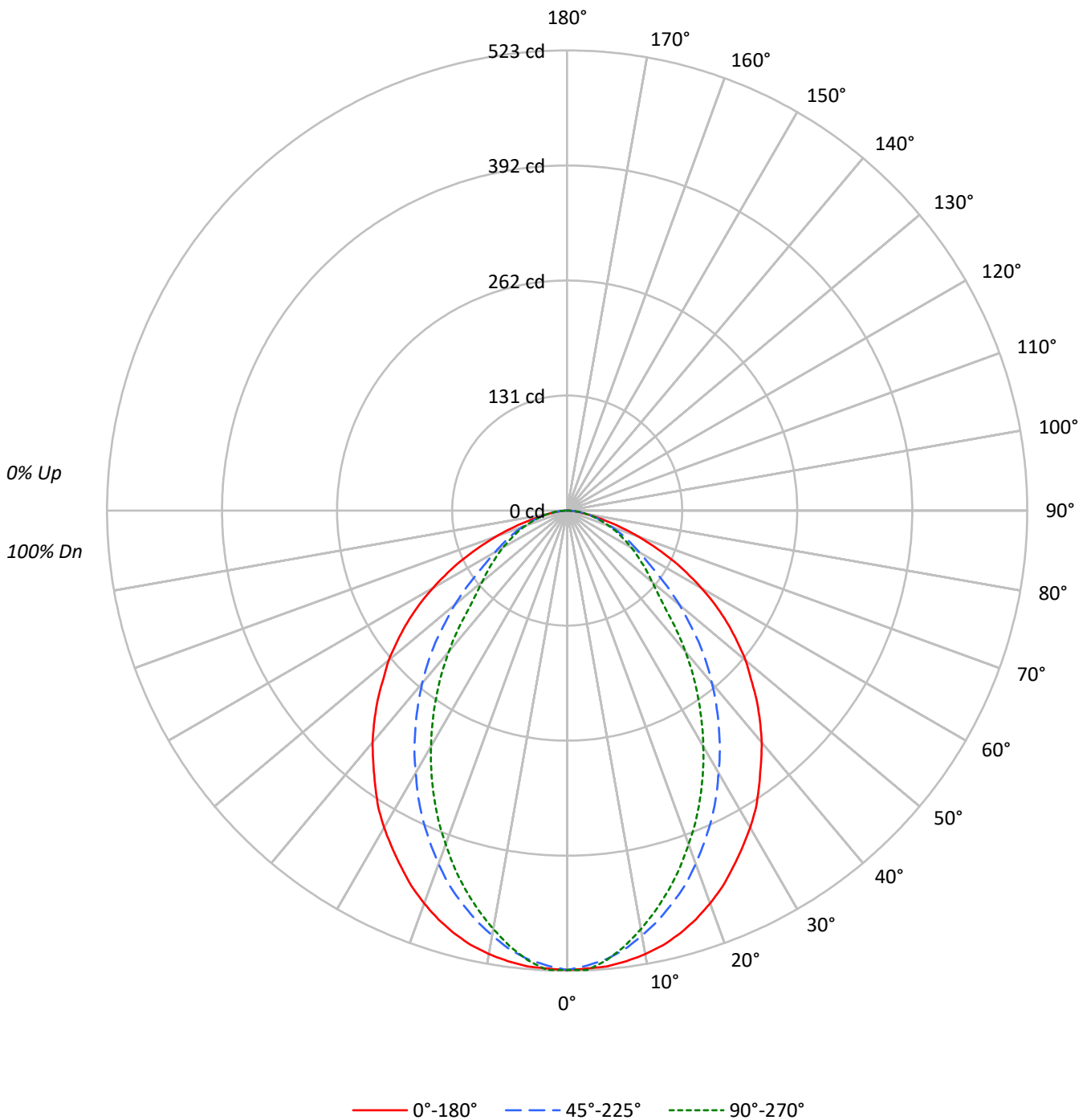
Lumens per Lamp: N/A
Luminaire Lumens: 989.1 lumens
Efficiency: N/A
Efficacy: 50.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89					87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77					75				
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52					50				
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47					45				
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42					40				
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38					36				
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35					33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3595	3595	3595
5°	3593	3538	3546
10°	3579	3429	3377
15°	3544	3293	3181
20°	3481	3132	2957
25°	3394	2946	2722
30°	3308	2736	2461
35°	3197	2526	2182
40°	3093	2303	1880
45°	2964	2059	1540
50°	2835	1786	1349
55°	2661	1491	1245
60°	2428	1304	1164
65°	2124	1191	1080
70°	1723	1073	1005
75°	1237	979	934
80°	852	876	876
85°	624	758	806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2964 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	4.9
10°-20°	131.3	13.3
20°-30°	181.5	18.3
30°-40°	193.3	19.5
40°-50°	169.8	17.2
50°-60°	128.8	13.0
60°-70°	83.6	8.5
70°-80°	41.4	4.2
80°-90°	10.8	1.1
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°	361.3	36.5
0°-40°	554.6	56.1
0°-60°	853.2	86.3
0°-90°	989.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	520	519	512	514	513	49
15°	497	486	462	451	446	140
25°	447	422	388	368	358	206
35°	380	345	300	273	260	238
45°	304	262	212	174	158	235
55°	222	178	124	107	104	198
65°	130	97	73	68	66	129
75°	46	41	37	36	35	52
85°	8	9	10	10	10	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	522.1	522.1	522.1	522.1	522.1
2.5°	521.0	522.1	517.6	521.6	522.7
5°	519.9	518.7	511.9	513.6	513.0
7.5°	516.5	514.2	502.8	501.7	499.4
10°	511.9	506.2	490.4	486.4	483.0
12.5°	505.7	496.6	477.3	469.4	465.4
15°	497.2	485.8	462.0	451.3	446.2
17.5°	487.0	471.1	446.2	431.4	425.7
20°	475.1	456.4	427.4	410.4	403.6
22.5°	462.0	439.9	407.6	389.5	382.1
25°	446.7	422.3	387.8	367.9	358.3
27.5°	431.4	404.2	366.8	344.7	334.5
