

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: P1061713

Luminaire Tested: S125RDRP-S610D927-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D927-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

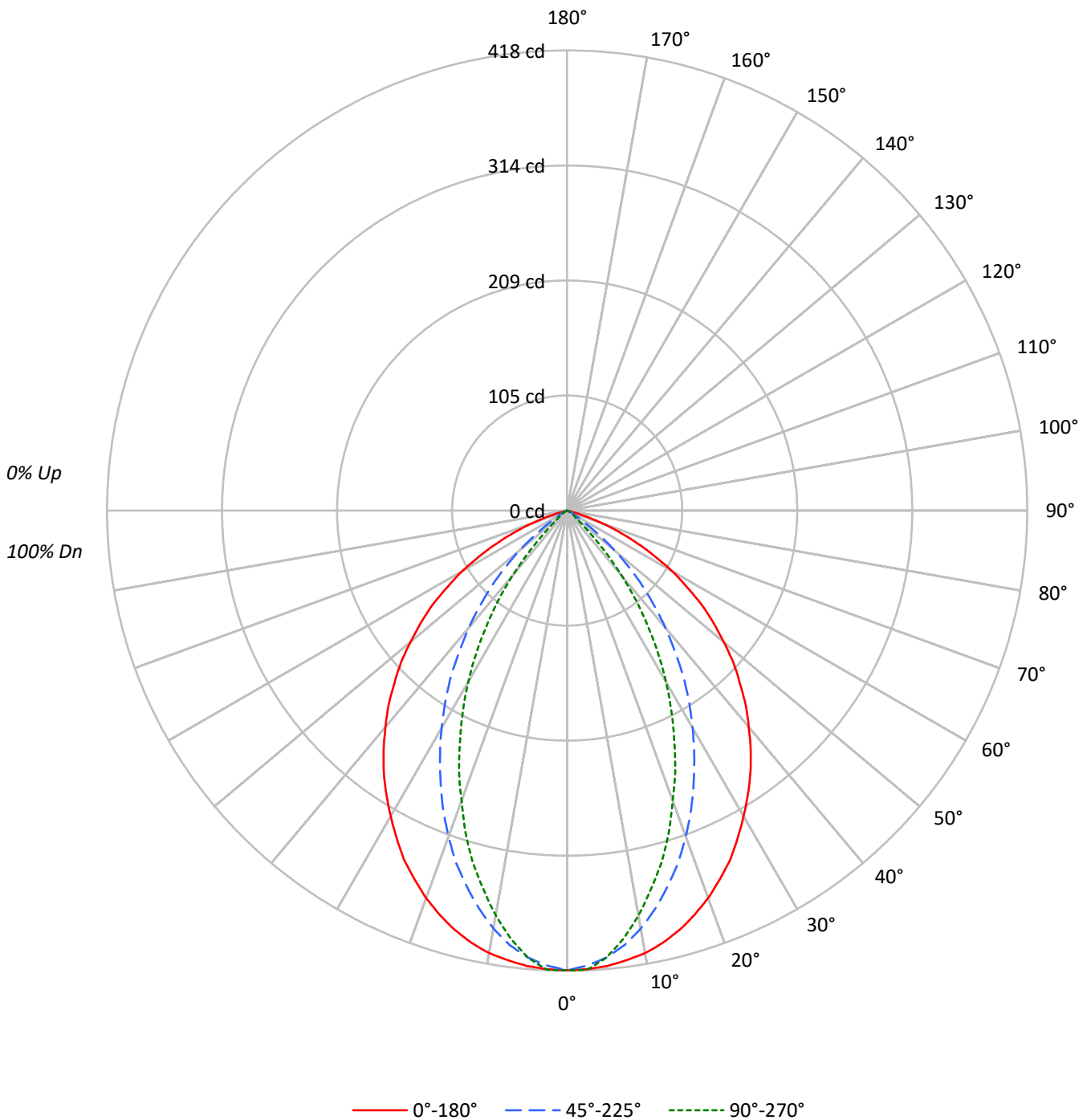
Lumens per Lamp: N/A
Luminaire Lumens: 539.4 lumens
Efficiency: N/A
Efficacy: 27.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2875	2875	2875
5°	2870	2817	2817
10°	2854	2696	2611
15°	2811	2517	2359
20°	2745	2309	2055
25°	2661	2067	1749
30°	2549	1813	1428
35°	2440	1547	1069
40°	2307	1248	693
45°	2162	944	300
50°	1988	602	112
55°	1792	264	79
60°	1518	114	54
65°	1149	72	28
70°	699	34	12
75°	146	16	16
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2162 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	7.1
10°-20°	100.3	18.6
20°-30°	128.8	23.9
30°-40°	121.3	22.5
40°-50°	84.8	15.7
50°-60°	45.3	8.4
60°-70°	18.1	3.4
70°-80°	2.4	0.4
80°-90°	0.0	0.0
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°	267.6	49.6
0°-40°	388.9	72.1
0°-60°	519.0	96.2
0°-90°	539.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	539.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	415	414	408	409	408	39
15°	394	382	353	336	331	111
25°	350	320	272	242	230	161
35°	290	244	184	142	127	181
45°	222	166	97	47	31	171
55°	149	91	22	8	7	132
65°	70	28	4	2	2	70
75°	6	2	1	1	1	11
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	417.5	417.5	417.5	417.5	417.5
2.5°	417.0	417.5	413.7	417.0	417.5
5°	415.3	414.2	407.6	408.7	407.6
7.5°	412.0	409.3	398.2	394.4	392.2
10°	408.2	402.1	385.6	377.3	373.4
12.5°	402.1	393.3	370.1	357.5	352.0
15°	394.4	381.7	353.1	336.5	331.0
17.5°	385.0	368.5	335.4	315.1	306.8
20°	374.6	352.5	315.1	290.8	280.4
22.5°	362.4	337.1	294.1	267.1	256.7
25°	350.3	319.5	272.1	242.4	230.2
27.5°	335.4	301.3	250.1	218.1	204.9
