

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: P1061717

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061717
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-S610D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

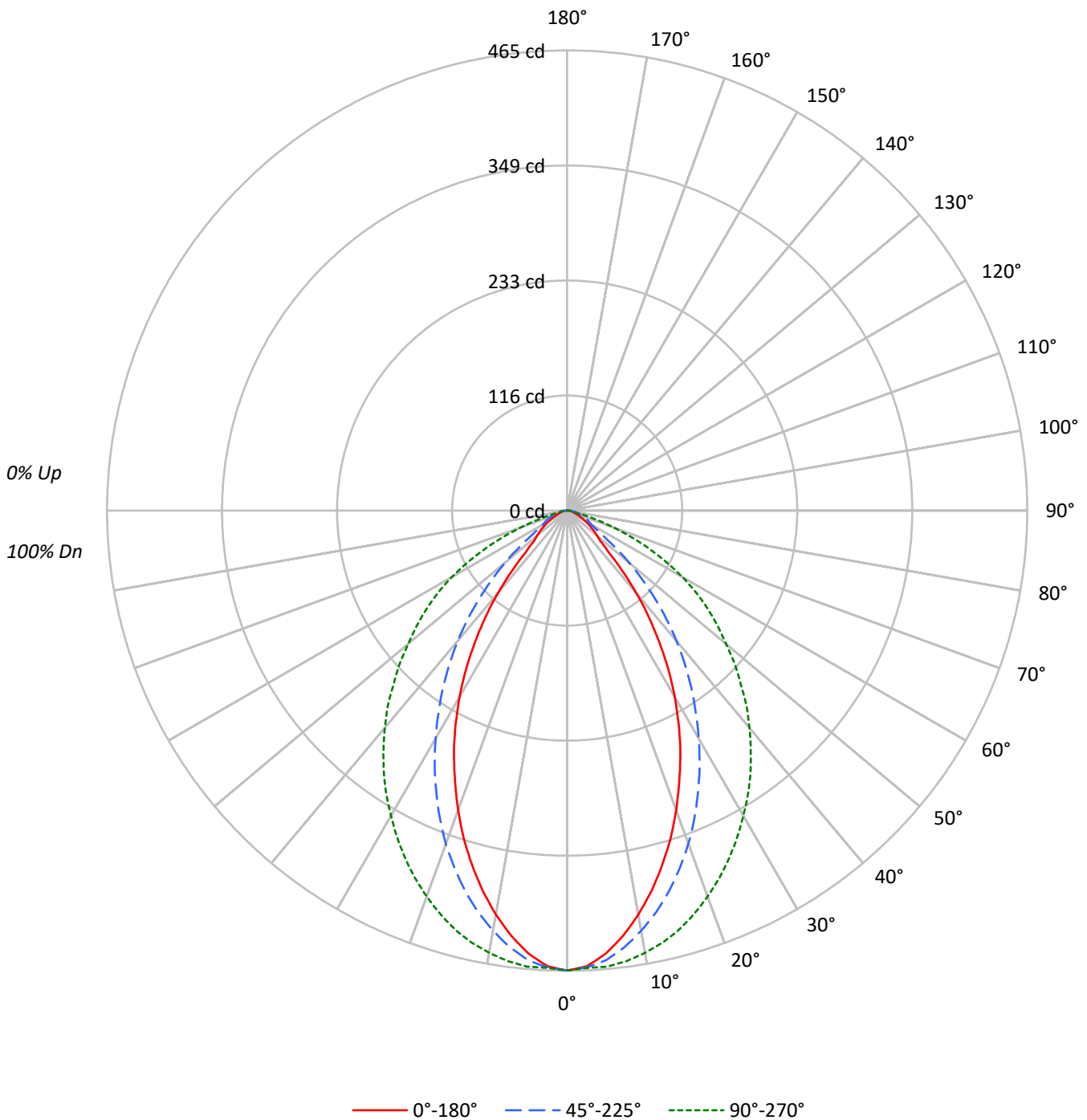
Lumens per Lamp: N/A
Luminaire Lumens: 671.0 lumens
Efficiency: N/A
Efficacy: 34.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	3200	3200	3200
5°	3105	3151	3197
10°	2898	3014	3172
15°	2645	2837	3124
20°	2359	2625	3041
25°	2057	2379	2944
30°	1727	2112	2831
35°	1363	1839	2715
40°	976	1546	2576
45°	574	1213	2416
50°	425	874	2244
55°	358	529	2084
60°	288	387	1859
65°	225	368	1491
70°	189	344	1011
75°	176	309	439
80°	174	305	285
85°	221	395	308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2416 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	6.4
10°-20°	112.5	16.8
20°-30°	147.0	21.9
30°-40°	143.1	21.3
40°-50°	106.9	15.9
50°-60°	66.3	9.9
60°-70°	34.8	5.2
70°-80°	12.7	1.9
80°-90°	4.8	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°	302.3	45.1
0°-40°	445.4	66.4
0°-60°	618.6	92.2
0°-90°	671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	449	455	456	459	462	42
15°	371	382	398	422	438	104
25°	271	284	313	356	388	124
35°	162	180	219	277	323	101
45°	59	77	125	195	248	50
55°	30	31	44	115	174	27
65°	14	15	23	48	92	14
75°	7	8	12	13	16	7
85°	3	5	5	5	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	464.7	464.7	464.7	464.7	464.7
2.5°	460.8	464.7	461.9	461.9	462.5
5°	449.2	455.3	455.9	458.6	462.5
7.5°	433.3	440.4	444.8	453.1	459.2
10°	414.5	422.8	431.1	444.8	453.7
12.5°	393.6	403.5	415.6	434.4	447.0
15°	371.0	382.0	398.0	422.2	438.2
17.5°	347.3	358.8	378.7	407.9	427.2
20°	321.9	334.6	358.3	391.4	415.1
22.5°	296.0	310.3	336.2	373.7	401.8
25°	270.7	284.4	313.1	355.5	387.5
27.5°	244.2	258.5	289.9	336.8	372.1
30°	217.2	232.6	265.7	317.5	356.1
