

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: P1061801

Luminaire Tested: S125RDRP-S850D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061801
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-S850D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

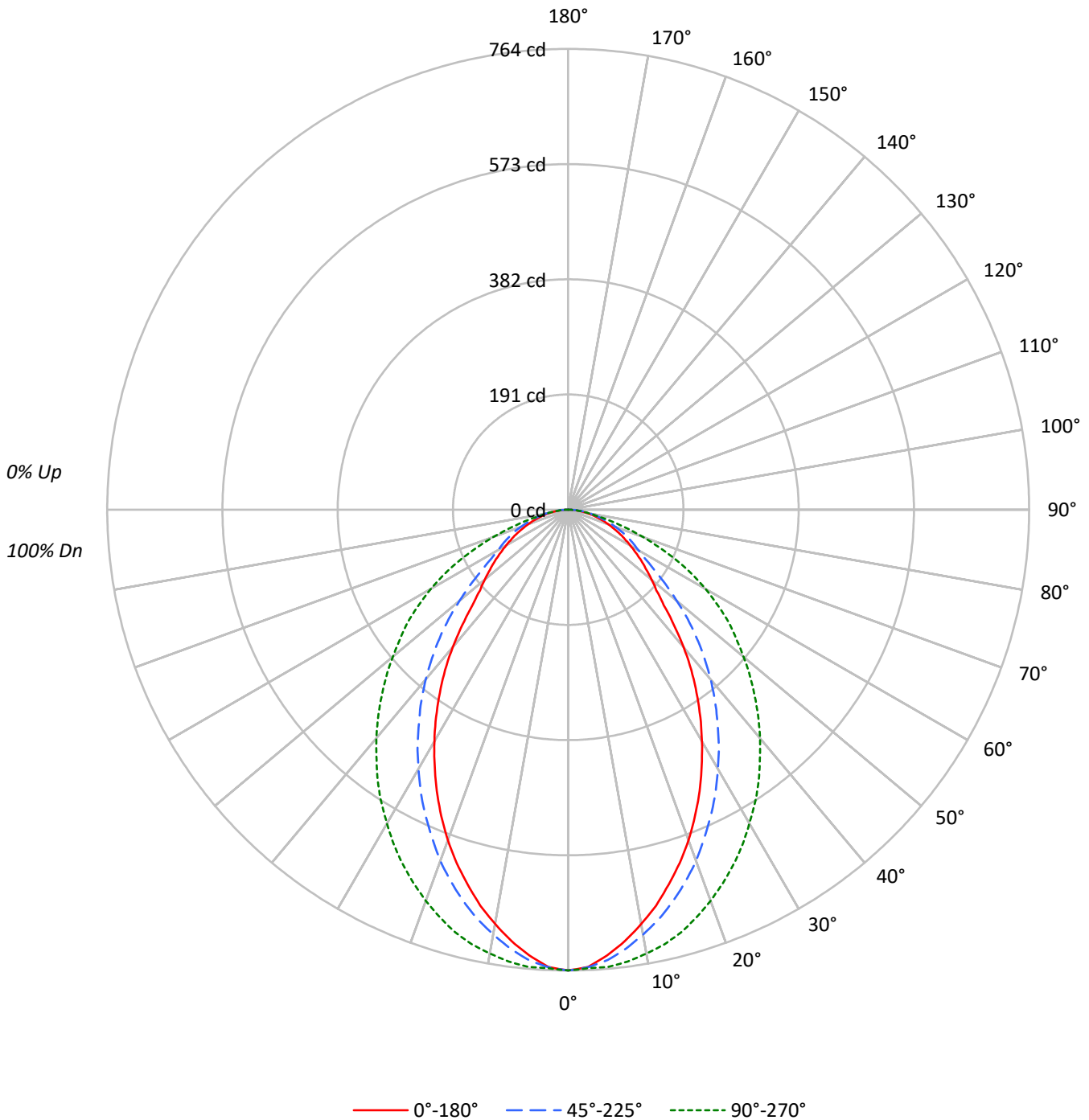
Lumens per Lamp: N/A
Luminaire Lumens: 1432.0 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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	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°	5260	5260	5260
5°	5127	5180	5258
10°	4877	5000	5223
15°	4586	4787	5168
20°	4272	4541	5055
25°	3913	4250	4928
30°	3525	3943	4775
35°	3118	3624	4625
40°	2675	3300	4445
45°	2185	2935	4258
50°	1938	2517	4063
55°	1777	2089	3893
60°	1639	1849	3626
65°	1530	1777	3232
70°	1429	1689	2643
75°	1319	1583	1950
80°	1241	1483	1423
85°	1145	1446	1209

