

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: P1061755

Luminaire Tested: S125RDRP-S610D950-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061755
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-S610D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

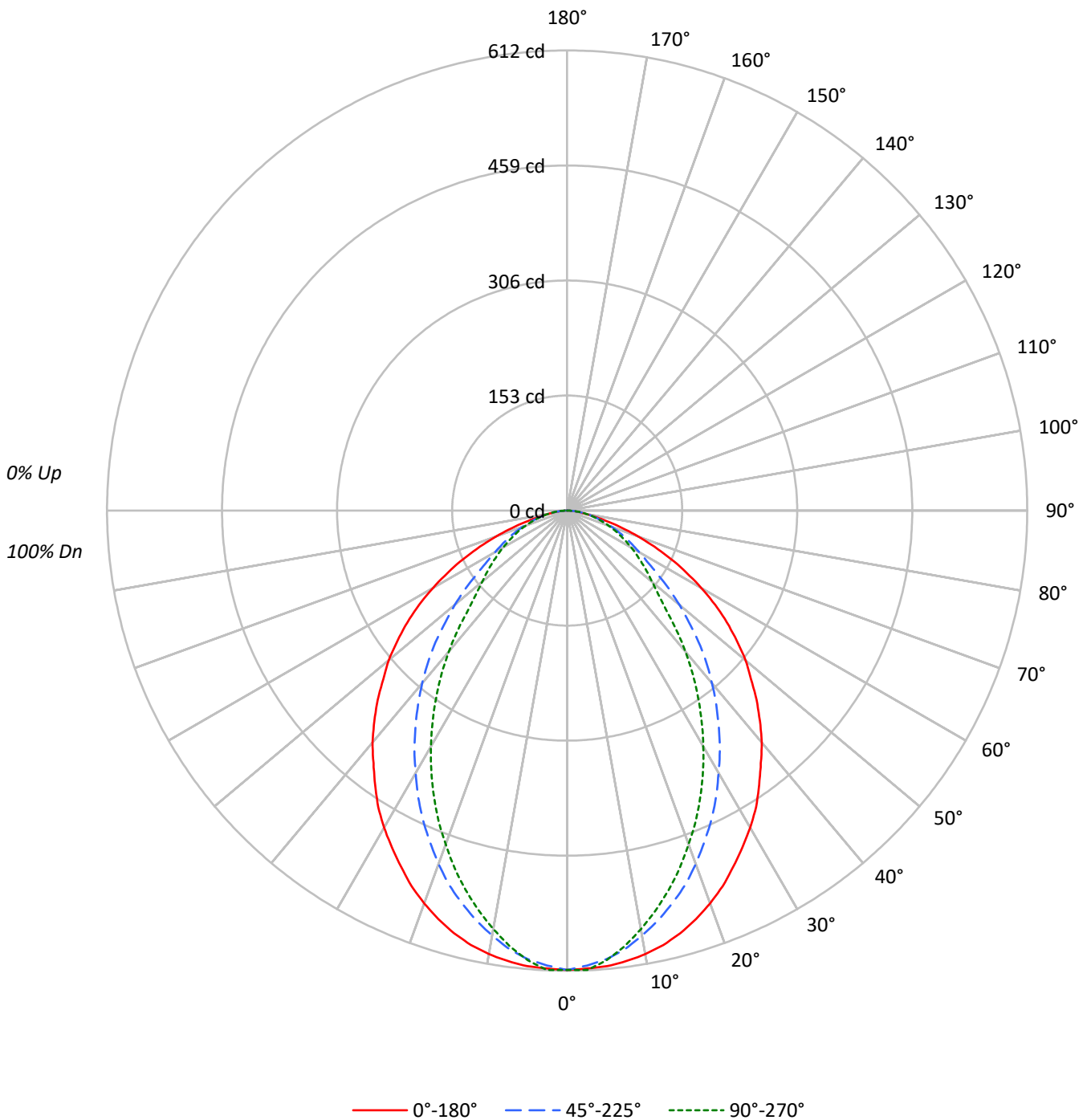
Lumens per Lamp: N/A
Luminaire Lumens: 1157.4 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	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	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	75	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°	4206	4206	4206
5°	4204	4140	4149
10°	4188	4012	3952
15°	4147	3853	3722
20°	4073	3665	3461
25°	3971	3447	3185
30°	3871	3202	2880
35°	3741	2955	2554
40°	3619	2695	2200
45°	3468	2409	1802
50°	3318	2089	1578
55°	3114	1744	1457
60°	2841	1526	1361
65°	2486	1395	1264
70°	2017	1256	1176
75°	1447	1147	1093
80°	999	1027	1027
85°	735	893	940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3468 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	4.9
10°-20°	153.6	13.3
20°-30°	212.4	18.3
30°-40°	226.2	19.5
40°-50°	198.7	17.2
50°-60°	150.7	13.0
60°-70°	97.8	8.5
70°-80°	48.5	4.2
80°-90°	12.7	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°	422.8	36.5
0°-40°	649.0	56.1
0°-60°	998.4	86.3
0°-90°	1157.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1157.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	611	611	611	611	611	
5°	608	607	599	601	600	58
15°	582	568	541	528	522	164
25°	523	494	454	430	419	241
35°	445	404	352	320	304	279
45°	356	306	247	203	185	275
55°	259	208	145	125	121	231
65°	153	113	86	79	78	151
75°	54	48	43	42	41	61
85°	9	11	11	11	12	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	610.9	610.9	610.9	610.9	610.9
2.5°	609.6	610.9	605.6	610.3	611.6
5°	608.3	607.0	599.0	601.0	600.3
7.5°	604.3	601.7	588.4	587.1	584.4
10°	599.0	592.4	573.8	569.2	565.2
12.5°	591.7	581.1	558.5	549.3	544.6
15°	581.8	568.5	540.6	528.0	522.1
17.5°	569.8	551.2	522.1	504.8	498.2
20°	555.9	534.0	500.2	480.3	472.3
22.5°	540.6	514.8	476.9	455.7	447.1
25°	522.7	494.2	453.7	430.5	419.2
