

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: P1061645

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061645
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-S375D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

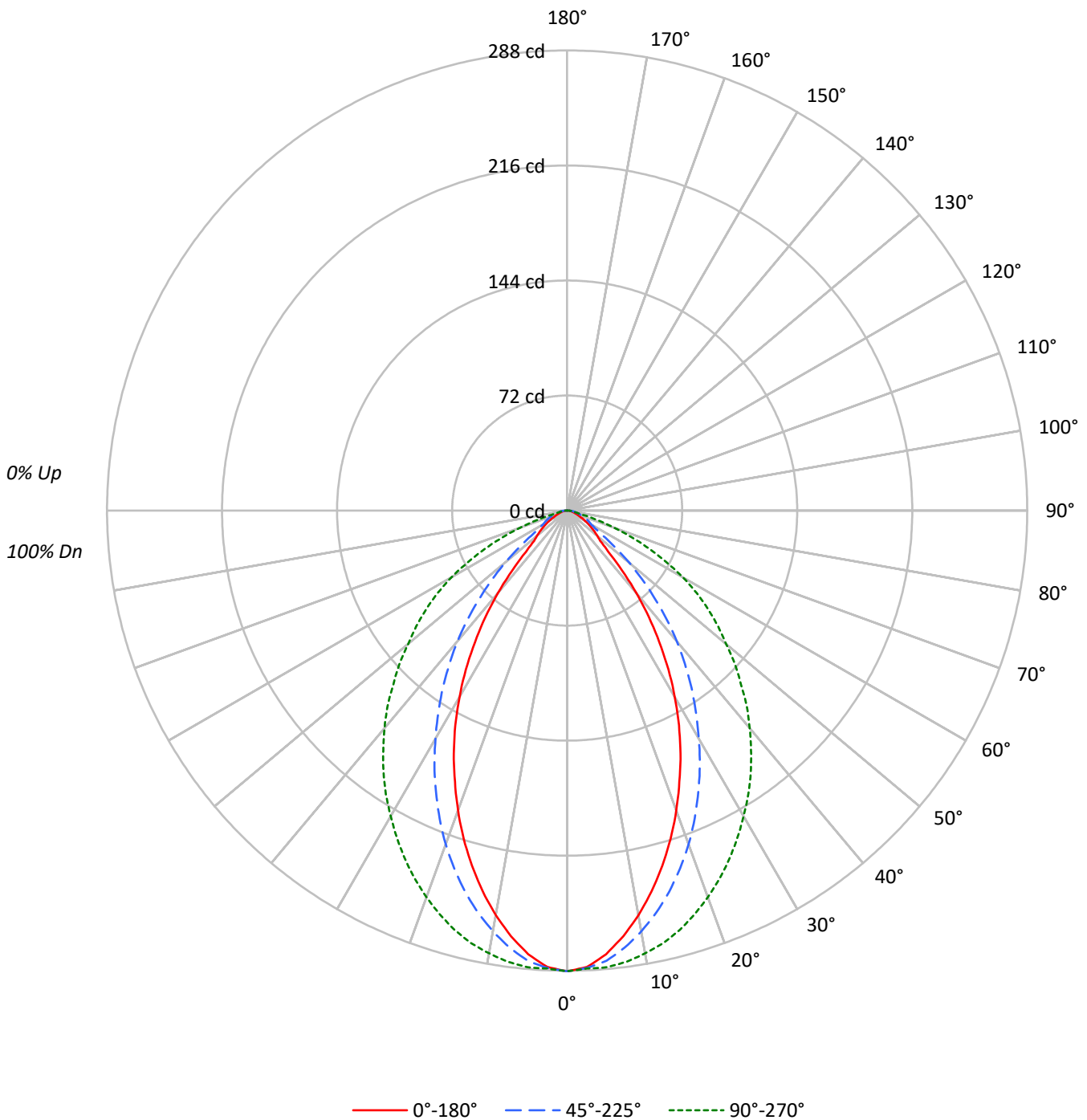
Lumens per Lamp: N/A
Luminaire Lumens: 416.2 lumens
Efficiency: N/A
Efficacy: 33.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 12.5
Input Voltage (V): 120
Input Current (A_{in}): 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°	1985	1985	1985
5°	1926	1955	1983
10°	1798	1870	1967
15°	1640	1760	1937
20°	1463	1629	1887
25°	1276	1475	1826
30°	1071	1310	1756
35°	845	1141	1684
40°	606	959	1598
45°	356	753	1499
50°	264	542	1391
55°	222	329	1293
60°	179	240	1154
65°	138	228	925
70°	117	213	626
75°	109	192	274
80°	107	190	174
85°	134	245	190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 1499 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	6.4
10°-20°	69.8	16.8
20°-30°	91.2	21.9
30°-40°	88.8	21.3
40°-50°	66.3	15.9
50°-60°	41.1	9.9
60°-70°	21.6	5.2
70°-80°	7.9	1.9
80°-90°	3.0	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°	187.5	45.1
0°-40°	276.3	66.4
0°-60°	383.8	92.2
0°-90°	416.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	416.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	288	288	288	288	288	
5°	279	282	283	284	287	26
15°	230	237	247	262	272	64
25°	168	176	194	220	240	77
35°	100	112	136	172	200	63
45°	37	48	77	121	154	31
55°	18	20	27	71	108	17
65°	8	9	14	30	57	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°	288.3	288.3	288.3	288.3	288.3
2.5°	285.9	288.3	286.5	286.5	286.9
5°	278.7	282.4	282.8	284.5	286.9
7.5°	268.8	273.2	275.9	281.1	284.8
10°	257.1	262.3	267.4	275.9	281.4
12.5°	244.1	250.3	257.8	269.4	277.3
15°	230.1	237.0	246.9	261.9	271.8
17.5°	215.4	222.6	234.9	253.0	265.0
20°	199.7	207.6	222.3	242.8	257.5
22.5°	183.6	192.5	208.6	231.8	249.3
25°	167.9	176.4	194.2	220.5	240.4
