

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: P1061984

Luminaire Tested: S125RDRP-H1270D940-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-H1270D940-X4F0-XX-UDD-BVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

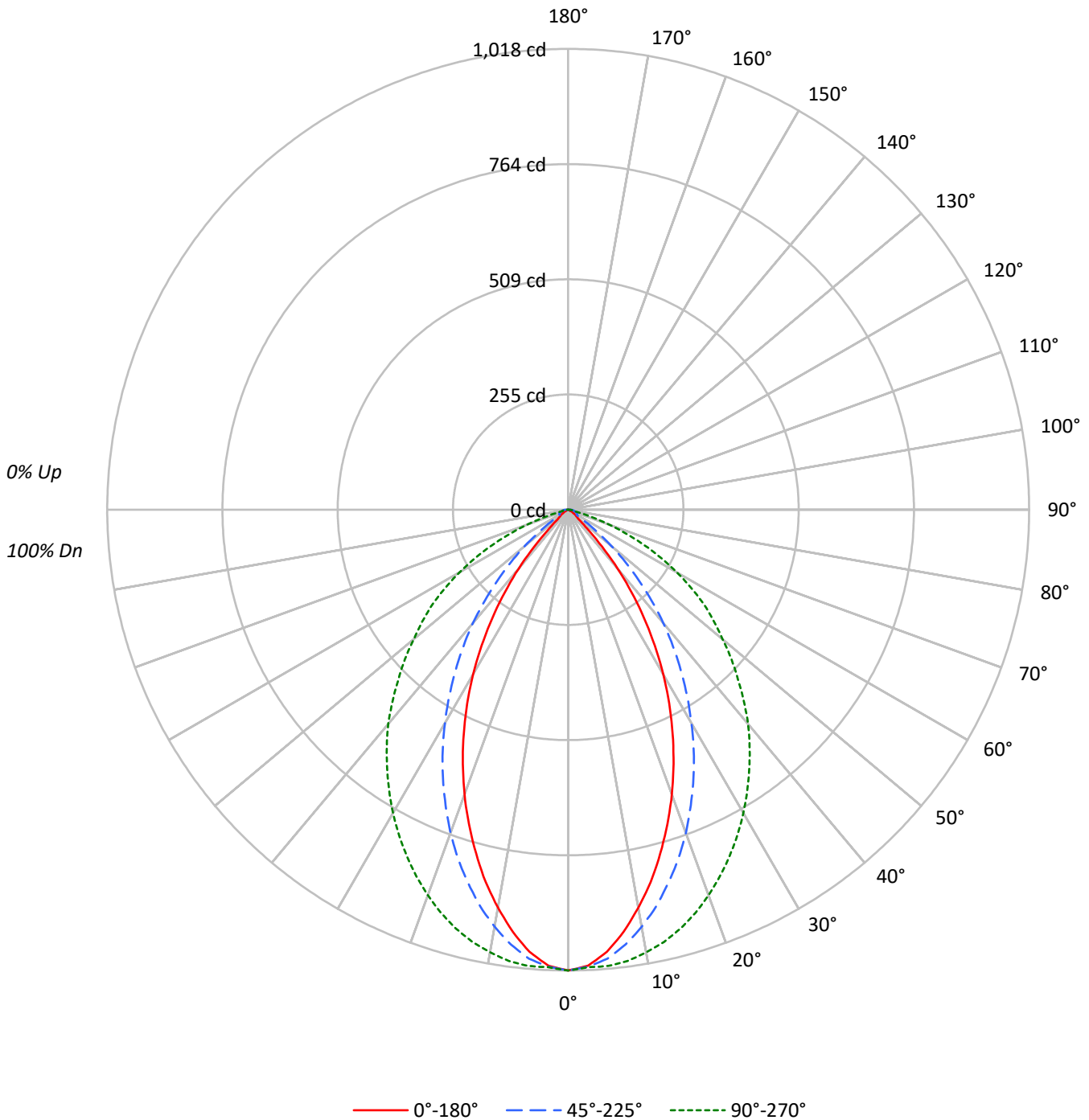
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1309.4 lumens  
Efficiency: N/A  
Efficacy: 35.9 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98  
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 (A<sub>in</sub>): 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	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7009	7009	7009
5°	6776	6880	6992
10°	6241	6539	6942
15°	5603	6086	6827
20°	4906	5566	6641
25°	4143	4971	6410
30°	3339	4326	6150
35°	2455	3646	5859
40°	1532	2941	5556
45°	574	2149	5164
50°	269	1343	4768
55°	196	557	4409
60°	138	293	3816
65°	81	347	3022
70°	76	405	1918
75°	101	399	601
80°	151	496	448
85°	300	790	592

