

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: P1061711

Luminaire Tested: S125RDRP-S610D850-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061711
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-S610D850-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, 80 CRI LEDS
Ballast/Driver: -

Summary

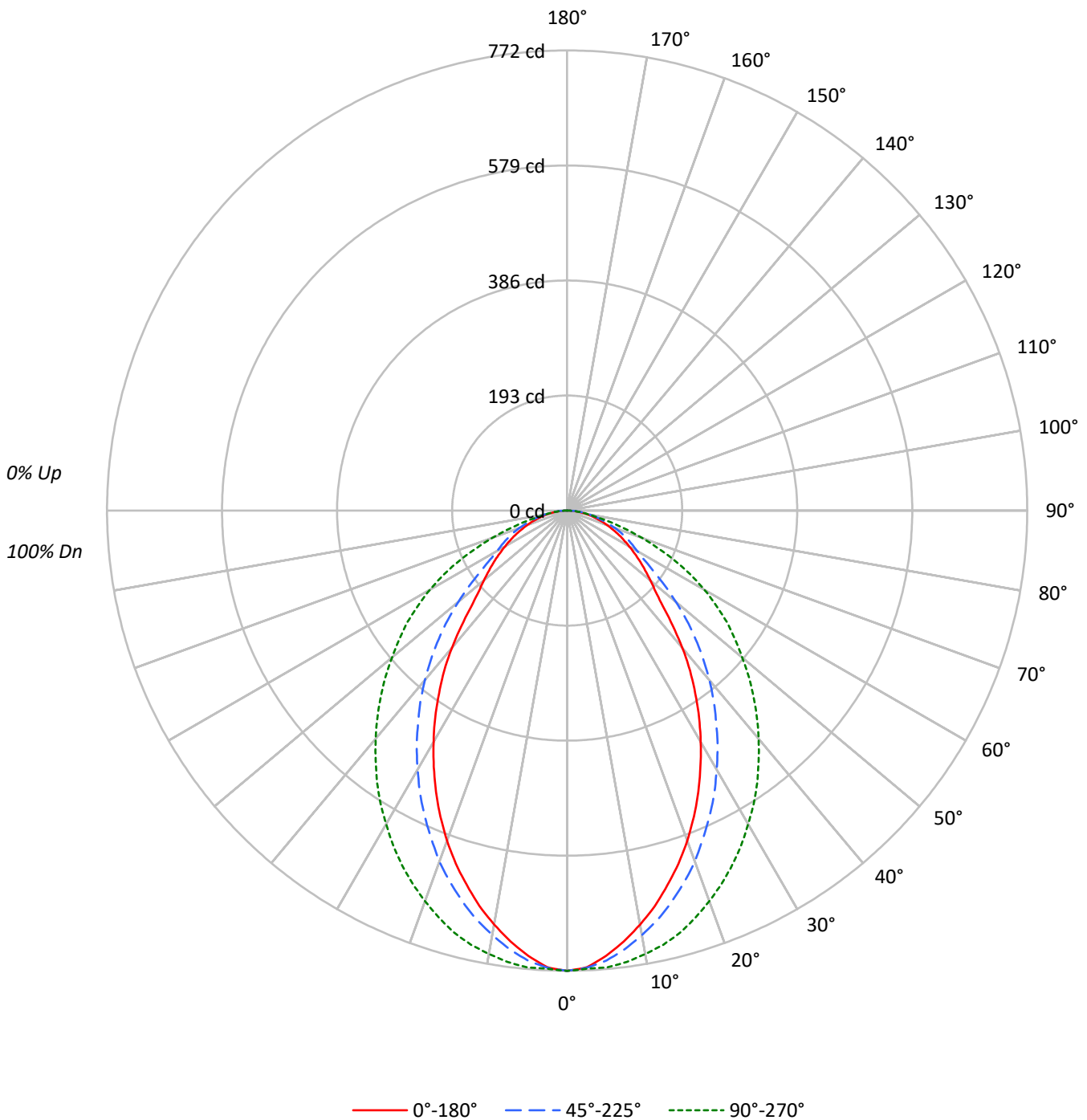
Lumens per Lamp: N/A
Luminaire Lumens: 1447.7 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	5317	5317	5317
5°	5183	5236	5316
10°	4930	5054	5281
15°	4636	4839	5224
20°	4319	4590	5110
25°	3957	4296	4982
30°	3563	3987	4827
35°	3151	3664	4675
40°	2705	3335	4493
45°	2208	2967	4305
50°	1958	2545	4107
55°	1797	2112	3936
60°	1658	1870	3666
65°	1546	1797	3268
70°	1443	1709	2671
75°	1333	1601	1971
80°	1253	1499	1439
85°	1161	1461	1217

