

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: P1061666

Luminaire Tested: S125RDRP-S375D940-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S375D940-X4F0-XX-UDD-WVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

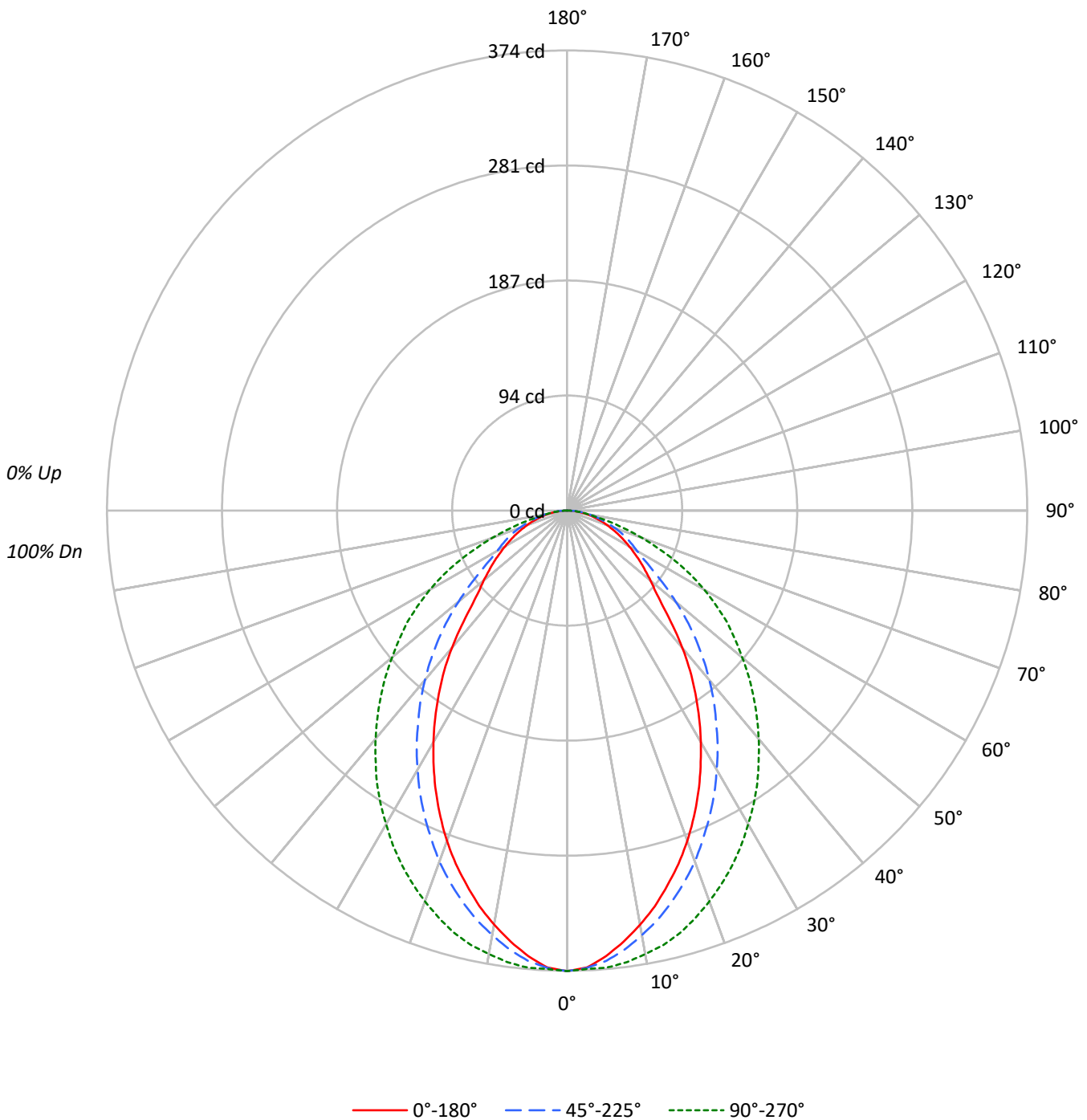
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 701.6 lumens  
Efficiency: N/A  
Efficacy: 56.1 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12  
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 12.5  
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

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

	0°	45°	90°
0°	2577	2577	2577
5°	2512	2538	2577
10°	2389	2449	2559
15°	2247	2345	2532
20°	2093	2225	2477
25°	1917	2082	2414
30°	1727	1932	2340
35°	1527	1775	2266
40°	1310	1616	2178
45°	1070	1438	2086
50°	949	1234	1990
55°	870	1023	1907
60°	803	906	1776
65°	749	872	1584
70°	701	827	1294
75°	646	777	955
80°	607	726	698
85°	561	711	592

