

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: P1061724

Luminaire Tested: S125RDRP-S610D930-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D930-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

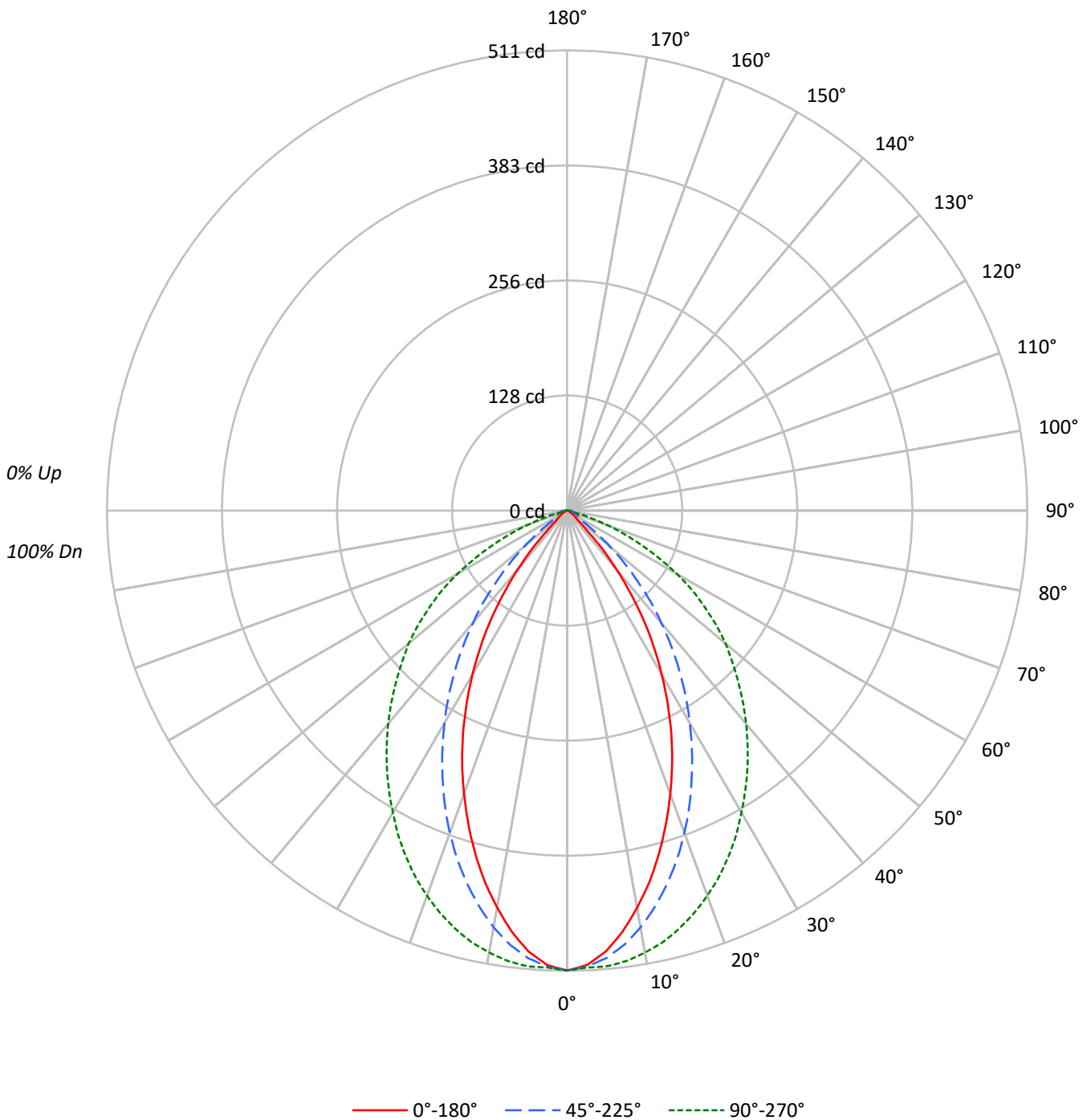
Lumens per Lamp: N/A
Luminaire Lumens: 660.8 lumens
Efficiency: N/A
Efficacy: 33.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53					53			
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49					49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45					45			
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3516	3516	3516
5°	3396	3447	3510
10°	3130	3285	3484
15°	2811	3058	3426
20°	2453	2790	3335
25°	2078	2487	3220
30°	1670	2166	3077
35°	1236	1826	2933
40°	765	1459	2780
45°	298	1066	2613
50°	140	668	2462
55°	102	286	2234
60°	70	204	1938
65°	46	213	1507
70°	46	193	948
75°	61	197	301
80°	91	226	202
85°	134	450	316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2613 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	7.1
10°-20°	121.4	18.4
20°-30°	154.6	23.4
30°-40°	143.9	21.8
40°-50°	99.0	15.0
50°-60°	56.1	8.5
60°-70°	26.5	4.0
70°-80°	8.3	1.3
80°-90°	4.3	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°	322.8	48.8
0°-40°	466.6	70.6
0°-60°	621.7	94.1
0°-90°	660.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	660.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	511	511	511	511	511	
5°	491	498	499	503	508	46
15°	394	408	429	461	481	110
25°	274	291	327	382	424	125
35°	147	167	217	292	349	91
45°	31	49	110	198	268	29
55°	8	10	24	114	186	8
65°	3	3	13	41	92	3
75°	2	5	7	8	11	2
85°	2	4	6	5	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.7	510.7	510.7	510.7	510.7
2.5°	505.1	510.2	506.8	507.3	507.9
5°	491.4	498.3	498.8	503.4	507.9
7.5°	471.6	480.1	486.3	497.1	504.5
10°	447.7	458.0	469.9	487.5	498.3
12.5°	422.2	434.1	450.6	475.6	490.9
15°	394.4	407.5	429.0	461.4	480.7
17.5°	364.9	379.6	405.8	444.3	468.7
20°	334.8	350.7	380.8	425.0	455.1
22.5°	304.7	321.2	354.7	404.1	440.4