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4305 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	4.9
10°-20°	192.5	13.3
20°-30°	264.6	18.3
30°-40°	280.4	19.4
40°-50°	244.8	16.9
50°-60°	186.0	12.8
60°-70°	124.6	8.6
70°-80°	64.2	4.4
80°-90°	19.3	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°	528.5	36.5
0°-40°	808.9	55.9
0°-60°	1239.6	85.6
0°-90°	1447.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	750	758	758	763	769	70
15°	650	663	679	709	733	182
25°	521	537	566	613	656	239
35°	375	396	436	498	556	234
45°	227	249	305	377	442	179
55°	150	154	176	258	328	134
65°	95	97	110	147	201	94
75°	50	53	60	64	74	54
85°	15	18	18	17	15	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.3	772.3	772.3	772.3	772.3
2.5°	766.9	772.3	767.6	767.6	769.2
5°	749.9	757.6	757.6	763.0	769.2
7.5°	729.1	737.5	742.2	754.5	763.8
10°	705.1	714.4	722.9	741.4	755.3
12.5°	679.7	689.7	702.8	726.7	746.0
15°	650.4	662.7	678.9	709.0	732.9
17.5°	621.1	633.4	653.5	688.9	715.9
20°	589.4	602.5	626.5	665.0	697.4
22.5°	555.5	570.1	595.6	639.6	677.4
25°	520.8	537.0	565.5	612.6	655.8
27.5°	484.5	503.8	534.6	584.8	632.6
30°	448.2	467.5	501.5	556.2	607.2
32.5°	412.0	432.8	469.8	527.7	582.5
35°	374.9	396.5	435.9	497.6	556.2
37.5°	338.7	360.3	404.3	468.3	527.7
40°	300.9	323.3	371.1	438.2	499.9
42.5°	262.3	286.2	337.9	407.3	471.4
45°	226.8	249.2	304.7	377.3	442.1
47.5°	200.6	215.2	271.6	346.4	413.5
50°	182.8	190.6	237.6	316.3	383.4
52.5°	165.1	171.3	206.0	285.5	354.9
55°	149.7	154.3	175.9	258.5	327.9
57.5°	134.2	138.9	152.8	231.4	296.3
60°	120.4	124.2	135.8	202.9	266.2
62.5°	107.2	110.3	122.7	175.9	233.8
65°	94.9	97.2	110.3	147.4	200.6
67.5°	82.5	84.9	98.0	120.4	165.1
70°	71.7	72.5	84.9	98.0	132.7
72.5°	60.9	61.7	71.7	79.5	101.8
75°	50.1	53.2	60.2	64.0	74.1
77.5°	40.9	44.7	48.6	50.1	50.1
80°	31.6	36.3	37.8	37.8	36.3
82.5°	23.1	27.0	27.8	26.2	24.7
85°	14.7	18.5	18.5	17.0	15.4
87.5°	6.9	10.0	10.0	9.3	6.9
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	12.41	13.91	12.78	14.22	14.54	16.34	17.84	16.70	18.15	18.46
	3H	13.98	15.33	14.36	15.65	16.02	17.76	19.10	18.14	19.43	19.79
	4H	14.60	15.85	15.00	16.20	16.58	18.18	19.44	18.58	19.78	20.16
	6H	15.09	16.25	15.50	16.62	17.01	18.39	19.56	18.81	19.92	20.31
	8H	15.26	16.37	15.69	16.76	17.16	18.45	19.56	18.88	19.95	20.35
	12H	15.39	16.45	15.82	16.83	17.26	18.49	19.55	18.92	19.93	20.36
4H	2H	13.15	14.41	13.55	14.76	15.14	16.47	17.72	16.87	18.07	18.45
	3H	14.93	15.97	15.34	16.37	16.77	18.08	19.12	18.49	19.52	19.92
	4H	15.66	16.60	16.10	17.02	17.46	18.60	19.54	19.04	19.96	20.40
	6H	16.30	17.12	16.76	17.56	18.02	18.94	19.76	19.40	20.21	20.67
	8H	16.53	17.29	16.99	17.74	18.20	19.04	19.81	19.51	20.25	20.72
	12H	16.70	17.38	17.18	17.86	18.33	19.12	19.80	19.60	20.28	20.75
8H	4H	16.06	16.83	16.53	17.27	17.74	18.71	19.47	19.17	19.92	20.39
	6H	16.85	17.48	17.35	17.97	18.45	19.15	19.78	19.64	20.27	20.75
	8H	17.17	17.74	17.69	18.25	18.74	19.31	19.87	19.82	20.38	20.87
	12H	17.45	17.95	17.96	18.44	19.01	19.44	19.94	19.95	20.43	21.00
12H	4H	16.11	16.79	16.59	17.27	17.74	18.71	19.39	19.19	19.87	20.34
	6H	16.93	17.50	17.45	18.01	18.50	19.16	19.73	19.68	20.24	20.73
	8H	17.33	17.83	17.84	18.32	18.89	19.37	19.87	19.88	20.37	20.93