

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: P1061750

Luminaire Tested: S125RDRP-S610D950-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D950-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

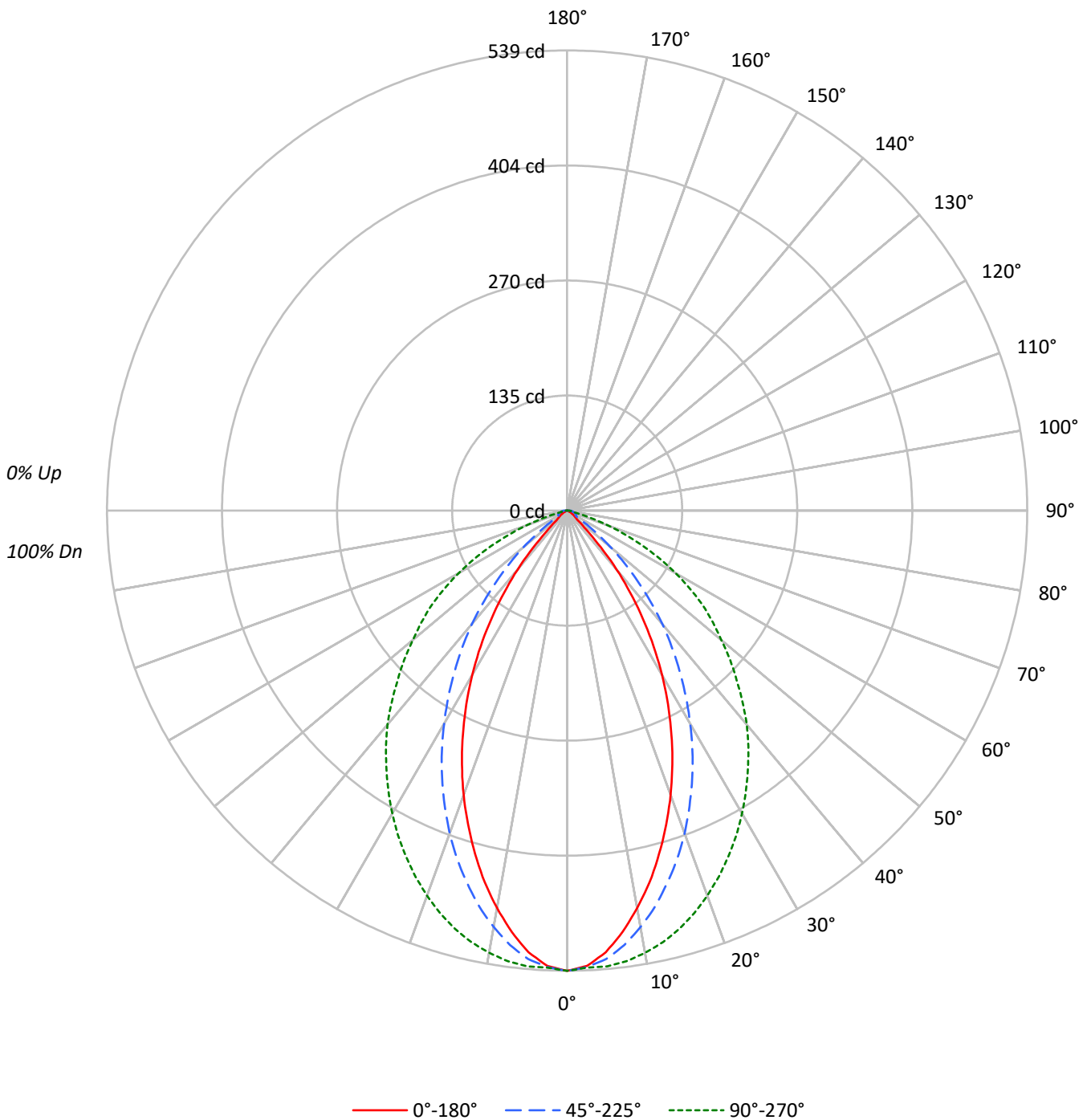
Lumens per Lamp: N/A
Luminaire Lumens: 693.4 lumens
Efficiency: N/A
Efficacy: 35.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3712	3712	3712
5°	3588	3644	3703
10°	3305	3463	3676
15°	2967	3223	3615
20°	2597	2948	3517
25°	2194	2633	3394
30°	1768	2291	3256
35°	1300	1931	3102
40°	812	1558	2942
45°	304	1138	2734
50°	142	711	2525
55°	103	295	2335
60°	73	156	2020
65°	44	184	1601
70°	40	213	1017
75°	53	213	319
80°	79	262	238
85°	158	419	316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2734 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	7.1
10°-20°	128.0	18.5
20°-30°	163.0	23.5
30°-40°	151.7	21.9
40°-50°	104.0	15.0
50°-60°	57.3	8.3
60°-70°	27.1	3.9
70°-80°	8.5	1.2
80°-90°	4.3	0.6
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°	340.4	49.1
0°-40°	492.2	71.0
0°-60°	653.4	94.2
0°-90°	693.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	693.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	519	526	527	531	536	48
15°	416	430	452	486	507	116
25°	289	307	347	402	447	132
35°	155	177	230	305	369	96
45°	31	52	117	207	281	30
55°	9	10	25	116	194	8
65°	3	3	11	42	98	3
75°	2	3	8	9	12	2
85°	2	5	5	5	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	539.1	539.1	539.1	539.1	539.1
2.5°	533.8	539.1	535.1	535.1	535.8
5°	519.2	525.8	527.2	531.1	535.8
7.5°	497.9	506.6	513.2	524.5	532.5
10°	472.7	483.3	495.3	513.9	525.8
12.5°	446.2	457.4	475.4	501.3	517.9
15°	416.3	429.6	452.1	486.0	507.2
17.5°	385.7	400.3	428.2	468.1	494.6
20°	354.5	369.8	402.3	446.8	480.0
22.5°	322.0	338.6	374.5	424.9	464.1
25°	288.8	306.7	346.6	402.3	446.8
27.5°	255.6	274.2	318.0	379.1	428.9
30°	222.4	241.7	288.1	355.2	409.6
