

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: P1061648

Luminaire Tested: S125RDRP-S375D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061648  
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-S375D930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

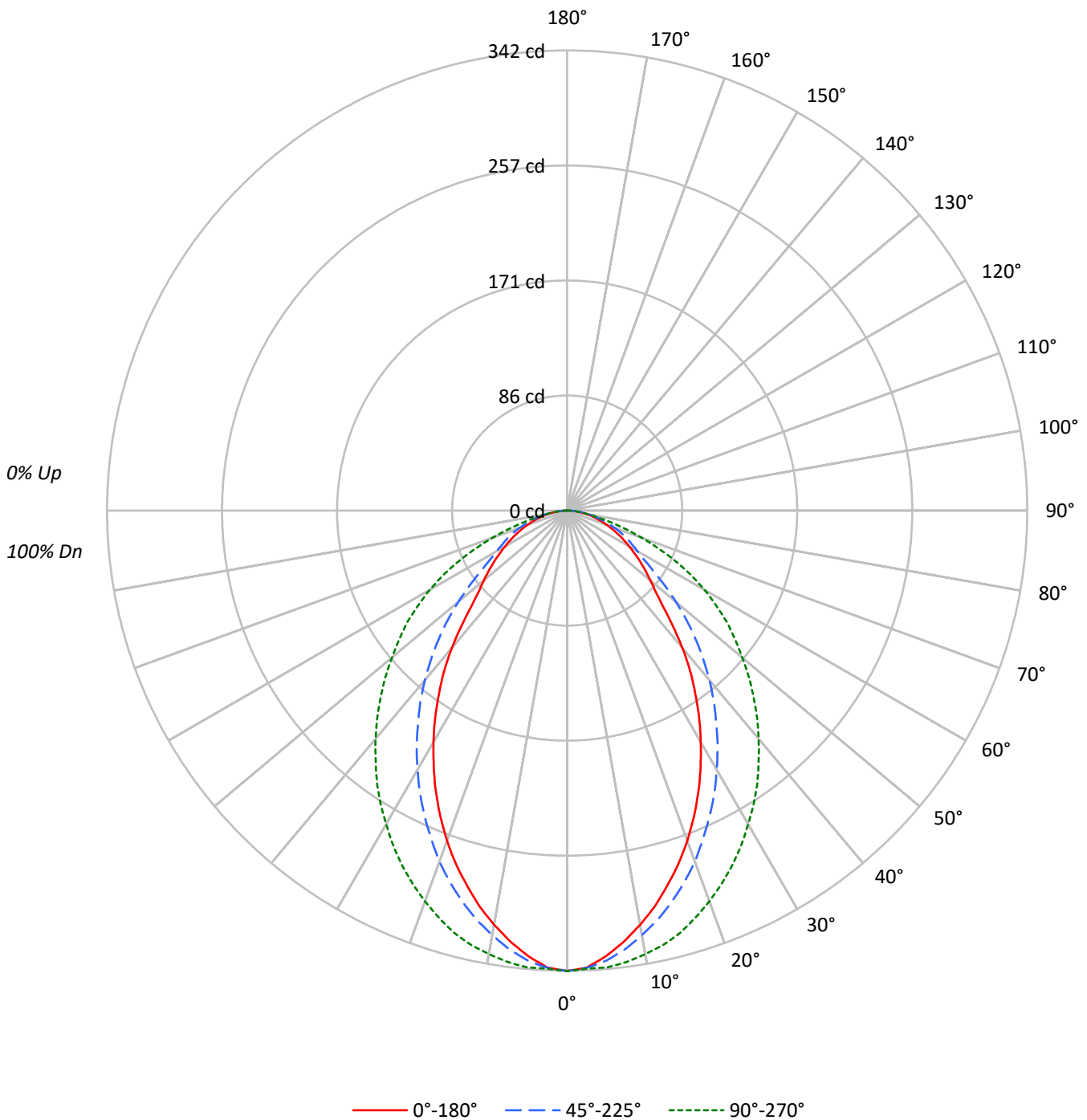
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 641.5 lumens  
Efficiency: N/A  
Efficacy: 51.3 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°	2356	2356	2356
5°	2297	2320	2355
10°	2185	2239	2340
15°	2054	2144	2315
20°	1914	2034	2264
25°	1753	1904	2208
30°	1579	1767	2139
35°	1396	1623	2072
40°	1198	1478	1991
45°	979	1315	1908
50°	868	1128	1820
55°	796	935	1744
60°	734	829	1624
65°	684	797	1448
70°	640	757	1184
75°	591	710	873
80°	555	666	638
85°	513	648	537