27.5°	151.5	160.4	179.9	208.9	230.8
30°	134.7	144.3	164.8	197.0	220.9
32.5°	118.0	127.9	150.1	184.6	211.0
35°	100.5	111.5	135.7	172.0	200.4
37.5°	84.1	95.7	121.0	159.0	189.1
40°	67.4	79.3	106.7	146.3	177.8
42.5°	50.9	63.3	92.0	133.4	166.5
45°	36.6	47.9	77.3	120.7	153.9
47.5°	28.0	34.5	63.6	107.7	142.6
50°	24.6	26.7	50.6	95.1	129.9
52.5°	21.5	22.9	37.6	82.7	119.0
55°	18.5	19.5	27.4	71.1	107.7
57.5°	15.7	16.8	20.9	60.5	96.1
60°	13.0	14.0	17.4	49.9	83.8
62.5°	10.9	11.3	15.7	40.0	70.1
65°	8.5	9.2	14.0	30.1	56.8
67.5°	7.2	7.5	12.3	21.5	43.8
70°	5.8	6.2	10.6	15.0	31.1
72.5°	5.1	5.1	8.9	10.9	19.8
75°	4.1	4.8	7.2	7.9	10.3
77.5°	3.4	4.8	6.2	5.8	5.5
80°	2.7	4.4	4.8	4.8	4.4
82.5°	2.4	3.8	4.1	3.8	3.4
85°	1.7	3.1	3.1	3.1	2.4
87.5°	1.4	2.7	2.4	2.4	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	2.18	3.53	2.55	3.84	4.16	11.87	13.22	12.24	13.53	13.85
	3H	3.02	4.22	3.40	4.55	4.91	12.78	13.98	13.16	14.31	14.67
	4H	3.37	4.49	3.78	4.84	5.22	12.88	14.00	13.28	14.35	14.73
	6H	3.74	4.77	4.16	5.14	5.53	12.87	13.89	13.28	14.26	14.66
	8H	3.92	4.89	4.35	5.29	5.69	12.85	13.83	13.28	14.22	14.62
	12H	4.08	5.02	4.52	5.40	5.83	12.84	13.77	13.27	14.15	14.58
4H	2H	3.00	4.12	3.41	4.47	4.85	11.72	12.84	12.12	13.19	13.57
	3H	4.06	4.98	4.47	5.38	5.78	12.71	13.62	13.12	14.03	14.43
	4H	4.52	5.33	4.95	5.75	6.20	12.84	13.66	13.27	14.08	14.52
	6H	5.07	5.77	5.53	6.22	6.68	12.87	13.58	13.33	14.02	14.49
	8H	5.33	5.99	5.80	6.43	6.90	12.87	13.53	13.34	13.98	14.45
	12H	5.57	6.15	6.06	6.64	7.11	12.88	13.46	13.37	13.95	14.42
8H	4H	5.07	5.73	5.54	6.18	6.65	12.76	13.42	13.23	13.87	14.34
	6H	5.84	6.38	6.34	6.88	7.36	12.82	13.36	13.33	13.86	14.34
	8H	6.26	6.75	6.78	7.26	7.75	12.85	13.34	13.38	13.85	14.34
	12H	6.68	7.11	7.20	7.61	8.18	12.91	13.34	13.42	13.83	14.40
12H	4H	5.13	5.72	5.62	6.20	6.67	12.73	13.31	13.22	13.80	14.27
	6H	5.99	6.47	6.51	6.99	7.48	12.79	13.28	13.31	13.79	14.28
	8H	6.52	6.95	7.03	7.44	8.01	12.86	13.28	13.37	13.78	14.35