

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: P1061752

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D950-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

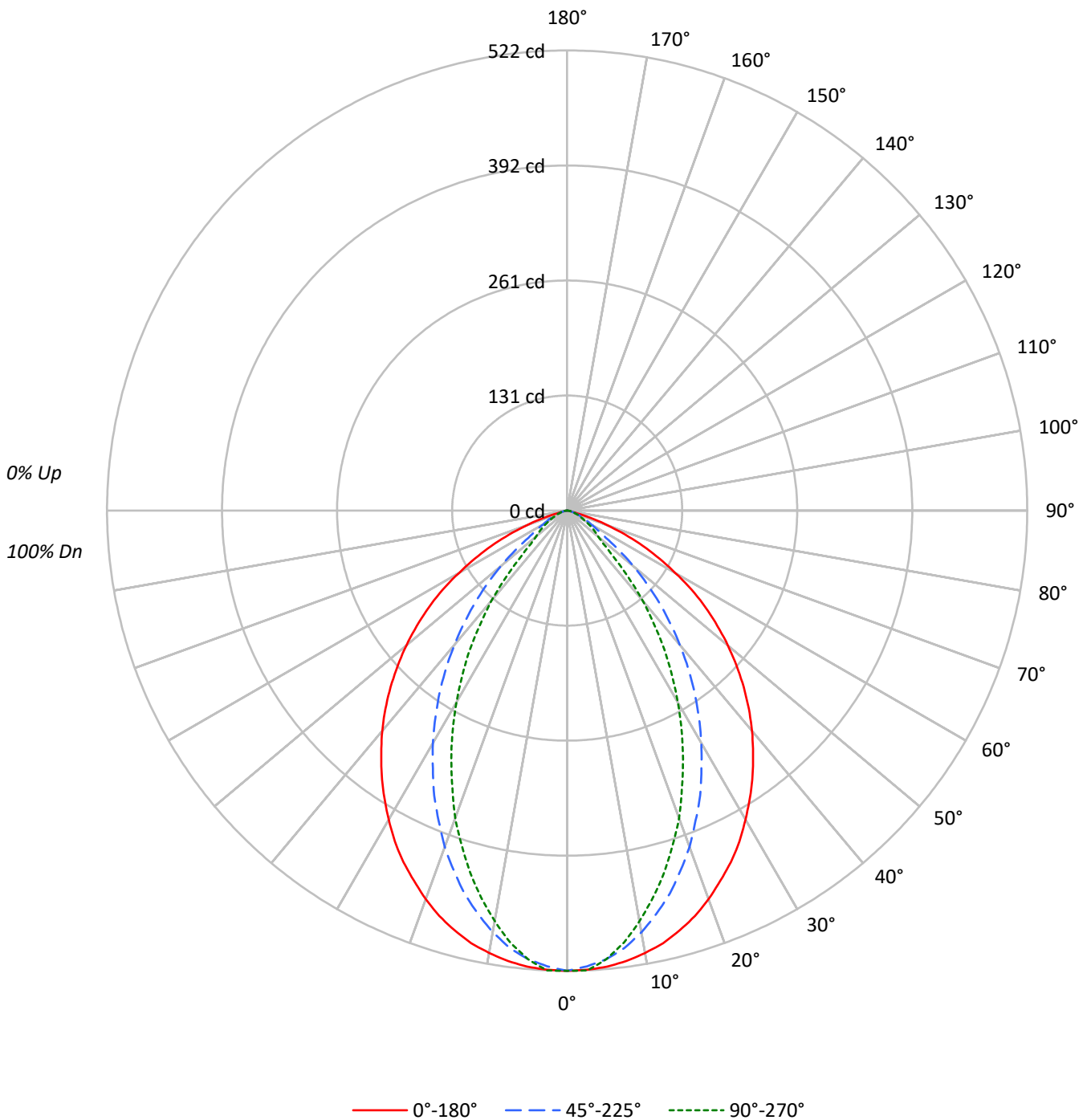
Lumens per Lamp: N/A
Luminaire Lumens: 755.0 lumens
Efficiency: N/A
Efficacy: 38.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	97	98	96	95	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3595	3595	3595
5°	3590	3530	3530
10°	3562	3395	3307
15°	3513	3206	3031
20°	3436	2975	2722
25°	3341	2711	2363
30°	3218	2421	1994
35°	3083	2119	1617
40°	2934	1789	1198
45°	2759	1434	723
50°	2550	1052	497
55°	2301	645	414
60°	1955	438	329
65°	1546	336	259
70°	974	240	213
75°	317	176	176
80°	107	131	159
85°	55	103	103