32.5°	188.6	209.8	258.9	331.3	389.7
35°	154.7	176.6	229.7	305.4	369.1
37.5°	121.5	144.1	201.2	280.8	348.6
40°	90.3	112.9	173.3	256.3	327.3
42.5°	58.4	82.3	144.1	231.0	304.1
45°	31.2	52.5	116.9	207.1	280.8
47.5°	16.6	27.9	91.0	183.2	258.9
50°	13.3	15.3	66.4	159.3	235.7
52.5°	10.6	12.0	42.5	134.8	215.1
55°	8.6	10.0	24.6	115.5	194.5
57.5°	6.6	8.0	13.9	96.3	170.6
60°	5.3	6.0	11.3	77.0	146.7
62.5°	3.3	4.6	11.3	59.8	122.8
65°	2.7	3.3	11.3	42.5	98.3
67.5°	2.7	2.7	11.3	27.9	73.7
70°	2.0	2.0	10.6	17.9	50.5
72.5°	2.0	2.0	9.3	12.0	29.2
75°	2.0	3.3	8.0	8.6	12.0
77.5°	2.0	5.3	7.3	7.3	6.6
80°	2.0	5.3	6.6	6.0	6.0
82.5°	2.0	5.3	5.3	5.3	4.6
85°	2.0	4.6	5.3	4.6	4.0
87.5°	2.0	4.6	4.6	4.6	2.7
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	0.00	0.00	0.00	0.00	0.00	13.60	14.89	13.97	15.20	15.52
	3H	0.00	0.00	0.00	0.00	0.00	14.39	15.53	14.77	15.86	16.22
	4H	0.00	0.00	0.00	0.00	0.00	14.42	15.47	14.82	15.83	16.21
	6H	0.00	0.00	0.00	0.00	0.00	14.37	15.34	14.79	15.71	16.11
	8H	0.00	0.00	0.00	0.00	0.00	14.35	15.27	14.78	15.66	16.06
	12H	0.00	0.00	0.00	0.00	0.42	14.33	15.21	14.76	15.59	16.02
4H	2H	0.00	0.00	0.00	0.00	0.00	13.39	14.44	13.79	14.80	15.18
	3H	0.00	0.00	0.00	0.00	0.00	14.21	15.08	14.63	15.48	15.89
	4H	0.00	0.00	0.00	0.05	0.50	14.25	15.02	14.68	15.44	15.88
	6H	0.35	1.02	0.82	1.46	1.93	14.24	14.90	14.70	15.35	15.81
	8H	1.09	1.71	1.56	2.16	2.63	14.22	14.84	14.69	15.29	15.76
	12H	1.83	2.38	2.32	2.86	3.34	14.22	14.77	14.71	15.25	15.73
8H	4H	0.90	1.52	1.37	1.97	2.44	14.13	14.75	14.60	15.20	15.67
	6H	2.64	3.14	3.14	3.64	4.12	14.14	14.64	14.64	15.14	15.62
	8H	3.59	4.04	4.11	4.56	5.05	14.14	14.60	14.66	15.11	15.60
	12H	4.51	4.91	5.03	5.41	5.98	14.19	14.59	14.70	15.08	15.66
12H	4H	1.20	1.75	1.69	2.23	2.70	14.09	14.64	14.58	15.12	15.60
	6H	3.09	3.55	3.61	4.06	4.55	14.09	14.54	14.61	15.06	15.55
	8H	4.22	4.62	4.74	5.12	5.69	14.13	14.53	14.65	15.03	15.60