

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061968

Luminaire Tested: S125RDR-H1270D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061968  
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: S125RDR-H1270D930-X4F0-XX-UDD-SVL-B  
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

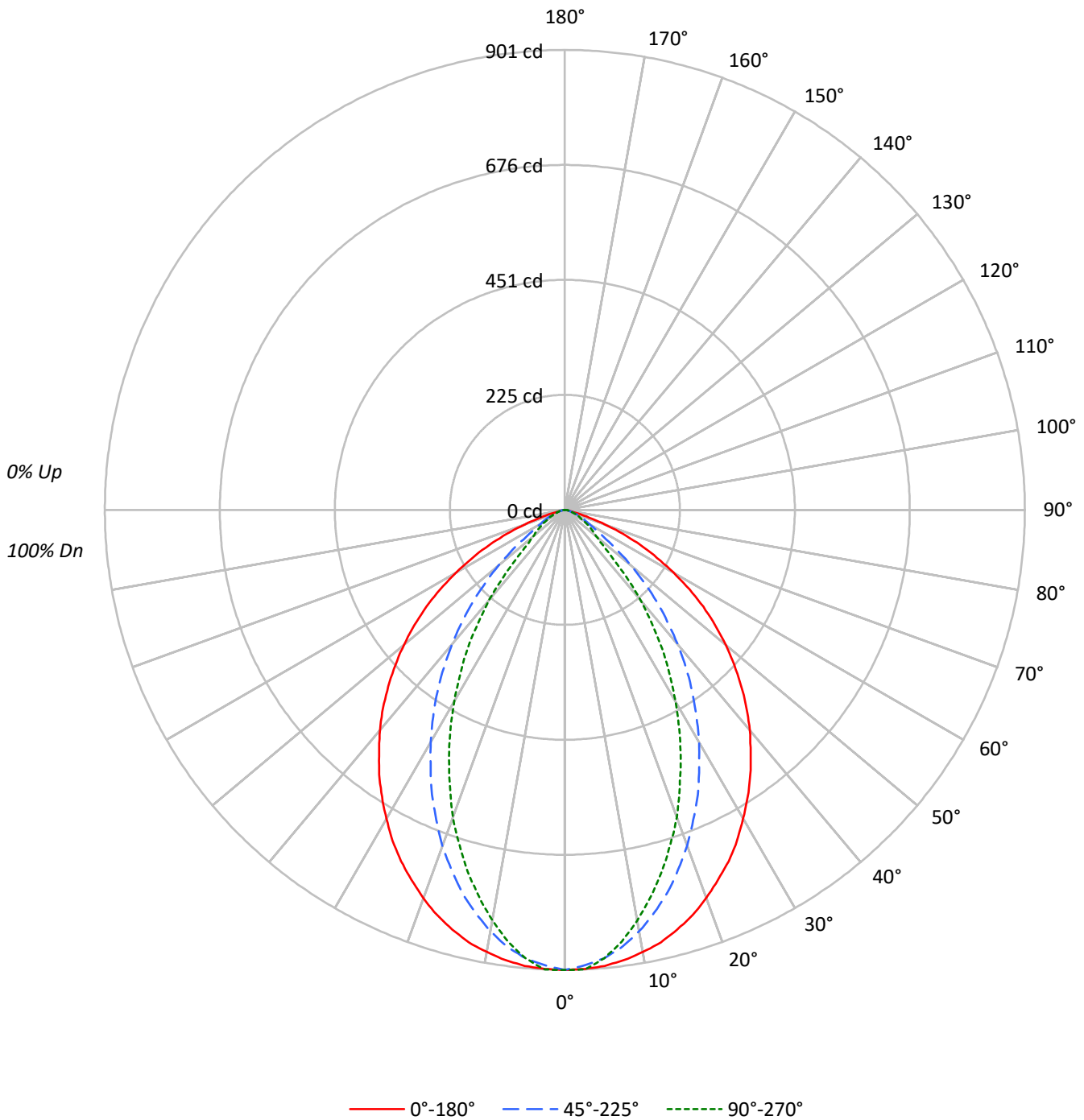
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1303.6 lumens  
Efficiency: N/A  
Efficacy: 35.7 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): 36.5  
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	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°	6206	6206	6206
5°	6198	6095	6095
10°	6150	5862	5709
15°	6066	5535	5233
20°	5933	5136	4700
25°	5768	4681	4080
30°	5554	4180	3442
35°	5324	3658	2791
40°	5065	3088	2069
45°	4761	2476	1249
50°	4405	1816	859
55°	3973	1114	715
60°	3375	757	567
65°	2669	578	448
70°	1683	415	368
75°	548	306	306
80°	182	226	274
85°	87	182	182

