

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: P1061691

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-83)
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-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

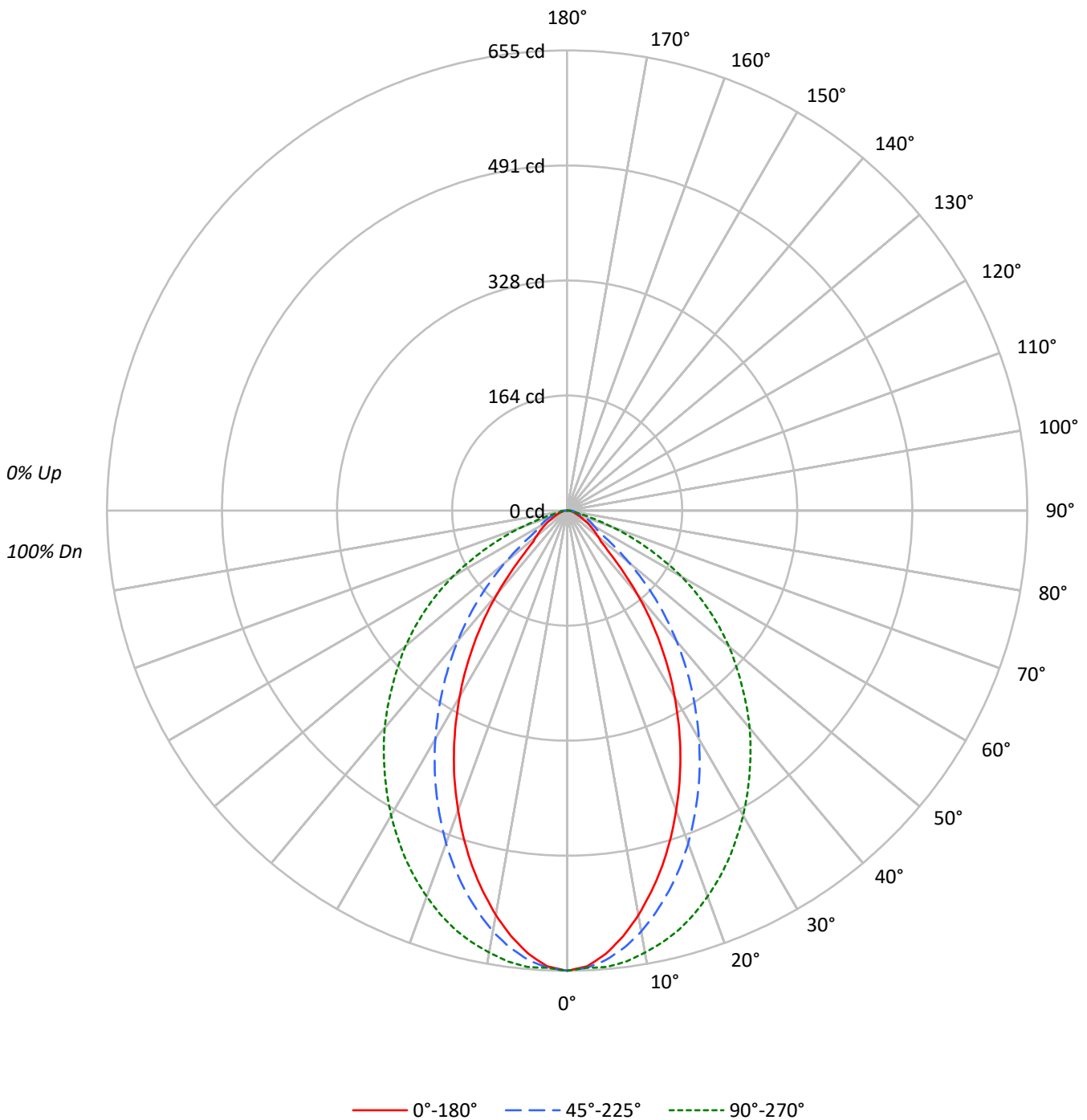
Lumens per Lamp: N/A
Luminaire Lumens: 948.6 lumens
Efficiency: N/A
Efficacy: 48.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	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	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	40	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4509	4509	4509
5°	4377	4435	4507
10°	4087	4253	4467
15°	3731	3993	4400
20°	3325	3692	4283
25°	2898	3352	4145
30°	2434	2982	3984
35°	1937	2591	3808
40°	1395	2177	3634
45°	827	1728	3423
50°	612	1230	3220
55°	517	760	2949
60°	421	613	2597
65°	329	567	2053
70°	280	491	1373
75°	258	426	556
80°	278	440	385
85°	332	664	442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3423 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	6.4
10°-20°	158.5	16.7
20°-30°	207.2	21.8
30°-40°	201.8	21.3
40°-50°	151.4	16.0
50°-60°	94.9	10.0
60°-70°	49.4	5.2
70°-80°	17.9	1.9
80°-90°	7.1	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°	426.1	44.9
0°-40°	627.9	66.2
0°-60°	874.2	92.2
0°-90°	948.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	948.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	633	642	642	646	652	59
15°	523	539	560	595	617	146
25°	381	402	441	501	546	174
35°	230	255	308	390	453	143
45°	85	110	178	274	352	71
55°	43	45	63	166	246	38
65°	20	22	35	67	126	21
75°	10	13	16	17	21	11
85°	4	7	8	8	6	4
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	654.9	654.9	654.9	654.9	654.9
2.5°	649.3	655.6	651.4	651.4	651.4
5°	633.3	641.7	641.7	646.5	652.1
7.5°	611.0	620.8	627.0	638.9	647.2
10°	584.6	596.4	608.3	627.7	638.9
12.5°	554.7	568.6	585.3	612.4	629.1
15°	523.4	538.7	560.2	595.0	617.3
17.5°	489.2	507.3	533.1	574.9	602.0
20°	453.8	471.9	503.9	551.2	584.6
22.5°	418.3	437.7	472.5	526.1	565.8