25°	273.5	291.1	327.4	382.5	423.9
27.5°	241.7	259.9	300.2	360.4	406.3
30°	210.0	229.3	272.4	337.7	387.0
32.5°	178.8	198.1	245.2	315.0	368.3
35°	147.0	167.4	217.3	291.7	349.0
37.5°	115.2	137.3	190.1	267.9	329.1
40°	85.1	106.1	162.3	244.6	309.3
42.5°	56.7	77.2	137.3	221.3	288.9
45°	30.6	48.8	109.5	198.1	268.4
47.5°	16.5	26.1	85.7	175.4	248.6
50°	13.1	14.8	62.4	154.4	229.8
52.5°	10.8	11.9	40.9	134.5	208.3
55°	8.5	9.6	23.8	114.1	186.1
57.5°	6.8	7.9	15.3	94.8	164.6
60°	5.1	6.2	14.8	76.0	140.7
62.5°	4.0	4.5	13.6	58.5	115.8
65°	2.8	3.4	13.1	40.9	92.5
67.5°	2.3	2.8	11.9	26.1	69.2
70°	2.3	2.3	9.6	17.0	47.1
72.5°	2.3	4.0	8.5	11.3	28.4
75°	2.3	5.1	7.4	7.9	11.3
77.5°	2.3	5.7	6.2	6.2	6.2
80°	2.3	5.1	5.7	5.7	5.1
82.5°	2.3	4.5	5.1	5.7	4.5
85°	1.7	4.5	5.7	5.1	4.0
87.5°	1.7	4.5	5.1	4.5	2.8
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	0.00	0.00	0.00	0.00	0.00	13.62	14.91	13.98	15.22	15.53
	3H	0.00	0.00	0.00	0.00	0.00	14.33	15.48	14.71	15.81	16.17
	4H	0.00	0.00	0.00	0.00	0.00	14.36	15.42	14.76	15.77	16.15
	6H	0.00	0.00	0.00	0.00	0.00	14.31	15.28	14.72	15.65	16.05
	8H	0.00	0.00	0.00	0.00	0.33	14.28	15.21	14.72	15.60	16.00
	12H	0.00	0.08	0.00	0.46	0.90	14.27	15.15	14.70	15.53	15.96
4H	2H	0.00	0.00	0.00	0.00	0.00	13.41	14.47	13.81	14.82	15.20
	3H	0.00	0.00	0.00	0.21	0.61	14.16	15.03	14.58	15.43	15.84
	4H	0.00	0.72	0.38	1.14	1.59	14.19	14.96	14.63	15.38	15.83
	6H	1.24	1.90	1.70	2.35	2.82	14.17	14.84	14.63	15.28	15.75
	8H	1.82	2.44	2.29	2.89	3.36	14.15	14.78	14.62	15.22	15.69
	12H	2.38	2.93	2.86	3.41	3.88	14.16	14.71	14.65	15.19	15.67
8H	4H	1.36	1.98	1.83	2.43	2.90	14.07	14.70	14.54	15.14	15.62
	6H	2.93	3.43	3.43	3.93	4.41	14.06	14.57	14.57	15.07	15.55
	8H	3.71	4.17	4.24	4.69	5.18	14.07	14.53	14.60	15.05	15.54
	12H	4.55	4.95	5.06	5.44	6.02	14.14	14.54	14.65	15.03	15.61
12H	4H	1.58	2.13	2.07	2.61	3.09	14.03	14.58	14.52	15.06	15.54
	6H	3.30	3.75	3.82	4.27	4.76	14.02	14.47	14.54	14.99	15.48
	8H	4.28	4.68	4.80	5.18	5.75	14.06	14.47	14.58	14.96	15.53