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4761 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.4	6.4
10°-20°	220.2	16.9
20°-30°	289.6	22.2
30°-40°	284.5	21.8
40°-50°	215.3	16.5
50°-60°	130.5	10.0
60°-70°	61.6	4.7
70°-80°	16.1	1.2
80°-90°	2.4	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°	593.1	45.5
0°-40°	877.6	67.3
0°-60°	1223.4	93.9
0°-90°	1303.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1303.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	897	894	882	883	882	85
15°	851	828	776	747	734	240
25°	759	702	616	559	537	349
35°	633	549	435	358	332	395
45°	489	385	254	162	128	377
55°	331	227	93	63	60	295
65°	164	84	36	30	28	161
75°	21	14	12	12	12	32
85°	1	1	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	901.4	901.4	901.4	901.4	901.4
2.5°	900.2	900.2	893.3	901.4	901.4
5°	896.8	894.5	881.9	883.0	881.9
7.5°	889.9	885.3	863.6	857.8	853.3
10°	879.6	870.4	838.4	824.6	816.6
12.5°	868.1	852.1	808.6	789.1	776.5
15°	851.0	828.1	776.5	746.7	734.1
17.5°	832.6	799.4	738.7	703.2	687.2
20°	809.7	770.8	700.9	657.4	641.4
22.5°	784.5	738.7	657.4	609.3	587.5
25°	759.3	702.1	616.2	558.9	537.1
27.5°	730.7	665.4	569.2	509.7	485.6
30°	698.6	628.8	525.7	463.8	432.9
32.5°	666.6	591.0	479.9	412.3	381.4
35°	633.4	548.6	435.2	358.5	332.1
37.5°	597.8	508.5	389.4	309.2	278.3
40°	563.5	468.4	343.6	258.8	230.2
42.5°	526.8	428.3	297.8	209.6	177.5
45°	489.0	384.8	254.3	161.5	128.3
47.5°	450.1	345.9	210.7	119.1	96.2
50°	411.2	304.7	169.5	88.2	80.2
52.5°	371.1	264.6	128.3	73.3	69.9
55°	331.0	226.8	92.8	63.0	59.6
57.5°	289.8	185.5	69.9	53.8	50.4
60°	245.1	148.9	55.0	44.7	41.2
62.5°	203.9	116.8	44.7	36.6	34.4
65°	163.8	83.6	35.5	29.8	27.5
67.5°	122.5	56.1	27.5	22.9	22.9
70°	83.6	36.6	20.6	18.3	18.3
72.5°	50.4	21.8	14.9	14.9	14.9
75°	20.6	13.7	11.5	11.5	11.5
77.5°	6.9	8.0	8.0	9.2	9.2
80°	4.6	4.6	5.7	6.9	6.9
82.5°	2.3	3.4	3.4	4.6	4.6
85°	1.1	1.1	2.3	2.3	2.3
87.5°	0.0	0.0	0.0	1.1	1.1
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	15.67	17.00	16.04	17.32	17.63	6.32	7.66	6.69	7.97	8.28
	3H	16.38	17.55	16.76	17.88	18.25	7.10	8.28	7.48	8.61	8.98
	4H	16.39	17.49	16.80	17.84	18.22	7.36	8.45	7.76	8.80	9.19
	6H	16.32	17.33	16.74	17.70	18.09	7.54	8.54	7.95	8.91	9.31
	8H	16.28	17.23	16.71	17.63	18.03	7.58	8.53	8.01	8.93	9.33
	12H	16.24	17.15	16.67	17.53	17.96	7.59	8.50	8.02	8.88	9.31
4H	2H	15.50	16.60	15.90	16.95	17.33	6.81	7.91	7.21	8.26	8.64
	3H	16.25	17.14	16.66	17.54	17.95	7.72	8.61	8.13	9.01	9.42
	4H	16.27	17.06	16.70	17.48	17.92	8.03	8.83	8.47	9.25	9.69
	6H	16.20	16.89	16.67	17.33	17.80	8.30	8.98	8.76	9.43	9.89
	8H	16.15	16.79	16.62	17.24	17.71	8.36	9.00	8.83	9.45	9.92
	12H	16.11	16.67	16.60	17.15	17.63	8.39	8.95	8.88	9.44	9.91
8H	4H	16.15	16.79	16.62	17.23	17.70	8.15	8.79	8.62	9.23	9.70
	6H	16.07	16.59	16.58	17.09	17.57	8.47	8.99	8.97	9.48	9.97
	8H	16.02	16.49	16.54	17.00	17.49	8.57	9.04	9.10	9.56	10.05
	12H	15.98	16.39	16.49	16.88	17.46	8.64	9.05	9.15	9.54	10.12
12H	4H	16.10	16.67	16.59	17.15	17.62	8.12	8.68	8.61	9.17	9.64
	6H	16.01	16.48	16.54	17.00	17.49	8.44	8.91	8.96	9.42	9.91
	8H	15.98	16.39	16.50	16.89	17.46	8.58	8.99	9.10	9.49	10.06