

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: P1061636

Luminaire Tested: S125RDRP-S375D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1061636  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-86)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDRP-S375D927-X4F0-XX-UDD-SVL-S  
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

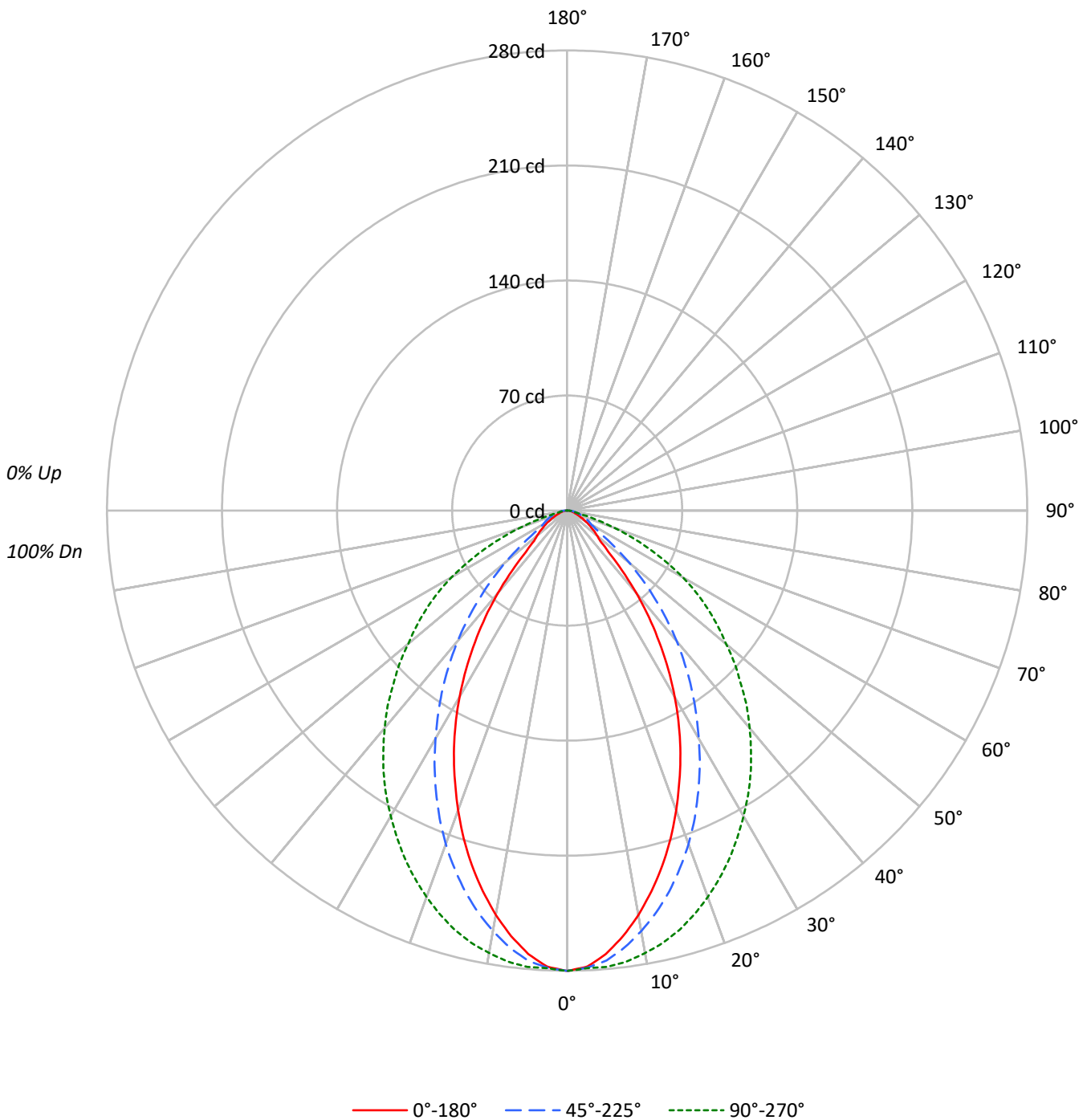
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 404.4 lumens  
Efficiency: N/A  
Efficacy: 32.4 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02  
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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	78	67	60	54	77	66	59	54	65	58	53	63	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36

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

	0°	45°	90°
0°	1929	1929	1929
5°	1872	1899	1926
10°	1746	1816	1911
15°	1594	1710	1883
20°	1421	1583	1833
25°	1239	1434	1775
30°	1041	1273	1706
35°	821	1109	1637
40°	589	932	1553
45°	346	731	1456
50°	256	527	1353
55°	215	319	1257
60°	174	233	1121
65°	135	222	899
70°	113	207	608
75°	106	186	266
80°	107	186	170
85°	134	237	182