27.5°	504.8	473.0	429.2	403.3	391.4
30°	486.9	450.4	402.7	374.8	362.2
32.5°	467.7	427.2	378.1	347.6	333.0
35°	445.1	404.0	351.6	319.7	303.8
37.5°	423.2	379.4	325.7	289.9	274.6
40°	402.7	356.2	299.8	260.7	244.8
42.5°	379.4	331.7	274.0	232.8	214.9
45°	356.2	306.5	247.4	203.0	185.1
47.5°	331.7	282.6	219.6	175.8	163.8
50°	309.8	258.0	195.0	155.2	147.3
52.5°	284.6	234.2	169.8	139.3	134.0
55°	259.4	208.3	145.3	125.4	121.4
57.5°	233.5	185.1	126.0	113.4	109.5
60°	206.3	161.2	110.8	100.8	98.8
62.5°	179.1	136.6	97.5	90.2	87.6
65°	152.6	113.4	85.6	78.9	77.6
67.5°	125.4	92.2	73.6	69.0	68.3
70°	100.2	75.0	62.4	59.7	58.4
72.5°	76.9	59.7	52.4	50.4	49.8
75°	54.4	47.8	43.1	41.8	41.1
77.5°	36.5	36.5	34.5	33.2	33.8
80°	25.2	26.5	25.9	25.9	25.9
82.5°	16.6	17.9	18.6	18.6	18.6
85°	9.3	10.6	11.3	11.3	11.9
87.5°	3.3	4.0	4.6	5.3	5.3
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	15.54	17.04	15.91	17.35	17.66	11.78	13.28	12.15	13.59	13.90
	3H	16.86	18.19	17.23	18.52	18.88	13.37	14.71	13.75	15.03	15.40
	4H	17.23	18.48	17.63	18.83	19.21	13.97	15.22	14.37	15.57	15.95
	6H	17.40	18.56	17.81	18.93	19.32	14.44	15.60	14.86	15.97	16.36
	8H	17.44	18.54	17.87	18.93	19.33	14.60	15.70	15.03	16.09	16.50
	12H	17.45	18.50	17.88	18.89	19.32	14.72	15.77	15.15	16.15	16.58
4H	2H	15.66	16.91	16.06	17.26	17.64	12.45	13.70	12.85	14.05	14.43
	3H	17.14	18.18	17.56	18.58	18.98	14.23	15.27	14.64	15.67	16.07
	4H	17.62	18.55	18.05	18.97	19.41	14.95	15.88	15.38	16.30	16.74
	6H	17.91	18.72	18.36	19.16	19.62	15.54	16.35	15.99	16.79	17.25
	8H	17.97	18.73	18.44	19.18	19.64	15.74	16.50	16.21	16.94	17.41
	12H	18.02	18.69	18.50	19.17	19.64	15.90	16.57	16.38	17.05	17.52
8H	4H	17.70	18.46	18.17	18.91	19.37	15.26	16.02	15.72	16.46	16.93
	6H	18.07	18.69	18.56	19.18	19.66	15.97	16.59	16.46	17.08	17.56
	8H	18.18	18.74	18.70	19.25	19.74	16.25	16.81	16.76	17.32	17.81
	12H	18.27	18.76	18.78	19.26	19.82	16.48	16.97	16.99	17.46	18.03
12H	4H	17.70	18.37	18.18	18.85	19.32	15.28	15.96	15.77	16.44	16.91
	6H	18.07	18.63	18.58	19.14	19.63	16.02	16.58	16.53	17.09	17.58
	8H	18.23	18.72	18.74	19.22	19.78	16.35	16.85	16.86	17.34	17.91