

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: P1061720

Luminaire Tested: S125RDRP-S610D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061720
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-S610D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

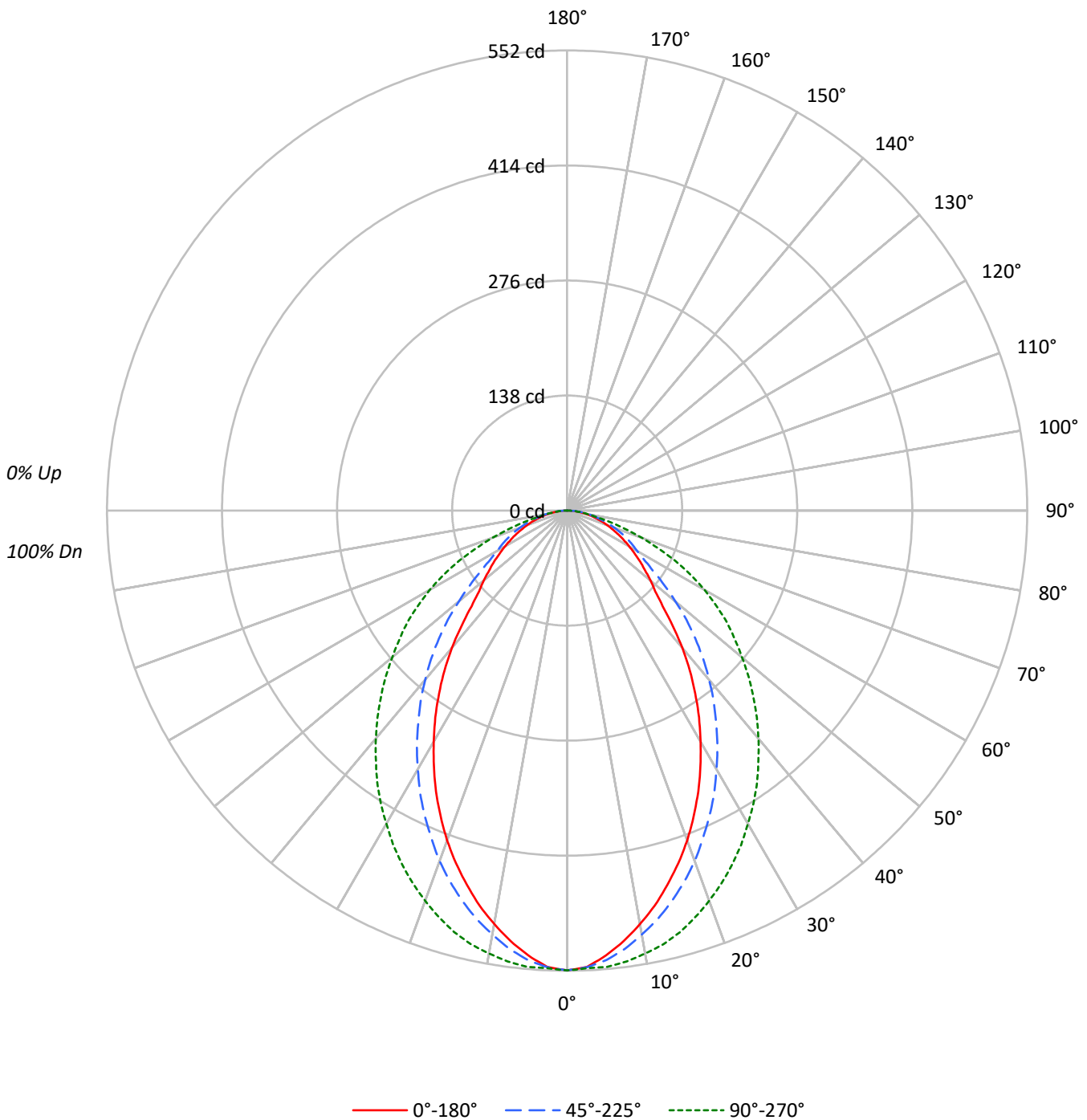
Lumens per Lamp: N/A
Luminaire Lumens: 1034.1 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3798	3798	3798
5°	3703	3741	3797
10°	3522	3610	3772
15°	3312	3457	3732
20°	3085	3279	3650
25°	2826	3069	3558
30°	2546	2848	3448
35°	2251	2617	3339
40°	1932	2383	3210
45°	1577	2120	3075
50°	1399	1818	2934
55°	1283	1508	2811
60°	1184	1336	2618
65°	1105	1284	2335
70°	1033	1220	1908
75°	952	1144	1407
80°	896	1071	1027
85°	829	1043	869