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2086 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.6	4.9
10°-20°	93.3	13.3
20°-30°	128.2	18.3
30°-40°	135.9	19.4
40°-50°	118.6	16.9
50°-60°	90.1	12.8
60°-70°	60.4	8.6
70°-80°	31.1	4.4
80°-90°	9.3	1.3
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°	256.2	36.5
0°-40°	392.0	55.9
0°-60°	600.8	85.6
0°-90°	701.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	701.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	374	374	374	374	374	
5°	363	367	367	370	373	34
15°	315	321	329	344	355	88
25°	252	260	274	297	318	116
35°	182	192	211	241	270	113
45°	110	121	148	183	214	87
55°	72	75	85	125	159	65
65°	46	47	54	71	97	46
75°	24	26	29	31	36	26
85°	7	9	9	8	8	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	374.3	374.3	374.3	374.3	374.3
2.5°	371.7	374.3	372.0	372.0	372.8
5°	363.4	367.2	367.2	369.8	372.8
7.5°	353.3	357.4	359.7	365.7	370.2
10°	341.7	346.2	350.3	359.3	366.0
12.5°	329.4	334.3	340.6	352.2	361.6
15°	315.2	321.2	329.0	343.6	355.2
17.5°	301.0	307.0	316.7	333.9	347.0
20°	285.7	292.0	303.6	322.3	338.0
22.5°	269.2	276.3	288.6	310.0	328.3
25°	252.4	260.2	274.1	296.9	317.8
27.5°	234.8	244.2	259.1	283.4	306.6
30°	217.2	226.6	243.0	269.6	294.3
32.5°	199.7	209.8	227.7	255.7	282.3
35°	181.7	192.2	211.2	241.2	269.6
37.5°	164.1	174.6	195.9	227.0	255.7
40°	145.8	156.7	179.8	212.4	242.3
42.5°	127.1	138.7	163.8	197.4	228.4
45°	109.9	120.8	147.7	182.8	214.2
47.5°	97.2	104.3	131.6	167.9	200.4
50°	88.6	92.4	115.2	153.3	185.8
52.5°	80.0	83.0	99.8	138.3	172.0
55°	72.5	74.8	85.2	125.3	158.9
57.5°	65.1	67.3	74.0	112.2	143.6
60°	58.3	60.2	65.8	98.3	129.0
62.5°	52.0	53.5	59.4	85.2	113.3
65°	46.0	47.1	53.5	71.4	97.2
67.5°	40.0	41.1	47.5	58.3	80.0
70°	34.8	35.1	41.1	47.5	64.3
72.5°	29.5	29.9	34.8	38.5	49.4
75°	24.3	25.8	29.2	31.0	35.9
77.5°	19.8	21.7	23.6	24.3	24.3
80°	15.3	17.6	18.3	18.3	17.6
82.5°	11.2	13.1	13.5	12.7	12.0
85°	7.1	9.0	9.0	8.2	7.5
87.5°	3.4	4.9	4.9	4.5	3.4
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	9.90	11.39	10.26	11.71	12.02	13.83	15.32	14.19	15.64	15.95
	3H	11.47	12.81	11.84	13.14	13.50	15.25	16.59	15.62	16.92	17.28
	4H	12.08	13.34	12.48	13.69	14.07	15.66	16.92	16.06	17.27	17.65
	6H	12.57	13.74	12.99	14.10	14.50	15.88	17.04	16.29	17.41	17.80
	8H	12.75	13.85	13.17	14.24	14.65	15.94	17.04	16.36	17.43	17.83
	12H	12.87	13.93	13.30	14.31	14.74	15.97	17.03	16.40	17.41	17.84
4H	2H	10.63	11.89	11.03	12.24	12.62	13.95	15.21	14.35	15.56	15.94
	3H	12.41	13.46	12.82	13.86	14.26	15.56	16.60	15.97	17.00	17.41
	4H	13.15	14.09	13.58	14.50	14.94	16.09	17.03	16.52	17.44	17.88
	6H	13.78	14.60	14.24	15.04	15.50	16.43	17.25	16.89	17.69	18.15
	8H	14.01	14.78	14.47	15.22	15.69	16.53	17.29	16.99	17.74	18.21
	12H	14.18	14.87	14.67	15.35	15.82	16.60	17.28	17.08	17.76	18.23
8H	4H	13.55	14.31	14.01	14.76	15.22	16.19	16.96	16.66	17.40	17.87
	6H	14.33	14.97	14.83	15.46	15.94	16.63	17.26	17.13	17.76	18.23
	8H	14.66	15.23	15.17	15.74	16.22	16.79	17.36	17.30	17.87	18.36
	12H	14.93	15.43	15.44	15.93	16.49	16.93	17.43	17.44	17.92	18.48
12H	4H	13.59	14.27	14.07	14.75	15.22	16.19	16.88	16.68	17.36	17.83
	6H	14.42	14.99	14.93	15.50	15.98	16.65	17.22	17.16	17.73	18.21
	8H	14.81	15.31	15.32	15.81	16.37	16.86	17.36	17.37	17.85	18.42