

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: P1061725

Luminaire Tested: S125RDRP-S610D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061725  
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-S610D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

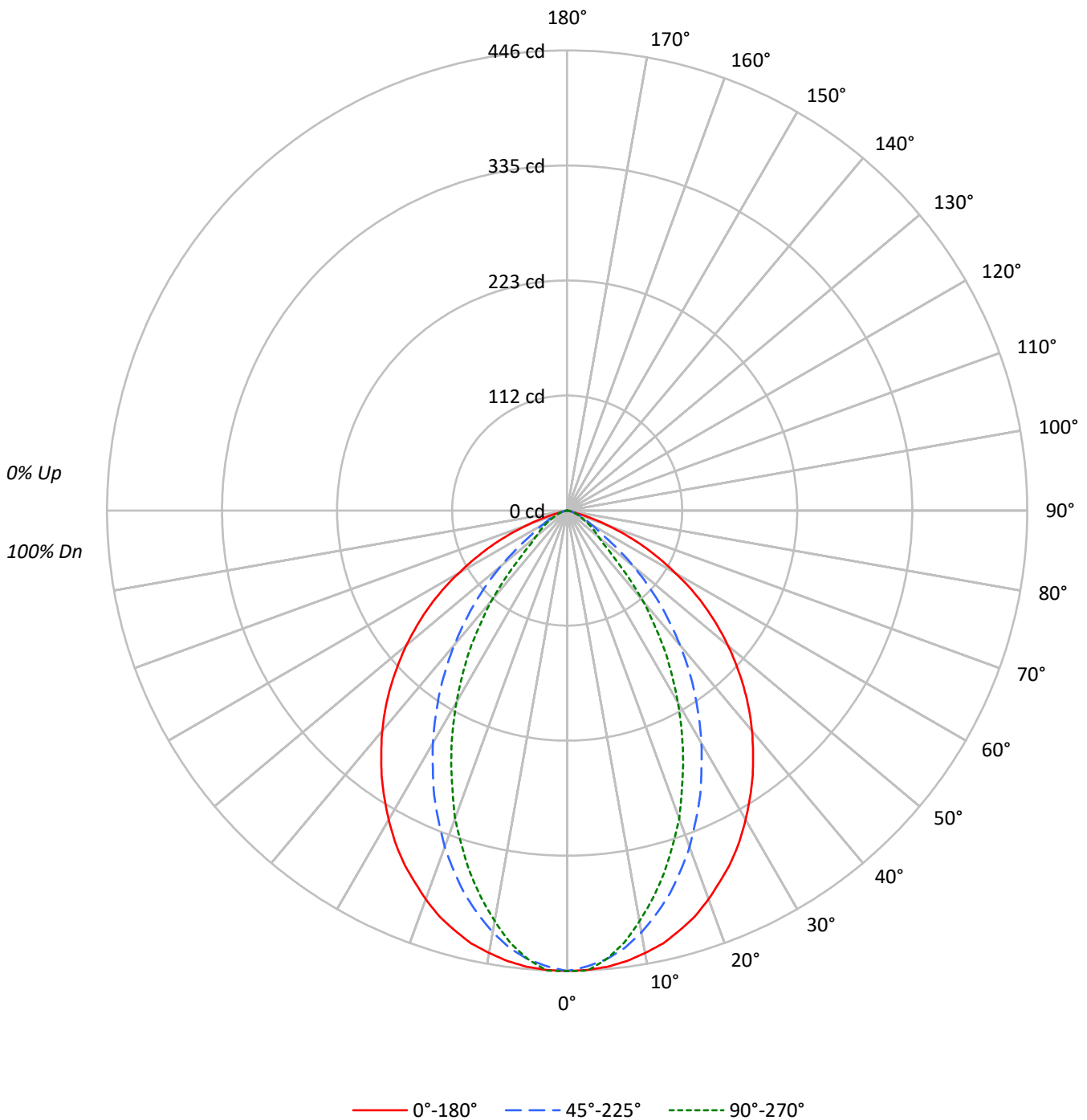
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 645.3 lumens  
Efficiency: N/A  
Efficacy: 32.9 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 (Ain): 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°	3072	3072	3072
5°	3068	3017	3017
10°	3044	2901	2826
15°	3002	2740	2590
20°	2937	2543	2326
25°	2856	2317	2020
30°	2749	2069	1704
35°	2635	1811	1382
40°	2507	1529	1025
45°	2357	1226	618
50°	2180	899	425
55°	1966	551	354
60°	1670	375	281
65°	1321	287	222
70°	833	205	183
75°	271	152	152
80°	91	111	135
85°	47	87	87