32.5°	190.2	206.2	242.0	297.7	340.1
35°	162.1	179.7	218.8	277.3	323.0
37.5°	135.6	154.3	195.1	256.3	304.8
40°	108.6	127.9	172.0	235.9	286.6
42.5°	82.1	102.0	148.3	215.0	268.4
45°	59.0	77.2	124.6	194.6	248.1
47.5°	45.2	55.7	102.5	173.6	229.9
50°	39.7	43.0	81.6	153.2	209.5
52.5°	34.7	36.9	60.6	133.4	191.8
55°	29.8	31.4	44.1	114.7	173.6
57.5°	25.4	27.0	33.6	97.6	154.9
60°	20.9	22.6	28.1	80.5	135.0
62.5°	17.6	18.2	25.4	64.5	113.0
65°	13.8	14.9	22.6	48.5	91.5
67.5°	11.6	12.1	19.8	34.7	70.6
70°	9.4	9.9	17.1	24.3	50.2
72.5°	8.3	8.3	14.3	17.6	32.0
75°	6.6	7.7	11.6	12.7	16.5
77.5°	5.5	7.7	9.9	9.4	8.8
80°	4.4	7.2	7.7	7.7	7.2
82.5°	3.9	6.1	6.6	6.1	5.5
85°	2.8	5.0	5.0	5.0	3.9
87.5°	2.2	4.4	3.9	3.9	2.8
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	3.83	5.18	4.19	5.49	5.80	13.53	14.88	13.90	15.20	15.51
	3H	4.67	5.86	5.05	6.19	6.56	14.45	15.64	14.83	15.97	16.34
	4H	5.03	6.14	5.43	6.49	6.88	14.54	15.66	14.95	16.01	16.39
	6H	5.40	6.42	5.81	6.79	7.19	14.53	15.56	14.94	15.93	16.32
	8H	5.58	6.55	6.01	6.94	7.35	14.52	15.49	14.95	15.88	16.29
	12H	5.75	6.68	6.18	7.06	7.49	14.50	15.43	14.94	15.82	16.25
4H	2H	4.66	5.77	5.06	6.12	6.51	13.38	14.50	13.79	14.85	15.23
	3H	5.71	6.63	6.13	7.03	7.44	14.37	15.29	14.79	15.69	16.09
	4H	6.17	6.99	6.60	7.40	7.85	14.50	15.32	14.94	15.74	16.18
	6H	6.73	7.43	7.19	7.88	8.34	14.53	15.24	15.00	15.69	16.15
	8H	6.99	7.65	7.46	8.10	8.57	14.54	15.19	15.00	15.64	16.11
	12H	7.24	7.82	7.72	8.30	8.78	14.54	15.13	15.03	15.61	16.08
8H	4H	6.72	7.38	7.19	7.83	8.30	14.43	15.09	14.90	15.53	16.00
	6H	7.50	8.04	8.00	8.54	9.02	14.49	15.03	14.99	15.52	16.00
	8H	7.92	8.41	8.45	8.92	9.42	14.52	15.00	15.04	15.52	16.01
	12H	8.35	8.78	8.86	9.27	9.84	14.57	15.00	15.09	15.49	16.06
12H	4H	6.78	7.37	7.27	7.85	8.32	14.39	14.98	14.88	15.46	15.93
	6H	7.65	8.13	8.17	8.65	9.14	14.45	14.94	14.97	15.45	15.94
	8H	8.18	8.61	8.69	9.10	9.67	14.52	14.95	15.03	15.44	16.01