

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: P1061756

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S610D950-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

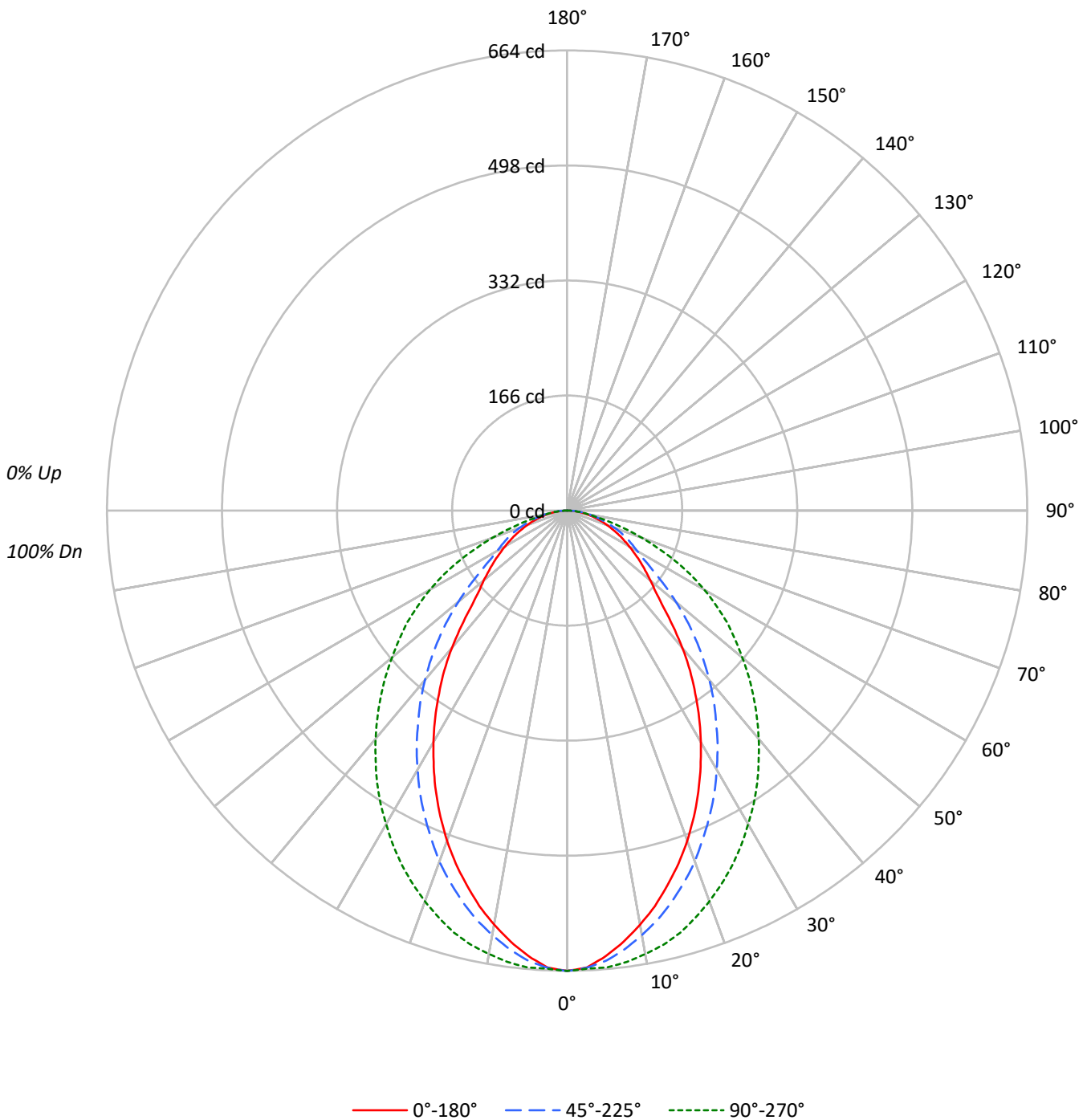
Lumens per Lamp: N/A
Luminaire Lumens: 1245.4 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88					86				
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76					74				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58					56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46					44				
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42					40				
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38					36				
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35					33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4574	4574	4574
5°	4459	4504	4573
10°	4241	4348	4542
15°	3988	4163	4494
20°	3715	3949	4396
25°	3403	3696	4285
30°	3066	3430	4152
35°	2711	3152	4022
40°	2326	2869	3866
45°	1900	2552	3703
50°	1685	2189	3533
55°	1546	1816	3386
60°	1425	1608	3153
65°	1329	1546	2812
70°	1242	1470	2299
75°	1147	1378	1695
80°	1078	1289	1237
85°	995	1256	1051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3703 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	4.9
10°-20°	165.6	13.3
20°-30°	227.6	18.3
30°-40°	241.2	19.4
40°-50°	210.5	16.9
50°-60°	160.0	12.8
60°-70°	107.2	8.6
70°-80°	55.3	4.4
80°-90°	16.6	1.3
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°	454.7	36.5
0°-40°	695.9	55.9
0°-60°	1066.4	85.6
0°-90°	1245.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1245.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	645	652	652	656	662	60
15°	560	570	584	610	630	157
25°	448	462	486	527	564	205
35°	322	341	375	428	478	201
45°	195	214	262	324	380	154
55°	129	133	151	222	282	115
65°	82	84	95	127	173	81
75°	43	46	52	55	64	46
85°	13	16	16	15	13	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.3	664.3	664.3	664.3	664.3
2.5°	659.7	664.3	660.3	660.3	661.7
5°	645.1	651.7	651.7	656.4	661.7
7.5°	627.2	634.5	638.4	649.1	657.0
10°	606.6	614.6	621.9	637.8	649.7
12.5°	584.7	593.3	604.6	625.2	641.8
15°	559.5	570.1	584.0	609.9	630.5
17.5°	534.2	544.9	562.1	592.7	615.9
20°	507.0	518.3	538.9	572.1	600.0