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5164 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.3	7.1
10°-20°	241.7	18.5
20°-30°	307.9	23.5
30°-40°	286.5	21.9
40°-50°	196.3	15.0
50°-60°	108.1	8.3
60°-70°	51.2	3.9
70°-80°	16.1	1.2
80°-90°	8.2	0.6
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°	642.9	49.1
0°-40°	929.4	71.0
0°-60°	1233.8	94.2
0°-90°	1309.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1309.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	980	993	995	1003	1012	91
15°	786	811	854	918	958	219
25°	545	579	654	760	844	249
35°	292	334	434	577	697	181
45°	59	99	221	391	530	56
55°	16	19	46	218	367	15
65°	5	6	21	80	186	6
75°	4	6	15	16	23	4
85°	4	9	10	9	8	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1018.0	1018.0	1018.0	1018.0	1018.0
2.5°	1008.0	1018.0	1010.5	1010.5	1011.7
5°	980.4	992.9	995.4	1003.0	1011.7
7.5°	940.3	956.6	969.1	990.4	1005.5
10°	892.6	912.7	935.3	970.4	992.9
12.5°	842.5	863.8	897.7	946.5	977.9
15°	786.1	811.1	853.8	917.7	957.8
17.5°	728.4	756.0	808.6	883.9	934.0
20°	669.5	698.3	759.7	843.7	906.4
22.5°	608.0	639.4	707.1	802.4	876.3
25°	545.4	579.2	654.4	759.7	843.7
27.5°	482.7	517.8	600.5	715.9	809.9
30°	420.0	456.3	544.1	670.7	773.5
32.5°	356.1	396.2	488.9	625.6	735.9
35°	292.1	333.5	433.8	576.7	697.1
37.5°	229.4	272.1	379.9	530.3	658.2
40°	170.5	213.1	327.2	483.9	618.1
42.5°	110.3	155.5	272.1	436.3	574.2
45°	58.9	99.0	220.7	391.2	530.3
47.5°	31.3	52.7	171.8	346.0	488.9
50°	25.1	28.8	125.4	300.9	445.1
52.5°	20.1	22.6	80.2	254.5	406.2
55°	16.3	18.8	46.4	218.1	367.3
57.5°	12.5	15.0	26.3	181.8	322.2
60°	10.0	11.3	21.3	145.4	277.1
62.5°	6.3	8.8	21.3	112.8	231.9
65°	5.0	6.3	21.3	80.2	185.5
67.5°	5.0	5.0	21.3	52.7	139.2
70°	3.8	3.8	20.1	33.8	95.3
72.5°	3.8	3.8	17.6	22.6	55.2
75°	3.8	6.3	15.0	16.3	22.6
77.5°	3.8	10.0	13.8	13.8	12.5
80°	3.8	10.0	12.5	11.3	11.3
82.5°	3.8	10.0	10.0	10.0	8.8
85°	3.8	8.8	10.0	8.8	7.5
87.5°	3.8	8.8	8.8	8.8	5.0
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	0.00	0.00	0.00	0.00	0.00	15.81	17.10	16.18	17.41	17.72
	3H	0.00	0.00	0.00	0.00	0.00	16.60	17.74	16.98	18.07	18.43
	4H	0.00	0.00	0.00	0.00	0.06	16.62	17.68	17.03	18.03	18.42
	6H	0.00	0.48	0.00	0.85	1.24	16.58	17.55	17.00	17.92	18.32
	8H	0.19	1.11	0.62	1.50	1.91	16.56	17.48	16.99	17.87	18.27
	12H	0.95	1.82	1.38	2.21	2.64	16.54	17.42	16.97	17.80	18.23
4H	2H	0.00	0.64	0.00	0.99	1.37	15.59	16.65	16.00	17.00	17.39
	3H	0.46	1.32	0.87	1.73	2.13	16.42	17.28	16.83	17.69	18.09
	4H	1.07	1.84	1.50	2.26	2.70	16.46	17.23	16.89	17.65	18.09
	6H	2.56	3.23	3.03	3.67	4.14	16.44	17.11	16.91	17.55	18.02
	8H	3.30	3.92	3.77	4.37	4.84	16.43	17.05	16.90	17.50	17.97
	12H	4.05	4.60	4.54	5.08	5.56	16.43	16.98	16.92	17.46	17.93
8H	4H	3.10	3.72	3.57	4.17	4.64	16.34	16.96	16.81	17.41	17.88
	6H	4.84	5.35	5.35	5.85	6.33	16.34	16.85	16.85	17.35	17.83
	8H	5.80	6.25	6.32	6.77	7.26	16.35	16.80	16.87	17.32	17.81
	12H	6.74	7.14	7.25	7.63	8.20	16.40	16.80	16.91	17.29	17.86
12H	4H	3.40	3.95	3.89	4.43	4.91	16.30	16.85	16.79	17.33	17.81
	6H	5.30	5.75	5.82	6.27	6.76	16.30	16.75	16.82	17.27	17.76
	8H	6.43	6.83	6.95	7.33	7.90	16.34	16.74	16.85	17.23	17.81