

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: P1061735

Luminaire Tested: S125RDRP-S610D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D935-X4F0-XX-UDD-SVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

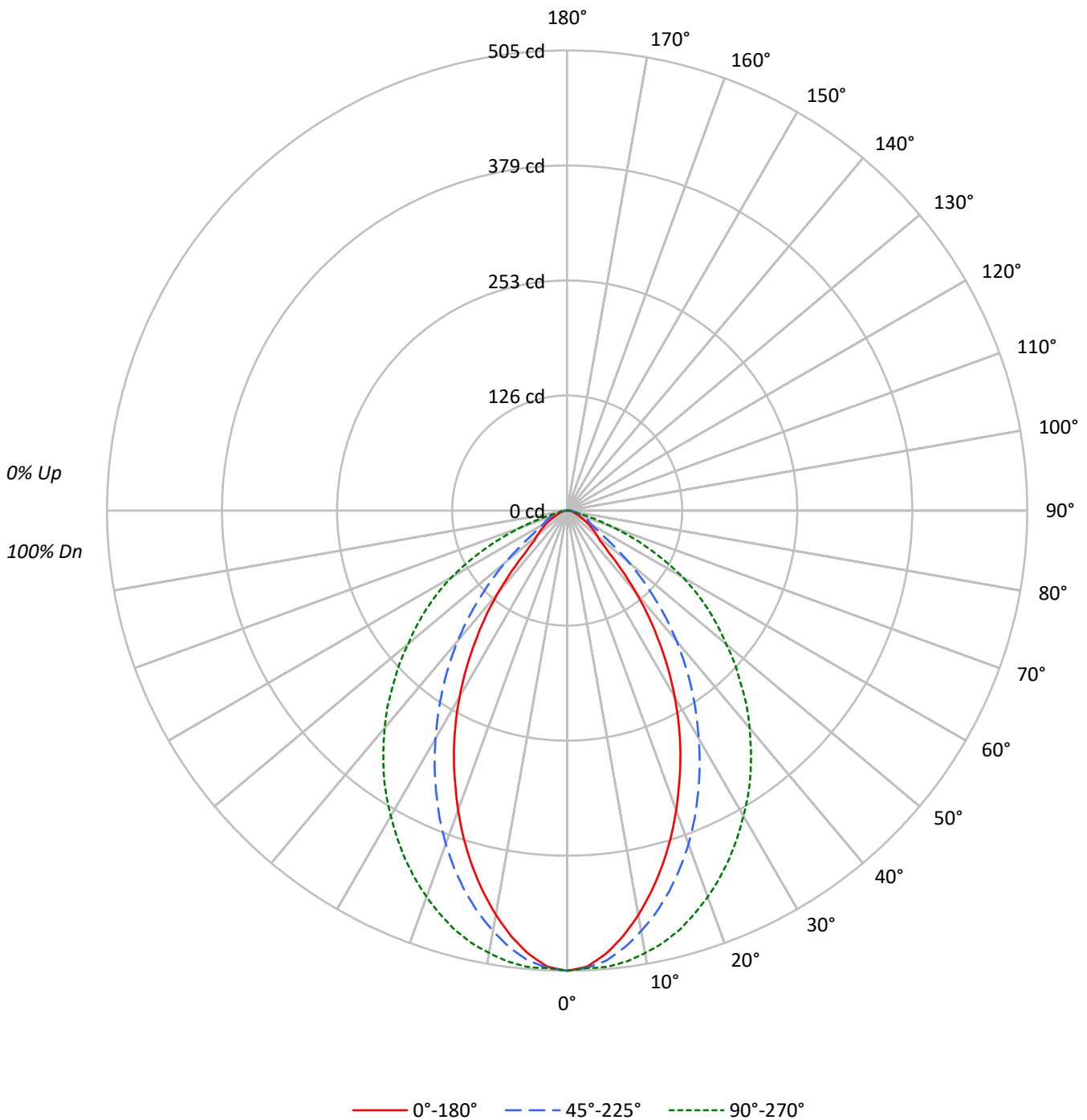
Lumens per Lamp: N/A
Luminaire Lumens: 729.3 lumens
Efficiency: N/A
Efficacy: 37.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3477	3477	3477
5°	3375	3425	3474
10°	3150	3275	3447
15°	2874	3084	3395
20°	2564	2853	3305
25°	2235	2585	3200
30°	1876	2296	3077
35°	1480	1999	2951
40°	1061	1680	2800
45°	624	1318	2625
50°	462	950	2439
55°	389	575	2265
60°	314	421	2022
65°	244	401	1621
70°	205	374	1097
75°	192	335	479
80°	190	333	309
85°	237	427	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2625 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	6.4
10°-20°	122.3	16.8
20°-30°	159.8	21.9
30°-40°	155.5	21.3
40°-50°	116.2	15.9
50°-60°	72.1	9.9
60°-70°	37.9	5.2
70°-80°	13.8	1.9
80°-90°	5.2	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°	328.6	45.1
0°-40°	484.1	66.4
0°-60°	672.4	92.2
0°-90°	729.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	729.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	505	505	505	505	505	
5°	488	495	496	498	503	45
15°	403	415	433	459	476	113
25°	294	309	340	386	421	134
35°	176	195	238	301	351	110
45°	64	84	135	212	270	54
55°	32	34	48	125	189	29
65°	15	16	25	53	100	16
75°	7	8	13	14	18	8
85°	3	5	5	5	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	505.0	505.0	505.0	505.0	505.0
2.5°	500.9	505.0	502.1	502.1	502.7
5°	488.3	494.9	495.5	498.5	502.7
7.5°	470.9	478.7	483.5	492.5	499.1
10°	450.5	459.5	468.5	483.5	493.1
12.5°	427.8	438.5	451.7	472.1	485.9
15°	403.2	415.2	432.6	458.9	476.3
17.5°	377.4	390.0	411.6	443.3	464.3
20°	349.9	363.7	389.4	425.4	451.1
22.5°	321.7	337.3	365.5	406.2	436.8
25°	294.2	309.1	340.3	386.4	421.2
27.5°	265.4	281.0	315.1	366.1	404.4