25°	381.4	402.3	441.2	501.1	545.6
27.5°	343.8	365.4	408.5	475.3	523.4
30°	306.2	328.5	375.1	447.5	501.1
32.5°	268.6	292.3	341.7	419.0	477.4
35°	230.4	254.7	308.3	390.4	453.1
37.5°	193.5	217.8	274.9	361.2	428.7
40°	155.2	181.6	242.2	332.0	404.3
42.5°	117.6	144.8	209.5	302.7	377.9
45°	84.9	110.0	177.5	274.2	351.5
47.5°	65.4	79.3	144.8	245.0	325.7
50°	57.1	61.2	114.8	217.8	300.6
52.5°	49.4	52.2	86.3	192.8	273.5
55°	43.1	45.2	63.3	165.6	245.7
57.5°	36.2	39.0	50.1	139.2	217.1
60°	30.6	32.0	44.5	114.8	188.6
62.5°	25.1	26.4	39.7	90.5	156.6
65°	20.2	21.6	34.8	66.8	126.0
67.5°	16.7	17.4	29.2	47.3	96.7
70°	13.9	14.6	24.4	32.7	68.2
72.5°	11.8	13.9	19.5	23.7	43.1
75°	9.7	13.2	16.0	16.7	20.9
77.5°	8.4	12.5	13.2	13.2	11.8
80°	7.0	10.4	11.1	10.4	9.7
82.5°	5.6	8.4	9.0	9.0	7.7
85°	4.2	7.0	8.4	7.7	5.6
87.5°	2.8	6.3	7.0	6.3	4.2
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	5.15	6.51	5.52	6.82	7.13	14.76	16.11	15.13	16.43	16.74
	3H	6.01	7.21	6.39	7.54	7.90	15.60	16.80	15.98	17.13	17.50
	4H	6.43	7.55	6.83	7.90	8.28	15.68	16.80	16.08	17.15	17.53
	6H	6.86	7.89	7.28	8.26	8.65	15.66	16.69	16.07	17.06	17.45
	8H	7.04	8.02	7.47	8.41	8.81	15.65	16.62	16.08	17.01	17.42
	12H	7.21	8.14	7.64	8.52	8.95	15.64	16.57	16.07	16.95	17.38
4H	2H	6.12	7.24	6.52	7.59	7.97	14.63	15.75	15.03	16.10	16.48
	3H	7.17	8.08	7.58	8.49	8.89	15.54	16.45	15.95	16.86	17.26
	4H	7.73	8.55	8.16	8.97	9.41	15.64	16.46	16.07	16.88	17.32
	6H	8.33	9.04	8.79	9.48	9.95	15.67	16.37	16.13	16.82	17.28
	8H	8.57	9.23	9.04	9.68	10.15	15.67	16.33	16.13	16.77	17.24
	12H	8.80	9.38	9.28	9.86	10.34	15.68	16.26	16.16	16.75	17.22
8H	4H	8.20	8.86	8.67	9.31	9.78	15.56	16.22	16.03	16.67	17.14
	6H	9.01	9.55	9.51	10.05	10.53	15.62	16.16	16.12	16.65	17.13
	8H	9.39	9.88	9.91	10.39	10.89	15.65	16.14	16.17	16.65	17.14
	12H	9.79	10.22	10.30	10.71	11.28	15.71	16.14	16.23	16.64	17.21
12H	4H	8.25	8.83	8.73	9.32	9.79	15.53	16.11	16.02	16.60	17.07
	6H	9.13	9.62	9.65	10.13	10.62	15.58	16.07	16.10	16.58	17.08
	8H	9.62	10.05	10.14	10.55	11.12	15.65	16.08	16.17	16.58	17.15