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3075 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	4.9
10°-20°	137.5	13.3
20°-30°	189.0	18.3
30°-40°	200.3	19.4
40°-50°	174.8	16.9
50°-60°	132.8	12.8
60°-70°	89.0	8.6
70°-80°	45.9	4.4
80°-90°	13.8	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°	377.6	36.5
0°-40°	577.8	55.9
0°-60°	885.5	85.6
0°-90°	1034.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1034.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	536	541	541	545	549	50
15°	465	473	485	506	524	130
25°	372	384	404	438	468	171
35°	268	283	311	356	397	167
45°	162	178	218	270	316	128
55°	107	110	126	185	234	96
65°	68	69	79	105	143	67
75°	36	38	43	46	53	38
85°	10	13	13	12	11	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	551.6	551.6	551.6	551.6	551.6
2.5°	547.8	551.6	548.3	548.3	549.4
5°	535.7	541.2	541.2	545.0	549.4
7.5°	520.8	526.8	530.2	539.0	545.6
10°	503.7	510.3	516.4	529.6	539.5
12.5°	485.5	492.7	502.0	519.1	532.9
15°	464.6	473.4	485.0	506.5	523.5
17.5°	443.6	452.4	466.8	492.1	511.4
20°	421.0	430.4	447.5	475.0	498.2
22.5°	396.8	407.3	425.4	456.9	483.9
25°	372.0	383.6	404.0	437.6	468.4
27.5°	346.1	359.9	381.9	417.7	451.9
30°	320.2	334.0	358.2	397.3	433.7
32.5°	294.3	309.2	335.6	376.9	416.1
35°	267.8	283.3	311.4	355.5	397.3
37.5°	241.9	257.4	288.8	334.5	376.9
40°	214.9	230.9	265.1	313.0	357.1
42.5°	187.4	204.5	241.4	291.0	336.7
45°	162.0	178.0	217.7	269.5	315.8
47.5°	143.3	153.8	194.0	247.4	295.4
50°	130.6	136.1	169.7	225.9	273.9
52.5°	117.9	122.3	147.1	203.9	253.5
55°	106.9	110.2	125.6	184.6	234.2
57.5°	95.9	99.2	109.1	165.3	211.6
60°	86.0	88.7	97.0	144.9	190.1
62.5°	76.6	78.8	87.6	125.6	167.0
65°	67.8	69.4	78.8	105.3	143.3
67.5°	59.0	60.6	70.0	86.0	117.9
70°	51.3	51.8	60.6	70.0	94.8
72.5°	43.5	44.1	51.3	56.8	72.7
75°	35.8	38.0	43.0	45.7	52.9
77.5°	29.2	32.0	34.7	35.8	35.8
80°	22.6	25.9	27.0	27.0	25.9
82.5°	16.5	19.3	19.8	18.7	17.6
85°	10.5	13.2	13.2	12.1	11.0
87.5°	5.0	7.2	7.2	6.6	5.0
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	11.24	12.74	11.61	13.05	13.37	15.17	16.67	15.54	16.98	17.29
	3H	12.82	14.16	13.19	14.49	14.85	16.59	17.93	16.97	18.26	18.63
	4H	13.43	14.69	13.83	15.04	15.41	17.01	18.27	17.41	18.61	18.99
	6H	13.92	15.09	14.34	15.45	15.84	17.22	18.39	17.64	18.75	19.15
	8H	14.10	15.20	14.52	15.59	15.99	17.28	18.39	17.71	18.78	19.18
	12H	14.22	15.28	14.65	15.66	16.09	17.32	18.38	17.75	18.76	19.19
4H	2H	11.98	13.24	12.38	13.59	13.97	15.30	16.56	15.70	16.90	17.28
	3H	13.76	14.80	14.17	15.21	15.61	16.91	17.95	17.32	18.35	18.75
	4H	14.49	15.44	14.93	15.85	16.29	17.43	18.37	17.87	18.79	19.23
	6H	15.13	15.95	15.59	16.39	16.85	17.78	18.59	18.23	19.04	19.50
	8H	15.36	16.12	15.82	16.57	17.04	17.87	18.64	18.34	19.08	19.55
	12H	15.53	16.22	16.02	16.69	17.17	17.95	18.63	18.43	19.11	19.58
8H	4H	14.90	15.66	15.36	16.10	16.57	17.54	18.30	18.00	18.75	19.22
	6H	15.68	16.31	16.18	16.81	17.28	17.98	18.61	18.48	19.10	19.58
	8H	16.01	16.57	16.52	17.08	17.57	18.14	18.70	18.65	19.21	19.70
	12H	16.28	16.78	16.79	17.27	17.84	18.27	18.77	18.78	19.26	19.83
12H	4H	14.94	15.62	15.42	16.10	16.57	17.54	18.22	18.02	18.70	19.17
	6H	15.76	16.33	16.28	16.84	17.33	17.99	18.56	18.51	19.07	19.56
	8H	16.16	16.66	16.67	17.15	17.72	18.20	18.70	18.71	19.20	19.76