22.5°	477.8	490.4	512.3	550.2	582.7
25°	448.0	461.9	486.5	526.9	564.1
27.5°	416.8	433.4	459.9	503.1	544.2
30°	385.6	402.2	431.4	478.5	522.3
32.5°	354.4	372.3	404.2	453.9	501.1
35°	322.5	341.1	375.0	428.1	478.5
37.5°	291.3	309.9	347.8	402.8	453.9
40°	258.8	278.1	319.2	377.0	430.1
42.5°	225.6	246.2	290.7	350.4	405.5
45°	195.1	214.4	262.1	324.5	380.3
47.5°	172.6	185.2	233.6	298.0	355.7
50°	157.3	163.9	204.4	272.1	329.8
52.5°	142.0	147.3	177.2	245.6	305.3
55°	128.8	132.7	151.3	222.3	282.1
57.5°	115.5	119.5	131.4	199.1	254.8
60°	103.5	106.8	116.8	174.5	229.0
62.5°	92.2	94.9	105.5	151.3	201.1
65°	81.6	83.6	94.9	126.8	172.6
67.5°	71.0	73.0	84.3	103.5	142.0
70°	61.7	62.4	73.0	84.3	114.2
72.5°	52.4	53.1	61.7	68.4	87.6
75°	43.1	45.8	51.8	55.1	63.7
77.5°	35.2	38.5	41.8	43.1	43.1
80°	27.2	31.2	32.5	32.5	31.2
82.5°	19.9	23.2	23.9	22.6	21.2
85°	12.6	15.9	15.9	14.6	13.3
87.5°	6.0	8.6	8.6	8.0	6.0
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	11.89	13.39	12.26	13.70	14.02	15.82	17.31	16.18	17.63	17.94
	3H	13.46	14.80	13.84	15.13	15.49	17.24	18.58	17.62	18.91	19.27
	4H	14.07	15.33	14.47	15.68	16.06	17.65	18.91	18.05	19.26	19.64
	6H	14.57	15.73	14.98	16.10	16.49	17.87	19.03	18.28	19.40	19.79
	8H	14.74	15.85	15.17	16.24	16.64	17.93	19.03	18.36	19.42	19.83
	12H	14.87	15.92	15.30	16.31	16.74	17.96	19.02	18.39	19.40	19.83
4H	2H	12.63	13.89	13.03	14.24	14.61	15.94	17.20	16.34	17.55	17.93
	3H	14.41	15.45	14.82	15.85	16.25	17.55	18.60	17.96	19.00	19.40
	4H	15.14	16.08	15.57	16.50	16.94	18.08	19.02	18.51	19.44	19.88
	6H	15.78	16.60	16.23	17.04	17.50	18.42	19.24	18.88	19.68	20.14
	8H	16.01	16.77	16.47	17.21	17.68	18.52	19.29	18.98	19.73	20.20
	12H	16.18	16.86	16.66	17.34	17.81	18.59	19.28	19.08	19.76	20.23
8H	4H	15.54	16.31	16.01	16.75	17.22	18.19	18.95	18.65	19.40	19.86
	6H	16.33	16.96	16.83	17.45	17.93	18.62	19.26	19.12	19.75	20.23
	8H	16.65	17.22	17.17	17.73	18.22	18.78	19.35	19.30	19.86	20.35
	12H	16.93	17.43	17.44	17.92	18.48	18.92	19.42	19.43	19.91	20.48
12H	4H	15.59	16.27	16.07	16.75	17.22	18.19	18.87	18.67	19.35	19.82
	6H	16.41	16.98	16.93	17.49	17.98	18.64	19.21	19.16	19.72	20.21
	8H	16.81	17.31	17.32	17.80	18.36	18.85	19.35	19.36	19.84	20.41