

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: P1061627

Luminaire Tested: S125RDRP-S375D850-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061627
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-S375D850-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: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

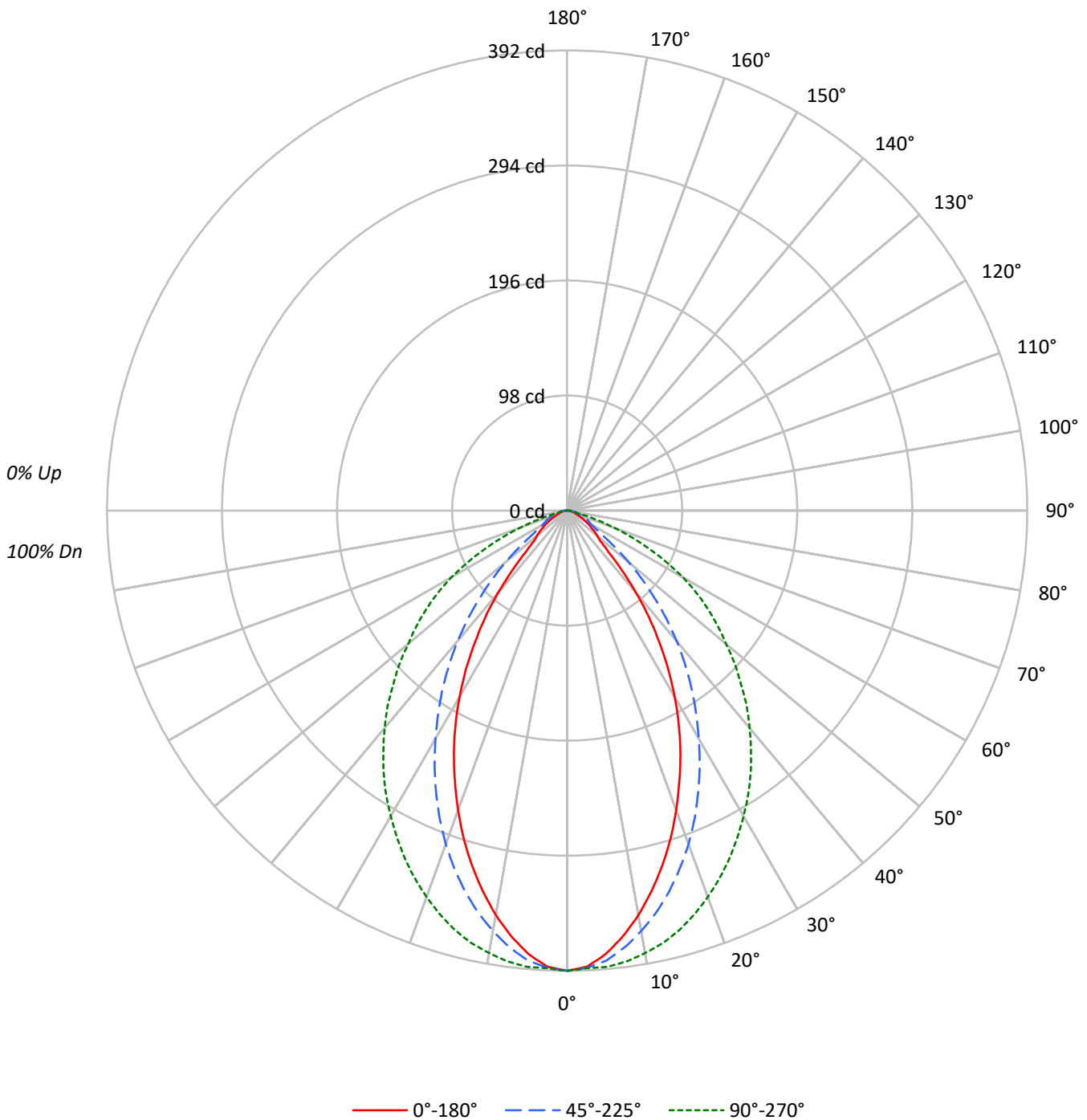
Lumens per Lamp: N/A
Luminaire Lumens: 566.2 lumens
Efficiency: N/A
Efficacy: 45.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.15 / 1.02
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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°	2700	2700	2700
5°	2620	2658	2697
10°	2446	2543	2676
15°	2231	2394	2636
20°	1990	2215	2566
25°	1735	2007	2484
30°	1457	1782	2389
35°	1149	1552	2291
40°	823	1304	2174
45°	485	1023	2038
50°	359	737	1893
55°	301	447	1759
60°	244	326	1570
65°	189	311	1258
70°	159	290	852
75°	149	261	372
80°	147	258	238
85°	182	332	261