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 1456 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.8	6.4
10°-20°	67.8	16.8
20°-30°	88.6	21.9
30°-40°	86.2	21.3
40°-50°	64.5	15.9
50°-60°	40.0	9.9
60°-70°	21.0	5.2
70°-80°	7.7	1.9
80°-90°	2.9	0.7
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°	182.2	45.1
0°-40°	268.4	66.4
0°-60°	372.9	92.2
0°-90°	404.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	404.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	280	280	280	280	280	
5°	271	274	275	276	279	25
15°	224	230	240	254	264	62
25°	163	171	189	214	234	74
35°	98	108	132	167	195	61
45°	36	46	75	117	150	30
55°	18	19	27	69	105	16
65°	8	9	14	29	55	9
75°	4	5	7	8	10	4
85°	2	3	3	3	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	280.1	280.1	280.1	280.1	280.1
2.5°	277.8	280.1	278.4	278.4	278.7
5°	270.8	274.4	274.8	276.4	278.7
7.5°	261.1	265.5	268.1	273.1	276.8
10°	249.8	254.8	259.8	268.1	273.4
12.5°	237.2	243.2	250.5	261.8	269.4
15°	223.6	230.2	239.9	254.5	264.1
17.5°	209.3	216.3	228.2	245.9	257.5
20°	194.0	201.7	216.0	235.9	250.2
22.5°	178.4	187.1	202.7	225.3	242.2
25°	163.1	171.4	188.7	214.3	233.6
27.5°	147.2	155.8	174.8	203.0	224.3
30°	130.9	140.2	160.1	191.4	214.6
32.5°	114.6	124.3	145.9	179.4	205.0
35°	97.7	108.3	131.9	167.1	194.7
37.5°	81.7	93.0	117.6	154.5	183.7
40°	65.5	77.1	103.7	142.2	172.8
42.5°	49.5	61.5	89.4	129.6	161.8
45°	35.5	46.5	75.1	117.3	149.5
47.5°	27.2	33.6	61.8	104.7	138.5
50°	23.9	25.9	49.2	92.4	126.3
52.5°	20.9	22.3	36.5	80.4	115.6
55°	17.9	18.9	26.6	69.1	104.7
57.5°	15.3	16.3	20.3	58.8	93.4
60°	12.6	13.6	16.9	48.5	81.4
62.5°	10.6	11.0	15.3	38.9	68.1
65°	8.3	9.0	13.6	29.2	55.2
67.5°	7.0	7.3	12.0	20.9	42.5
70°	5.6	6.0	10.3	14.6	30.2
72.5°	5.0	5.0	8.6	10.6	19.3
75°	4.0	4.7	7.0	7.6	10.0
77.5°	3.3	4.7	6.0	5.6	5.3
80°	2.7	4.3	4.7	4.7	4.3
82.5°	2.3	3.7	4.0	3.7	3.3
85°	1.7	3.0	3.0	3.0	2.3
87.5°	1.3	2.7	2.3	2.3	1.7
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	2.07	3.42	2.44	3.74	4.05	11.77	13.12	12.14	13.44	13.75
	3H	2.91	4.11	3.29	4.44	4.80	12.68	13.88	13.06	14.21	14.57
	4H	3.27	4.39	3.68	4.74	5.12	12.78	13.90	13.18	14.25	14.63
	6H	3.65	4.68	4.06	5.05	5.44	12.77	13.79	13.18	14.16	14.56
	8H	3.83	4.80	4.26	5.19	5.60	12.75	13.73	13.18	14.12	14.52
	12H	3.99	4.93	4.43	5.31	5.74	12.74	13.67	13.17	14.05	14.48
4H	2H	2.90	4.02	3.30	4.37	4.75	11.62	12.74	12.02	13.09	13.47
	3H	3.96	4.87	4.37	5.28	5.68	12.61	13.52	13.02	13.93	14.33
	4H	4.42	5.24	4.85	5.66	6.10	12.74	13.56	13.17	13.98	14.42
	6H	4.98	5.69	5.44	6.13	6.60	12.77	13.48	13.23	13.92	14.39
	8H	5.24	5.90	5.71	6.35	6.82	12.77	13.43	13.24	13.88	14.35
	12H	5.48	6.07	5.97	6.55	7.02	12.78	13.36	13.27	13.85	14.32
8H	4H	4.97	5.63	5.44	6.08	6.55	12.66	13.32	13.13	13.77	14.24
	6H	5.76	6.30	6.26	6.79	7.27	12.72	13.26	13.23	13.76	14.24
	8H	6.18	6.66	6.70	7.17	7.67	12.75	13.24	13.27	13.75	14.24
	12H	6.60	7.02	7.11	7.52	8.09	12.81	13.24	13.32	13.73	14.30
12H	4H	5.04	5.62	5.52	6.10	6.58	12.63	13.21	13.12	13.70	14.17
	6H	5.90	6.39	6.42	6.90	7.39	12.69	13.18	13.21	13.69	14.18
	8H	6.43	6.86	6.95	7.36	7.93	12.76	13.18	13.27	13.68	14.25