

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: P1061690

Luminaire Tested: S125RDRP-S610D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061690
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-S610D835-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, 80 CRI LEDS
Ballast/Driver: -

Summary

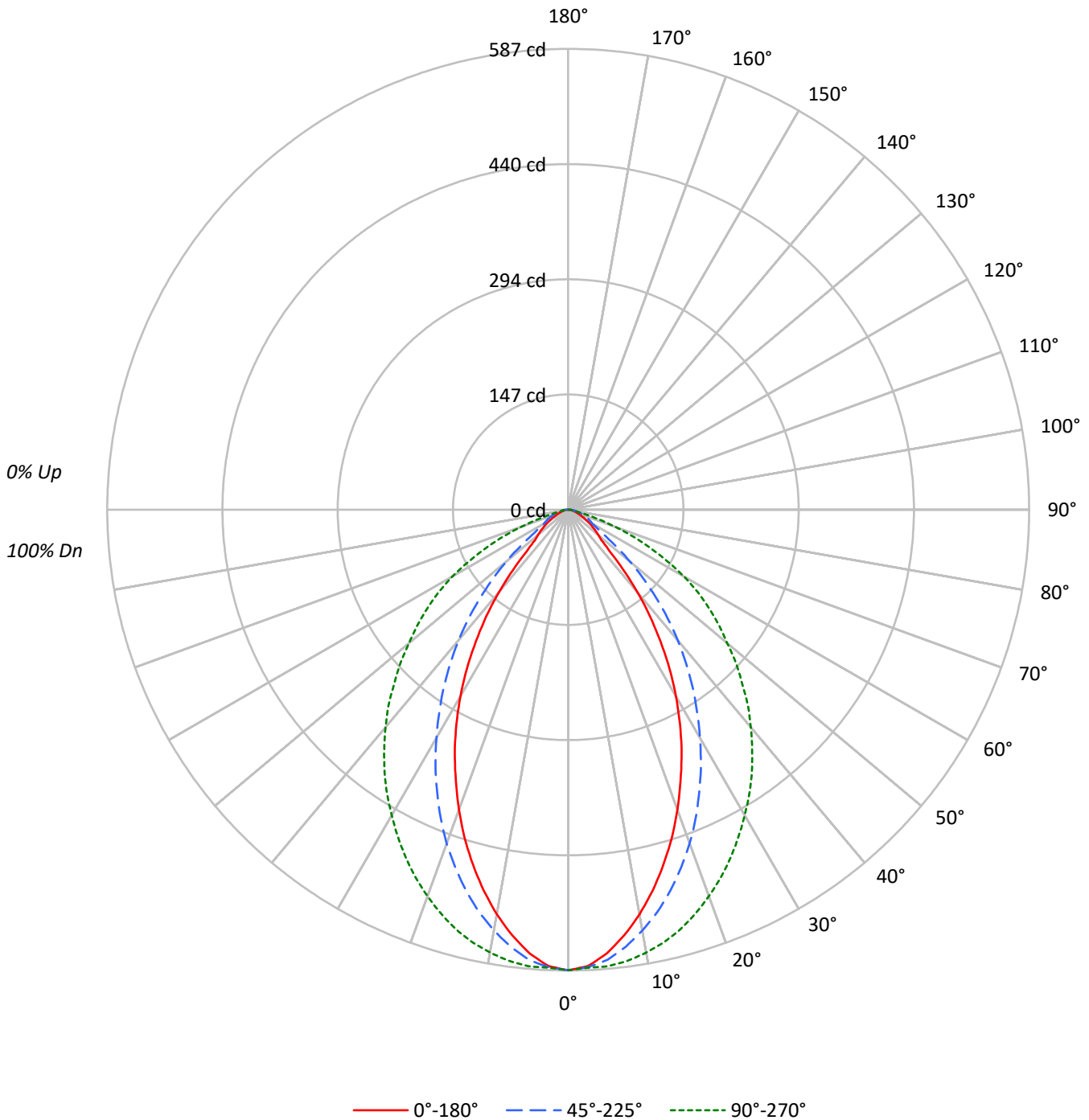
Lumens per Lamp: N/A
Luminaire Lumens: 847.0 lumens
Efficiency: N/A
Efficacy: 43.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4039	4039	4039
5°	3920	3978	4035
10°	3659	3804	4004
15°	3338	3581	3943
20°	2978	3314	3839
25°	2596	3002	3716
30°	2180	2667	3574
35°	1720	2322	3428
40°	1232	1951	3252
45°	725	1532	3049
50°	537	1103	2832
55°	451	669	2631
60°	364	489	2348
65°	283	464	1882
70°	238	435	1274
75°	221	388	556
80°	222	385	357
85°	276	498	387