30°	416.1	384.9	344.1	320.3	309.5
32.5°	399.7	365.1	323.1	297.1	284.6
35°	380.4	345.2	300.5	273.2	259.6
37.5°	361.7	324.3	278.4	247.7	234.7
40°	344.1	304.4	256.2	222.8	209.2
42.5°	324.3	283.5	234.1	199.0	183.7
45°	304.4	261.9	211.5	173.5	158.2
47.5°	283.5	241.5	187.6	150.2	140.0
50°	264.7	220.5	166.7	132.7	125.9
52.5°	243.2	200.1	145.1	119.1	114.5
55°	221.7	178.0	124.2	107.1	103.7
57.5°	199.6	158.2	107.7	96.9	93.5
60°	176.3	137.8	94.7	86.2	84.5
62.5°	153.1	116.8	83.3	77.1	74.8
65°	130.4	96.9	73.1	67.5	66.3
67.5°	107.1	78.8	62.9	59.0	58.4
70°	85.6	64.1	53.3	51.0	49.9
72.5°	65.8	51.0	44.8	43.1	42.5
75°	46.5	40.8	36.8	35.7	35.1
77.5°	31.2	31.2	29.5	28.3	28.9
80°	21.5	22.7	22.1	22.1	22.1
82.5°	14.2	15.3	15.9	15.9	15.9
85°	7.9	9.1	9.6	9.6	10.2
87.5°	2.8	3.4	4.0	4.5	4.5
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	15.00	16.49	15.36	16.81	17.12	11.24	12.73	11.60	13.04	13.36
	3H	16.31	17.65	16.69	17.98	18.34	12.82	14.16	13.20	14.49	14.85
	4H	16.68	17.93	17.08	18.28	18.66	13.42	14.68	13.82	15.03	15.41
	6H	16.86	18.01	17.27	18.38	18.77	13.90	15.05	14.31	15.42	15.81
	8H	16.89	17.99	17.32	18.38	18.78	14.06	15.16	14.48	15.55	15.95
	12H	16.91	17.96	17.34	18.34	18.77	14.17	15.22	14.60	15.60	16.03
4H	2H	15.11	16.36	15.51	16.71	17.09	11.90	13.15	12.30	13.50	13.88
	3H	16.60	17.64	17.01	18.04	18.44	13.68	14.72	14.09	15.12	15.52
	4H	17.07	18.01	17.51	18.42	18.86	14.40	15.33	14.83	15.75	16.19
	6H	17.36	18.17	17.82	18.61	19.07	14.99	15.80	15.45	16.24	16.70
	8H	17.43	18.19	17.89	18.63	19.10	15.19	15.95	15.66	16.40	16.86
	12H	17.47	18.14	17.95	18.62	19.10	15.35	16.02	15.83	16.50	16.97
8H	4H	17.16	17.91	17.62	18.36	18.83	14.71	15.47	15.17	15.91	16.38
	6H	17.52	18.15	18.02	18.64	19.11	15.42	16.04	15.91	16.53	17.01
	8H	17.64	18.20	18.15	18.71	19.20	15.70	16.26	16.21	16.77	17.26
	12H	17.72	18.22	18.23	18.71	19.28	15.93	16.42	16.44	16.91	17.48
12H	4H	17.15	17.83	17.63	18.31	18.78	14.74	15.41	15.22	15.89	16.36
	6H	17.52	18.08	18.04	18.60	19.08	15.47	16.03	15.98	16.54	17.03
	8H	17.68	18.18	18.19	18.67	19.24	15.81	16.30	16.32	16.79	17.36