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1908 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.7	4.9
10°-20°	85.3	13.3
20°-30°	117.2	18.3
30°-40°	124.2	19.4
40°-50°	108.4	16.9
50°-60°	82.4	12.8
60°-70°	55.2	8.6
70°-80°	28.5	4.4
80°-90°	8.5	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°	234.2	36.5
0°-40°	358.4	55.9
0°-60°	549.3	85.6
0°-90°	641.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	342	342	342	342	342	
5°	332	336	336	338	341	31
15°	288	294	301	314	325	81
25°	231	238	251	271	291	106
35°	166	176	193	220	246	104
45°	100	110	135	167	196	79
55°	66	68	78	114	145	59
65°	42	43	49	65	89	42
75°	22	24	27	28	33	24
85°	6	8	8	8	7	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	342.2	342.2	342.2	342.2	342.2
2.5°	339.8	342.2	340.1	340.1	340.8
5°	332.3	335.7	335.7	338.1	340.8
7.5°	323.1	326.8	328.9	334.3	338.4
10°	312.5	316.6	320.3	328.5	334.7
12.5°	301.2	305.6	311.4	322.0	330.6
15°	288.2	293.7	300.8	314.2	324.8
17.5°	275.2	280.7	289.6	305.3	317.2
20°	261.2	267.0	277.6	294.7	309.0
22.5°	246.1	252.6	263.9	283.4	300.1
25°	230.8	237.9	250.6	271.4	290.6
27.5°	214.7	223.2	236.9	259.1	280.3
30°	198.6	207.2	222.2	246.5	269.0
32.5°	182.6	191.8	208.2	233.8	258.1
35°	166.1	175.7	193.1	220.5	246.5
37.5°	150.1	159.6	179.1	207.5	233.8
40°	133.3	143.2	164.4	194.2	221.5
42.5°	116.2	126.8	149.7	180.5	208.9
45°	100.5	110.4	135.0	167.2	195.9
47.5°	88.9	95.4	120.3	153.5	183.2
50°	81.0	84.4	105.3	140.2	169.9
52.5°	73.2	75.9	91.3	126.5	157.3
55°	66.3	68.4	77.9	114.5	145.3
57.5°	59.5	61.5	67.7	102.6	131.3
60°	53.3	55.0	60.2	89.9	117.9
62.5°	47.5	48.9	54.4	77.9	103.6
65°	42.0	43.1	48.9	65.3	88.9
67.5°	36.6	37.6	43.4	53.3	73.2
70°	31.8	32.1	37.6	43.4	58.8
72.5°	27.0	27.3	31.8	35.2	45.1
75°	22.2	23.6	26.7	28.4	32.8
77.5°	18.1	19.8	21.5	22.2	22.2
80°	14.0	16.1	16.8	16.8	16.1
82.5°	10.3	12.0	12.3	11.6	10.9
85°	6.5	8.2	8.2	7.5	6.8
87.5°	3.1	4.4	4.4	4.1	3.1
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	9.58	11.08	9.95	11.39	11.71	13.51	15.01	13.88	15.32	15.64
	3H	11.15	12.50	11.53	12.82	13.19	14.94	16.28	15.31	16.61	16.97
	4H	11.77	13.03	12.17	13.37	13.75	15.35	16.61	15.75	16.96	17.34
	6H	12.26	13.42	12.67	13.79	14.18	15.57	16.73	15.98	17.10	17.49
	8H	12.44	13.54	12.86	13.93	14.33	15.62	16.73	16.05	17.12	17.52
	12H	12.56	13.62	12.99	14.00	14.43	15.66	16.72	16.09	17.10	17.53
4H	2H	10.32	11.58	10.72	11.93	12.31	13.64	14.90	14.04	15.25	15.63
	3H	12.10	13.14	12.51	13.54	13.95	15.25	16.29	15.66	16.69	17.10
	4H	12.83	13.78	13.27	14.19	14.63	15.78	16.72	16.21	17.13	17.57
	6H	13.47	14.29	13.93	14.73	15.19	16.12	16.94	16.58	17.38	17.84
	8H	13.70	14.46	14.16	14.91	15.38	16.22	16.98	16.68	17.43	17.89
	12H	13.87	14.56	14.36	15.04	15.51	16.29	16.97	16.77	17.45	17.92
8H	4H	13.23	14.00	13.70	14.44	14.91	15.88	16.65	16.35	17.09	17.56
	6H	14.02	14.65	14.52	15.15	15.62	16.32	16.95	16.82	17.45	17.92
	8H	14.35	14.92	14.86	15.43	15.91	16.48	17.05	16.99	17.56	18.05
	12H	14.62	15.12	15.13	15.62	16.18	16.61	17.12	17.12	17.61	18.17
12H	4H	13.28	13.96	13.76	14.44	14.91	15.88	16.57	16.37	17.04	17.52
	6H	14.11	14.67	14.62	15.18	15.67	16.34	16.91	16.85	17.42	17.90
	8H	14.50	15.00	15.01	15.50	16.06	16.55	17.05	17.06	17.54	18.11