30°	236.0	252.8	288.8	345.1	387.0
32.5°	206.7	224.1	263.0	323.5	369.7
35°	176.1	195.3	237.8	301.4	351.1
37.5°	147.4	167.8	212.1	278.6	331.3
40°	118.0	139.0	186.9	256.4	311.5
42.5°	89.3	110.8	161.2	233.7	291.8
45°	64.1	83.9	135.4	211.5	269.6
47.5°	49.1	60.5	111.4	188.7	249.8
50°	43.1	46.7	88.7	166.6	227.7
52.5°	37.7	40.1	65.9	145.0	208.5
55°	32.4	34.1	47.9	124.6	188.7
57.5°	27.6	29.4	36.5	106.0	168.3
60°	22.8	24.6	30.6	87.5	146.8
62.5°	19.2	19.8	27.6	70.1	122.8
65°	15.0	16.2	24.6	52.7	99.5
67.5°	12.6	13.2	21.6	37.7	76.7
70°	10.2	10.8	18.6	26.4	54.5
72.5°	9.0	9.0	15.6	19.2	34.7
75°	7.2	8.4	12.6	13.8	18.0
77.5°	6.0	8.4	10.8	10.2	9.6
80°	4.8	7.8	8.4	8.4	7.8
82.5°	4.2	6.6	7.2	6.6	6.0
85°	3.0	5.4	5.4	5.4	4.2
87.5°	2.4	4.8	4.2	4.2	3.0
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	4.13	5.48	4.49	5.79	6.10	13.82	15.17	14.18	15.48	15.80
	3H	4.97	6.16	5.35	6.49	6.86	14.73	15.93	15.11	16.26	16.62
	4H	5.33	6.44	5.73	6.79	7.18	14.83	15.95	15.23	16.30	16.68
	6H	5.70	6.73	6.11	7.10	7.49	14.82	15.84	15.23	16.21	16.61
	8H	5.88	6.85	6.31	7.24	7.65	14.80	15.78	15.23	16.17	16.57
	12H	6.04	6.97	6.47	7.35	7.79	14.79	15.72	15.22	16.10	16.53
4H	2H	4.96	6.07	5.36	6.42	6.81	13.67	14.79	14.07	15.14	15.52
	3H	6.01	6.93	6.43	7.33	7.73	14.66	15.57	15.07	15.98	16.38
	4H	6.47	7.29	6.90	7.71	8.15	14.79	15.61	15.22	16.03	16.47
	6H	7.03	7.73	7.49	8.18	8.64	14.82	15.53	15.28	15.97	16.44
	8H	7.29	7.95	7.75	8.39	8.86	14.82	15.48	15.29	15.93	16.40
	12H	7.53	8.11	8.01	8.59	9.07	14.83	15.41	15.32	15.90	16.37
8H	4H	7.02	7.68	7.49	8.13	8.60	14.71	15.37	15.18	15.82	16.29
	6H	7.80	8.34	8.30	8.84	9.32	14.77	15.31	15.28	15.81	16.29
	8H	8.22	8.70	8.74	9.22	9.71	14.80	15.29	15.32	15.80	16.29
	12H	8.64	9.06	9.15	9.56	10.13	14.86	15.28	15.37	15.78	16.35
12H	4H	7.08	7.67	7.57	8.15	8.62	14.68	15.26	15.16	15.75	16.22
	6H	7.95	8.43	8.47	8.95	9.44	14.74	15.22	15.26	15.74	16.23
	8H	8.47	8.90	8.99	9.40	9.97	14.81	15.23	15.32	15.73	16.30