

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: P1061977

Luminaire Tested: S125RDR-H1270D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1061977  
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-H1270D935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

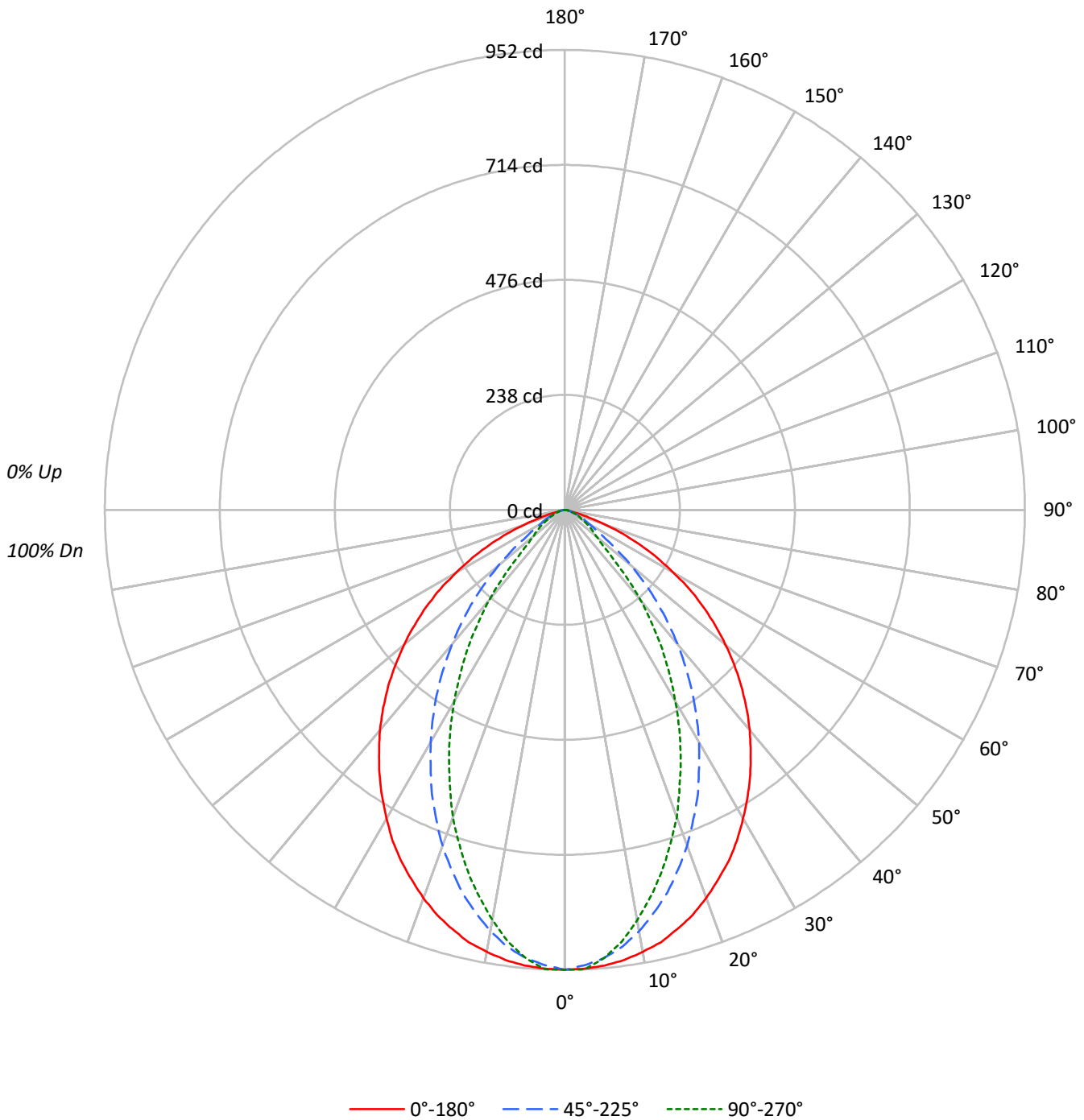
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1376.6 lumens  
Efficiency: N/A  
Efficacy: 37.7 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	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°	6554	6554	6554
5°	6545	6437	6437
10°	6494	6190	6029
15°	6406	5845	5526
20°	6265	5424	4963
25°	6092	4943	4310
30°	5866	4414	3635
35°	5622	3863	2949
40°	5349	3261	2185
45°	5029	2614	1319
50°	4651	1917	907
55°	4195	1176	755
60°	3564	800	599
65°	2818	611	472
70°	1778	439	391
75°	580	322	322
80°	190	238	289
85°	95	190	190