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3049 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	6.4
10°-20°	142.0	16.8
20°-30°	185.6	21.9
30°-40°	180.6	21.3
40°-50°	135.0	15.9
50°-60°	83.7	9.9
60°-70°	44.0	5.2
70°-80°	16.0	1.9
80°-90°	6.1	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°	381.6	45.1
0°-40°	562.2	66.4
0°-60°	780.9	92.2
0°-90°	847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	587	587	587	587	587	
5°	567	575	576	579	584	53
15°	468	482	502	533	553	131
25°	342	359	395	449	489	156
35°	205	227	276	350	408	127
45°	74	97	157	246	313	63
55°	38	40	56	145	219	34
65°	17	19	28	61	116	18
75°	8	10	15	16	21	9
85°	4	6	6	6	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	586.6	586.6	586.6	586.6	586.6
2.5°	581.7	586.6	583.1	583.1	583.8
5°	567.1	574.8	575.5	578.9	583.8
7.5°	546.9	556.0	561.5	572.0	579.6
10°	523.3	533.7	544.1	561.5	572.7
12.5°	496.8	509.3	524.7	548.3	564.3
15°	468.3	482.2	502.4	533.0	553.2
17.5°	438.4	453.0	478.0	514.9	539.3
20°	406.4	422.4	452.3	494.0	524.0
22.5°	373.7	391.8	424.5	471.8	507.3
25°	341.7	359.0	395.2	448.8	489.2
27.5°	308.3	326.3	366.0	425.2	469.7
30°	274.2	293.6	335.4	400.8	449.5
32.5°	240.1	260.2	305.5	375.7	429.3
35°	204.6	226.8	276.2	350.0	407.8
37.5°	171.2	194.8	246.3	323.6	384.8
40°	137.1	161.4	217.1	297.8	361.8
42.5°	103.7	128.7	187.2	271.4	338.9
45°	74.5	97.4	157.3	245.6	313.1
47.5°	57.1	70.3	129.4	219.2	290.2
50°	50.1	54.3	103.0	193.4	264.4
52.5°	43.8	46.6	76.5	168.4	242.1
55°	37.6	39.7	55.7	144.7	219.2
57.5°	32.0	34.1	42.4	123.2	195.5
60°	26.4	28.5	35.5	101.6	170.5
62.5°	22.3	23.0	32.0	81.4	142.6
65°	17.4	18.8	28.5	61.2	115.5
67.5°	14.6	15.3	25.0	43.8	89.1
70°	11.8	12.5	21.6	30.6	63.3
72.5°	10.4	10.4	18.1	22.3	40.4
75°	8.3	9.7	14.6	16.0	20.9
77.5°	7.0	9.7	12.5	11.8	11.1
80°	5.6	9.0	9.7	9.7	9.0
82.5°	4.9	7.7	8.3	7.7	7.0
85°	3.5	6.3	6.3	6.3	4.9
87.5°	2.8	5.6	4.9	4.9	3.5
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	4.64	5.99	5.00	6.30	6.61	14.34	15.69	14.71	16.00	16.32
	3H	5.47	6.67	5.85	7.00	7.37	15.25	16.45	15.63	16.78	17.15
	4H	5.83	6.95	6.23	7.30	7.68	15.35	16.47	15.75	16.82	17.20
	6H	6.21	7.23	6.62	7.60	8.00	15.34	16.36	15.75	16.73	17.13
	8H	6.39	7.36	6.82	7.75	8.16	15.33	16.30	15.75	16.69	17.09
	12H	6.55	7.48	6.99	7.87	8.30	15.31	16.24	15.74	16.63	17.06
4H	2H	5.46	6.58	5.87	6.93	7.31	14.19	15.31	14.59	15.66	16.04
	3H	6.52	7.43	6.93	7.84	8.24	15.18	16.10	15.59	16.50	16.90
	4H	6.97	7.79	7.41	8.21	8.65	15.31	16.13	15.75	16.55	16.99
	6H	7.53	8.24	7.99	8.68	9.15	15.34	16.05	15.80	16.49	16.96
	8H	7.79	8.45	8.26	8.90	9.37	15.34	16.00	15.81	16.45	16.92
	12H	8.04	8.62	8.52	9.10	9.58	15.35	15.94	15.84	16.42	16.89
8H	4H	7.53	8.19	7.99	8.63	9.10	15.24	15.89	15.70	16.34	16.81
	6H	8.30	8.84	8.81	9.34	9.82	15.29	15.83	15.80	16.33	16.81
	8H	8.72	9.21	9.25	9.72	10.22	15.32	15.81	15.84	16.32	16.81
	12H	9.15	9.58	9.66	10.07	10.64	15.38	15.81	15.89	16.30	16.87
12H	4H	7.59	8.17	8.07	8.65	9.13	15.20	15.78	15.69	16.27	16.74
	6H	8.45	8.93	8.97	9.45	9.94	15.26	15.74	15.78	16.26	16.75
	8H	8.98	9.41	9.49	9.90	10.47	15.33	15.75	15.84	16.25	16.82