

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: P1061716

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
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-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

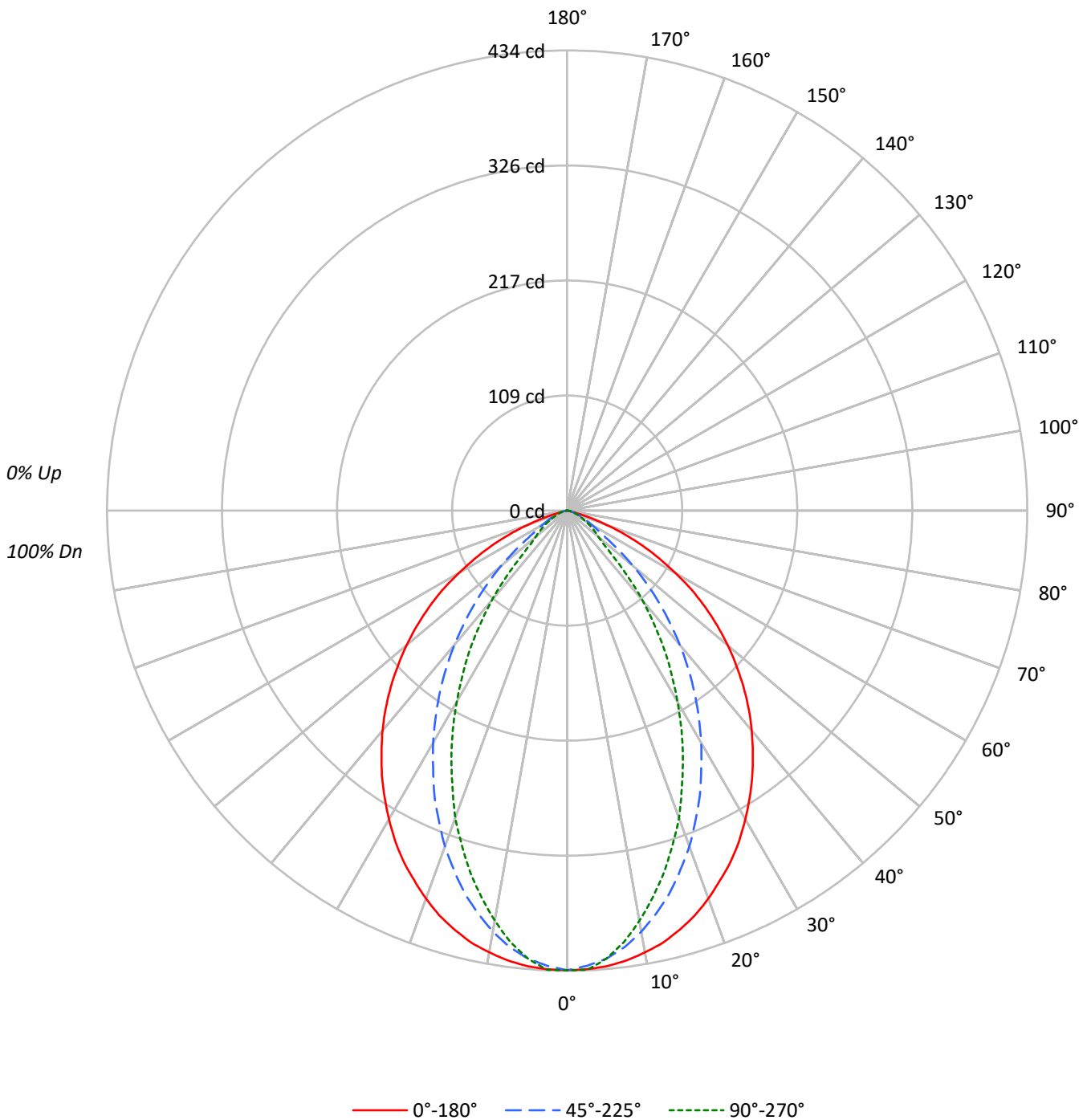
Lumens per Lamp: N/A
Luminaire Lumens: 627.0 lumens
Efficiency: N/A
Efficacy: 32.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2985	2985	2985
5°	2981	2932	2932
10°	2958	2819	2746
15°	2918	2662	2517
20°	2853	2470	2260
25°	2774	2252	1962
30°	2671	2010	1655
35°	2560	1759	1342
40°	2436	1486	995
45°	2290	1191	601
50°	2119	873	413
55°	1911	535	343
60°	1624	364	273
65°	1284	279	215
70°	809	199	177
75°	263	146	146
80°	87	111	131
85°	47	87	87