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2759 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	6.4
10°-20°	127.5	16.9
20°-30°	167.7	22.2
30°-40°	164.8	21.8
40°-50°	124.7	16.5
50°-60°	75.6	10.0
60°-70°	35.7	4.7
70°-80°	9.3	1.2
80°-90°	1.4	0.2
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°	343.5	45.5
0°-40°	508.3	67.3
0°-60°	708.6	93.9
0°-90°	755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	519	518	511	512	511	49
15°	493	480	450	432	425	139
25°	440	407	357	324	311	202
35°	367	318	252	208	192	229
45°	283	223	147	94	74	218
55°	192	131	54	36	34	171
65°	95	48	21	17	16	94
75°	12	8	7	7	7	18
85°	1	1	1	1	1	1
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°	521.4	521.4	517.4	522.1	522.1
5°	519.4	518.1	510.8	511.5	510.8
7.5°	515.4	512.8	500.2	496.9	494.2
10°	509.5	504.2	485.6	477.6	473.0
12.5°	502.8	493.5	468.3	457.1	449.8
15°	492.9	479.6	449.8	432.5	425.2
17.5°	482.3	463.0	427.9	407.3	398.0
20°	469.0	446.4	406.0	380.8	371.5
22.5°	454.4	427.9	380.8	352.9	340.3
25°	439.8	406.6	356.9	323.7	311.1
27.5°	423.2	385.4	329.7	295.2	281.3
30°	404.7	364.2	304.5	268.7	250.8
32.5°	386.1	342.3	278.0	238.8	220.9
35°	366.8	317.8	252.1	207.6	192.4
37.5°	346.3	294.5	225.5	179.1	161.2
40°	326.4	271.3	199.0	149.9	133.3
42.5°	305.1	248.1	172.5	121.4	102.8
45°	283.3	222.9	147.3	93.5	74.3
47.5°	260.7	200.3	122.1	69.0	55.7
50°	238.1	176.5	98.2	51.1	46.4
52.5°	214.9	153.2	74.3	42.5	40.5
55°	191.7	131.3	53.7	36.5	34.5
57.5°	167.8	107.5	40.5	31.2	29.2
60°	142.0	86.2	31.8	25.9	23.9
62.5°	118.1	67.7	25.9	21.2	19.9
65°	94.9	48.4	20.6	17.2	15.9
67.5°	71.0	32.5	15.9	13.3	13.3
70°	48.4	21.2	11.9	10.6	10.6
72.5°	29.2	12.6	8.6	8.6	8.6
75°	11.9	8.0	6.6	6.6	6.6
77.5°	4.0	4.6	4.6	5.3	5.3
80°	2.7	2.7	3.3	4.0	4.0
82.5°	1.3	2.0	2.0	2.7	2.7
85°	0.7	0.7	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.7	0.7
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	13.78	15.11	14.14	15.42	15.73	4.43	5.77	4.80	6.08	6.39
	3H	14.48	15.66	14.86	15.99	16.35	5.22	6.39	5.60	6.72	7.09
	4H	14.50	15.59	14.90	15.94	16.33	5.46	6.56	5.86	6.91	7.29
	6H	14.43	15.43	14.84	15.80	16.20	5.64	6.65	6.06	7.02	7.41
	8H	14.39	15.34	14.82	15.73	16.13	5.69	6.64	6.12	7.03	7.44
	12H	14.35	15.26	14.78	15.64	16.07	5.70	6.61	6.13	6.99	7.42
4H	2H	13.61	14.70	14.01	15.05	15.44	4.92	6.02	5.33	6.37	6.75
	3H	14.35	15.24	14.76	15.65	16.05	5.83	6.72	6.24	7.12	7.53
	4H	14.37	15.16	14.81	15.58	16.03	6.14	6.93	6.57	7.35	7.80
	6H	14.31	14.99	14.77	15.44	15.91	6.40	7.08	6.86	7.53	8.00
	8H	14.26	14.90	14.73	15.34	15.81	6.47	7.11	6.94	7.55	8.02
	12H	14.21	14.78	14.70	15.26	15.73	6.49	7.06	6.98	7.54	8.01
8H	4H	14.25	14.89	14.72	15.34	15.81	6.25	6.89	6.72	7.33	7.81
	6H	14.18	14.70	14.68	15.19	15.68	6.57	7.09	7.07	7.58	8.07
	8H	14.12	14.59	14.65	15.11	15.60	6.68	7.14	7.20	7.66	8.15
	12H	14.08	14.49	14.60	14.99	15.56	6.74	7.15	7.26	7.65	8.22
12H	4H	14.21	14.77	14.70	15.25	15.73	6.22	6.78	6.71	7.27	7.74
	6H	14.12	14.59	14.64	15.10	15.59	6.54	7.01	7.06	7.52	8.01
	8H	14.09	14.50	14.60	14.99	15.56	6.68	7.09	7.20	7.59	8.16