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2038 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	6.4
10°-20°	94.9	16.8
20°-30°	124.0	21.9
30°-40°	120.7	21.3
40°-50°	90.2	15.9
50°-60°	56.0	9.9
60°-70°	29.4	5.2
70°-80°	10.7	1.9
80°-90°	4.1	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°	255.1	45.1
0°-40°	375.8	66.4
0°-60°	522.0	92.2
0°-90°	566.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	566.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	392	392	392	392	392	
5°	379	384	385	387	390	35
15°	313	322	336	356	370	87
25°	228	240	264	300	327	104
35°	137	152	185	234	273	85
45°	50	65	105	164	209	42
55°	25	26	37	97	146	23
65°	12	13	19	41	77	12
75°	6	6	10	11	14	6
85°	2	4	4	4	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	392.1	392.1	392.1	392.1	392.1
2.5°	388.8	392.1	389.8	389.8	390.2
5°	379.1	384.2	384.6	387.0	390.2
7.5°	365.6	371.6	375.3	382.3	387.4
10°	349.8	356.7	363.7	375.3	382.8
12.5°	332.1	340.5	350.7	366.5	377.2
15°	313.0	322.3	335.8	356.3	369.8
17.5°	293.0	302.8	319.5	344.2	360.5
20°	271.6	282.3	302.3	330.2	350.2
22.5°	249.8	261.9	283.7	315.3	339.1
25°	228.4	240.0	264.2	300.0	327.0
27.5°	206.0	218.1	244.6	284.2	314.0
30°	183.3	196.3	224.2	267.9	300.5
32.5°	160.5	174.0	204.2	251.2	287.0
35°	136.7	151.6	184.7	234.0	272.6
37.5°	114.4	130.2	164.7	216.3	257.2
40°	91.6	107.9	145.1	199.1	241.9
42.5°	69.3	86.0	125.1	181.4	226.5
45°	49.8	65.1	105.1	164.2	209.3
47.5°	38.1	47.0	86.5	146.5	194.0
50°	33.5	36.3	68.8	129.3	176.7
52.5°	29.3	31.2	51.2	112.6	161.9
55°	25.1	26.5	37.2	96.7	146.5
57.5°	21.4	22.8	28.4	82.3	130.7
60°	17.7	19.1	23.7	67.9	114.0
62.5°	14.9	15.3	21.4	54.4	95.3
65°	11.6	12.6	19.1	40.9	77.2
67.5°	9.8	10.2	16.7	29.3	59.5
70°	7.9	8.4	14.4	20.5	42.3
72.5°	7.0	7.0	12.1	14.9	27.0
75°	5.6	6.5	9.8	10.7	14.0
77.5°	4.7	6.5	8.4	7.9	7.4
80°	3.7	6.0	6.5	6.5	6.0
82.5°	3.3	5.1	5.6	5.1	4.7
85°	2.3	4.2	4.2	4.2	3.3
87.5°	1.9	3.7	3.3	3.3	2.3
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	3.24	4.59	3.61	4.90	5.22	12.94	14.29	13.31	14.60	14.92
	3H	4.08	5.28	4.46	5.61	5.97	13.85	15.05	14.23	15.38	15.74
	4H	4.44	5.56	4.84	5.91	6.29	13.95	15.07	14.35	15.42	15.80
	6H	4.81	5.84	5.23	6.21	6.60	13.94	14.96	14.35	15.33	15.73
	8H	5.00	5.97	5.43	6.36	6.76	13.92	14.90	14.35	15.29	15.69
	12H	5.16	6.09	5.59	6.47	6.90	13.91	14.84	14.34	15.22	15.65
4H	2H	4.07	5.19	4.47	5.54	5.92	12.79	13.91	13.19	14.26	14.64
	3H	5.13	6.04	5.54	6.45	6.85	13.78	14.69	14.19	15.10	15.50
	4H	5.58	6.40	6.02	6.82	7.26	13.91	14.73	14.34	15.15	15.59
	6H	6.14	6.85	6.60	7.29	7.76	13.94	14.65	14.40	15.09	15.56
	8H	6.40	7.06	6.87	7.51	7.98	13.94	14.60	14.41	15.05	15.52
	12H	6.64	7.23	7.13	7.71	8.18	13.95	14.53	14.44	15.02	15.49
8H	4H	6.14	6.80	6.61	7.25	7.72	13.83	14.49	14.30	14.94	15.41
	6H	6.91	7.45	7.41	7.95	8.43	13.89	14.43	14.40	14.93	15.41
	8H	7.33	7.81	7.85	8.33	8.82	13.92	14.41	14.44	14.92	15.41
	12H	7.75	8.17	8.26	8.67	9.24	13.98	14.41	14.49	14.90	15.47
12H	4H	6.20	6.78	6.69	7.27	7.74	13.80	14.38	14.29	14.87	15.34
	6H	7.06	7.54	7.58	8.06	8.55	13.86	14.34	14.38	14.86	15.35
	8H	7.58	8.01	8.10	8.51	9.08	13.93	14.35	14.44	14.85	15.42