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5029 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	6.4
10°-20°	232.5	16.9
20°-30°	305.8	22.2
30°-40°	300.5	21.8
40°-50°	227.3	16.5
50°-60°	137.8	10.0
60°-70°	65.1	4.7
70°-80°	17.0	1.2
80°-90°	2.5	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°	626.3	45.5
0°-40°	926.8	67.3
0°-60°	1292.0	93.9
0°-90°	1376.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1376.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	947	945	931	932	931	90
15°	899	874	820	789	775	253
25°	802	741	651	590	567	369
35°	669	579	460	379	351	418
45°	516	406	268	170	136	398
55°	350	240	98	66	63	311
65°	173	88	38	31	29	170
75°	22	14	12	12	12	34
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°	951.9	951.9	951.9	951.9	951.9
2.5°	950.7	950.7	943.4	951.9	951.9
5°	947.0	944.6	931.3	932.5	931.3
7.5°	939.8	934.9	912.0	905.9	901.1
10°	928.9	919.2	885.4	870.8	862.4
12.5°	916.8	899.9	853.9	833.3	820.0
15°	898.7	874.5	820.0	788.6	775.3
17.5°	879.3	844.2	780.1	742.6	725.7
20°	855.1	814.0	740.2	694.3	677.3
22.5°	828.5	780.1	694.3	643.5	620.5
25°	801.9	741.4	650.7	590.2	567.3
27.5°	771.7	702.7	601.1	538.2	512.8
30°	737.8	664.0	555.2	489.8	457.2
32.5°	703.9	624.1	506.8	435.4	402.8
35°	668.9	579.4	459.6	378.6	350.8
37.5°	631.4	537.0	411.2	326.6	293.9
40°	595.1	494.7	362.8	273.3	243.1
42.5°	556.4	452.4	314.5	221.3	187.5
45°	516.5	406.4	268.5	170.5	135.5
47.5°	475.3	365.3	222.5	125.8	101.6
50°	434.2	321.7	179.0	93.1	84.7
52.5°	391.9	279.4	135.5	77.4	73.8
55°	349.5	239.5	98.0	66.5	62.9
57.5°	306.0	195.9	73.8	56.8	53.2
60°	258.8	157.2	58.1	47.2	43.5
62.5°	215.3	123.4	47.2	38.7	36.3
65°	173.0	88.3	37.5	31.4	29.0
67.5°	129.4	59.3	29.0	24.2	24.2
70°	88.3	38.7	21.8	19.4	19.4
72.5°	53.2	23.0	15.7	15.7	15.7
75°	21.8	14.5	12.1	12.1	12.1
77.5°	7.3	8.5	8.5	9.7	9.7
80°	4.8	4.8	6.0	7.3	7.3
82.5°	2.4	3.6	3.6	4.8	4.8
85°	1.2	1.2	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	1.2	1.2
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	15.86	17.19	16.23	17.50	17.82	6.51	7.84	6.88	8.16	8.47
	3H	16.57	17.74	16.95	18.07	18.44	7.30	8.47	7.68	8.80	9.17
	4H	16.58	17.68	16.99	18.03	18.41	7.55	8.64	7.95	8.99	9.37
	6H	16.51	17.52	16.93	17.89	18.28	7.73	8.73	8.14	9.10	9.50
	8H	16.47	17.42	16.90	17.82	18.22	7.77	8.72	8.20	9.11	9.52
	12H	16.43	17.34	16.86	17.72	18.15	7.78	8.69	8.21	9.07	9.50
4H	2H	15.69	16.79	16.09	17.14	17.52	7.00	8.10	7.40	8.45	8.83
	3H	16.44	17.33	16.85	17.73	18.14	7.91	8.80	8.32	9.21	9.61
	4H	16.46	17.25	16.89	17.67	18.11	8.22	9.02	8.66	9.44	9.88
	6H	16.39	17.08	16.86	17.52	17.99	8.49	9.17	8.95	9.62	10.08
	8H	16.34	16.98	16.81	17.43	17.90	8.55	9.19	9.02	9.64	10.11
	12H	16.30	16.86	16.79	17.34	17.82	8.58	9.14	9.06	9.62	10.10
8H	4H	16.34	16.98	16.81	17.42	17.89	8.34	8.97	8.81	9.42	9.89
	6H	16.26	16.78	16.77	17.28	17.76	8.66	9.18	9.16	9.67	10.16
	8H	16.21	16.68	16.73	17.19	17.68	8.76	9.23	9.28	9.74	10.24
	12H	16.17	16.58	16.68	17.07	17.65	8.82	9.23	9.34	9.73	10.30
12H	4H	16.29	16.86	16.78	17.34	17.81	8.31	8.87	8.79	9.35	9.83
	6H	16.21	16.67	16.73	17.19	17.68	8.63	9.09	9.15	9.61	10.10
	8H	16.17	16.58	16.69	17.08	17.65	8.77	9.18	9.28	9.67	10.24