30°	320.6	283.1	228.0	193.3	179.6
32.5°	305.7	263.8	206.0	167.4	153.7
35°	290.3	244.0	184.0	142.1	127.2
37.5°	273.8	224.2	160.3	117.9	102.5
40°	256.7	204.9	138.8	94.2	77.1
42.5°	240.2	185.6	117.3	71.1	52.3
45°	222.0	166.3	96.9	46.8	30.8
47.5°	204.9	147.6	76.0	27.0	16.0
50°	185.6	128.3	56.2	14.3	10.5
52.5°	167.4	109.6	37.5	9.4	8.3
55°	149.3	91.4	22.0	7.7	6.6
57.5°	128.3	73.8	12.1	6.1	5.0
60°	110.2	57.8	8.3	4.4	3.9
62.5°	89.2	42.4	6.1	3.3	2.8
65°	70.5	28.1	4.4	2.2	1.7
67.5°	52.3	16.5	2.8	1.1	1.1
70°	34.7	8.8	1.7	0.6	0.6
72.5°	18.2	3.9	1.1	0.6	0.6
75°	5.5	1.7	0.6	0.6	0.6
77.5°	0.0	0.6	0.0	0.0	0.6
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	12.61	13.87	12.98	14.19	14.50	0.00	0.00	0.00	0.00	0.00
	3H	13.19	14.31	13.58	14.64	15.00	0.00	0.00	0.00	0.00	0.00
	4H	13.16	14.19	13.56	14.54	14.93	0.00	0.00	0.00	0.00	0.00
	6H	13.07	14.02	13.49	14.39	14.78	0.00	0.00	0.00	0.00	0.00
	8H	13.03	13.92	13.46	14.31	14.72	0.00	0.00	0.00	0.00	0.00
	12H	12.98	13.83	13.41	14.22	14.65	0.00	0.00	0.00	0.00	0.00
4H	2H	12.38	13.42	12.79	13.77	14.15	0.00	0.00	0.00	0.00	0.00
	3H	12.98	13.81	13.39	14.22	14.62	0.00	0.00	0.00	0.00	0.00
	4H	12.93	13.67	13.36	14.09	14.53	0.00	0.00	0.00	0.00	0.00
	6H	12.84	13.48	13.30	13.92	14.39	0.00	0.00	0.00	0.00	0.00
	8H	12.78	13.37	13.25	13.82	14.29	0.00	0.00	0.00	0.00	0.00
	12H	12.73	13.25	13.22	13.73	14.21	0.00	0.00	0.00	0.00	0.00
8H	4H	12.78	13.37	13.25	13.82	14.29	0.00	0.00	0.00	0.00	0.00
	6H	12.67	13.15	13.18	13.65	14.13	0.00	0.00	0.00	0.00	0.00
	8H	12.61	13.04	13.13	13.55	14.05	0.00	0.00	0.00	0.00	0.00
	12H	12.56	12.94	13.07	13.43	14.01	0.00	0.00	0.00	0.00	0.00
12H	4H	12.73	13.25	13.22	13.73	14.21	0.00	0.00	0.00	0.00	0.00
	6H	12.60	13.04	13.13	13.55	14.05	0.00	0.00	0.00	0.00	0.00
	8H	12.56	12.94	13.07	13.43	14.01	0.00	0.00	0.00	0.00	0.00