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2290 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	6.4
10°-20°	105.9	16.9
20°-30°	139.3	22.2
30°-40°	136.9	21.8
40°-50°	103.5	16.5
50°-60°	62.8	10.0
60°-70°	29.6	4.7
70°-80°	7.7	1.2
80°-90°	1.2	0.2
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°	285.3	45.5
0°-40°	422.1	67.3
0°-60°	588.4	93.9
0°-90°	627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	434	434	434	434	434	
5°	431	430	424	425	424	41
15°	409	398	374	359	353	115
25°	365	338	296	269	258	168
35°	305	264	209	172	160	190
45°	235	185	122	78	62	181
55°	159	109	45	30	29	142
65°	79	40	17	14	13	78
75°	10	7	6	6	6	15
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	433.5	433.5	433.5	433.5	433.5
2.5°	433.0	433.0	429.7	433.5	433.5
5°	431.3	430.2	424.2	424.7	424.2
7.5°	428.0	425.8	415.3	412.6	410.4
10°	423.1	418.6	403.2	396.6	392.8
12.5°	417.5	409.8	388.9	379.5	373.5
15°	409.3	398.3	373.5	359.2	353.1
17.5°	400.5	384.5	355.3	338.2	330.5
20°	389.4	370.7	337.1	316.2	308.5
22.5°	377.3	355.3	316.2	293.1	282.6
25°	365.2	337.7	296.4	268.8	258.3
27.5°	351.4	320.0	273.8	245.1	233.6
30°	336.0	302.4	252.8	223.1	208.2
32.5°	320.6	284.2	230.8	198.3	183.4
35°	304.6	263.9	209.3	172.4	159.7
37.5°	287.5	244.6	187.3	148.7	133.9
40°	271.0	225.3	165.3	124.5	110.7
42.5°	253.4	206.0	143.2	100.8	85.4
45°	235.2	185.1	122.3	77.7	61.7
47.5°	216.5	166.4	101.4	57.3	46.3
50°	197.8	146.5	81.5	42.4	38.6
52.5°	178.5	127.2	61.7	35.3	33.6
55°	159.2	109.1	44.6	30.3	28.6
57.5°	139.4	89.2	33.6	25.9	24.2
60°	117.9	71.6	26.4	21.5	19.8
62.5°	98.1	56.2	21.5	17.6	16.5
65°	78.8	40.2	17.1	14.3	13.2
67.5°	58.9	27.0	13.2	11.0	11.0
70°	40.2	17.6	9.9	8.8	8.8
72.5°	24.2	10.5	7.2	7.2	7.2
75°	9.9	6.6	5.5	5.5	5.5
77.5°	3.3	3.9	3.9	4.4	4.4
80°	2.2	2.2	2.8	3.3	3.3
82.5°	1.1	1.7	1.7	2.2	2.2
85°	0.6	0.6	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.6	0.6
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	13.13	14.46	13.49	14.77	15.09	3.78	5.12	4.15	5.43	5.74
	3H	13.83	15.01	14.21	15.34	15.70	4.56	5.74	4.94	6.07	6.43
	4H	13.85	14.94	14.25	15.30	15.68	4.81	5.91	5.22	6.26	6.64
	6H	13.78	14.78	14.19	15.16	15.55	4.99	6.00	5.41	6.37	6.76
	8H	13.74	14.69	14.17	15.08	15.49	5.04	5.99	5.47	6.38	6.78
	12H	13.70	14.61	14.13	14.99	15.42	5.04	5.95	5.48	6.34	6.77
4H	2H	12.96	14.05	13.36	14.40	14.79	4.27	5.37	4.68	5.72	6.10
	3H	13.70	14.60	14.12	15.00	15.40	5.18	6.07	5.59	6.47	6.88
	4H	13.72	14.52	14.16	14.94	15.38	5.49	6.29	5.93	6.71	7.15
	6H	13.66	14.34	14.12	14.79	15.26	5.75	6.44	6.21	6.88	7.35
	8H	13.61	14.25	14.08	14.69	15.17	5.82	6.45	6.29	6.90	7.37
	12H	13.57	14.13	14.05	14.61	15.09	5.84	6.40	6.33	6.89	7.36
8H	4H	13.60	14.24	14.07	14.69	15.16	5.61	6.24	6.08	6.69	7.16
	6H	13.53	14.05	14.03	14.55	15.03	5.92	6.44	6.43	6.94	7.42
	8H	13.48	13.94	14.00	14.46	14.95	6.03	6.49	6.55	7.01	7.50
	12H	13.44	13.85	13.95	14.34	14.91	6.09	6.50	6.61	7.00	7.57
12H	4H	13.56	14.12	14.05	14.61	15.08	5.58	6.14	6.06	6.62	7.10
	6H	13.47	13.94	13.99	14.45	14.95	5.90	6.36	6.42	6.88	7.37
	8H	13.44	13.85	13.95	14.34	14.92	6.03	6.45	6.55	6.94	7.51