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2357 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.3	6.4
10°-20°	109.0	16.9
20°-30°	143.3	22.2
30°-40°	140.8	21.8
40°-50°	106.6	16.5
50°-60°	64.6	10.0
60°-70°	30.5	4.7
70°-80°	8.0	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°	293.6	45.5
0°-40°	434.4	67.3
0°-60°	605.6	93.9
0°-90°	645.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	645.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	446	446	446	446	446	
5°	444	443	436	437	436	42
15°	421	410	384	370	363	119
25°	376	348	305	277	266	173
35°	314	272	215	177	164	196
45°	242	190	126	80	64	186
55°	164	112	46	31	30	146
65°	81	41	18	15	14	80
75°	10	7	6	6	6	16
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°	446.2	446.2	446.2	446.2	446.2
2.5°	445.6	445.6	442.2	446.2	446.2
5°	443.9	442.8	436.5	437.1	436.5
7.5°	440.5	438.2	427.5	424.6	422.4
10°	435.4	430.9	415.0	408.2	404.2
12.5°	429.7	421.8	400.2	390.6	384.4
15°	421.2	409.9	384.4	369.6	363.4
17.5°	412.2	395.7	365.7	348.1	340.2
20°	400.8	381.5	347.0	325.4	317.5
22.5°	388.3	365.7	325.4	301.6	290.8
25°	375.9	347.5	305.0	276.7	265.9
27.5°	361.7	329.4	281.8	252.3	240.4
30°	345.8	311.2	260.2	229.6	214.3
32.5°	329.9	292.5	237.5	204.1	188.8
35°	313.5	271.6	215.4	177.4	164.4
37.5°	295.9	251.7	192.8	153.1	137.8
40°	278.9	231.9	170.1	128.1	114.0
42.5°	260.8	212.0	147.4	103.7	87.9
45°	242.1	190.5	125.9	79.9	63.5
47.5°	222.8	171.2	104.3	59.0	47.6
50°	203.5	150.8	83.9	43.7	39.7
52.5°	183.7	131.0	63.5	36.3	34.6
55°	163.8	112.3	45.9	31.2	29.5
57.5°	143.4	91.8	34.6	26.6	24.9
60°	121.3	73.7	27.2	22.1	20.4
62.5°	100.9	57.8	22.1	18.1	17.0
65°	81.1	41.4	17.6	14.7	13.6
67.5°	60.7	27.8	13.6	11.3	11.3
70°	41.4	18.1	10.2	9.1	9.1
72.5°	24.9	10.8	7.4	7.4	7.4
75°	10.2	6.8	5.7	5.7	5.7
77.5°	3.4	4.0	4.0	4.5	4.5
80°	2.3	2.3	2.8	3.4	3.4
82.5°	1.1	1.7	1.7	2.3	2.3
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	13.23	14.56	13.59	14.87	15.19	3.87	5.20	4.24	5.52	5.83
	3H	13.93	15.11	14.31	15.44	15.80	4.65	5.83	5.03	6.16	6.53
	4H	13.95	15.05	14.35	15.40	15.78	4.91	6.00	5.31	6.35	6.74
	6H	13.88	14.89	14.29	15.26	15.65	5.08	6.09	5.50	6.46	6.85
	8H	13.84	14.79	14.27	15.18	15.59	5.13	6.08	5.56	6.47	6.88
	12H	13.80	14.71	14.23	15.09	15.52	5.14	6.05	5.57	6.43	6.86
4H	2H	13.06	14.15	13.46	14.50	14.89	4.36	5.46	4.77	5.81	6.19
	3H	13.80	14.70	14.22	15.10	15.50	5.27	6.16	5.69	6.57	6.97
	4H	13.82	14.62	14.26	15.04	15.48	5.59	6.39	6.03	6.80	7.25
	6H	13.76	14.45	14.22	14.89	15.36	5.85	6.53	6.31	6.98	7.44
	8H	13.71	14.35	14.18	14.79	15.27	5.92	6.55	6.38	7.00	7.47
	12H	13.67	14.23	14.15	14.71	15.19	5.94	6.50	6.43	6.99	7.46
8H	4H	13.70	14.34	14.17	14.79	15.26	5.70	6.34	6.17	6.79	7.26
	6H	13.63	14.15	14.13	14.65	15.13	6.02	6.54	6.52	7.04	7.52
	8H	13.58	14.04	14.10	14.56	15.05	6.13	6.59	6.65	7.11	7.60
	12H	13.54	13.95	14.05	14.44	15.01	6.19	6.60	6.70	7.09	7.67
12H	4H	13.66	14.22	14.15	14.71	15.18	5.68	6.24	6.16	6.72	7.20
	6H	13.57	14.04	14.09	14.55	15.05	5.99	6.46	6.51	6.97	7.46
	8H	13.54	13.95	14.05	14.44	15.02	6.13	6.54	6.65	7.04	7.61