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4258 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	4.9
10°-20°	190.4	13.3
20°-30°	261.7	18.3
30°-40°	277.4	19.4
40°-50°	242.1	16.9
50°-60°	183.9	12.8
60°-70°	123.2	8.6
70°-80°	63.5	4.4
80°-90°	19.1	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°	522.8	36.5
0°-40°	800.2	55.9
0°-60°	1226.2	85.6
0°-90°	1432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	742	749	749	755	761	69
15°	643	656	672	701	725	180
25°	515	531	559	606	649	236
35°	371	392	431	492	550	231
45°	224	246	301	373	437	177
55°	148	153	174	256	324	133
65°	94	96	109	146	198	93
75°	50	53	60	63	73	53
85°	14	18	18	17	15	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	763.9	763.9	763.9	763.9	763.9
2.5°	758.6	763.9	759.3	759.3	760.8
5°	741.8	749.4	749.4	754.7	760.8
7.5°	721.2	729.6	734.1	746.3	755.5
10°	697.5	706.7	715.1	733.4	747.1
12.5°	672.3	682.2	695.2	718.9	738.0
15°	643.3	655.5	671.6	701.3	725.0
17.5°	614.3	626.5	646.4	681.5	708.2
20°	583.0	596.0	619.7	657.8	689.9
22.5°	549.5	564.0	589.1	632.6	670.0
25°	515.1	531.1	559.4	605.9	648.7
27.5°	479.2	498.3	528.9	578.5	625.8
30°	443.4	462.5	496.0	550.2	600.6
32.5°	407.5	428.1	464.7	522.0	576.2
35°	370.9	392.3	431.2	492.2	550.2
37.5°	335.0	356.4	399.9	463.2	522.0
40°	297.6	319.8	367.1	433.5	494.5
42.5°	259.5	283.1	334.3	402.9	466.3
45°	224.4	246.5	301.4	373.2	437.3
47.5°	198.4	212.9	268.6	342.6	409.0
50°	180.9	188.5	235.0	312.9	379.3
52.5°	163.3	169.4	203.8	282.4	351.0
55°	148.0	152.6	174.0	255.7	324.3
57.5°	132.8	137.4	151.1	228.9	293.0
60°	119.0	122.9	134.3	200.7	263.3
62.5°	106.1	109.1	121.3	174.0	231.2
65°	93.9	96.2	109.1	145.8	198.4
67.5°	81.7	83.9	96.9	119.0	163.3
70°	71.0	71.7	83.9	96.9	131.3
72.5°	60.3	61.1	71.0	78.6	100.7
75°	49.6	52.7	59.5	63.3	73.3
77.5°	40.4	44.3	48.1	49.6	49.6
80°	31.3	35.9	37.4	37.4	35.9
82.5°	22.9	26.7	27.5	25.9	24.4
85°	14.5	18.3	18.3	16.8	15.3
87.5°	6.9	9.9	9.9	9.2	6.9
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	12.38	13.87	12.74	14.19	14.50	16.30	17.80	16.67	18.11	18.43
	3H	13.95	15.29	14.32	15.62	15.98	17.72	19.07	18.10	19.39	19.76
	4H	14.56	15.82	14.96	16.17	16.55	18.14	19.40	18.54	19.75	20.12
	6H	15.05	16.22	15.47	16.58	16.98	18.35	19.52	18.77	19.88	20.28
	8H	15.23	16.34	15.66	16.73	17.13	18.41	19.52	18.84	19.91	20.31
	12H	15.35	16.41	15.78	16.79	17.22	18.45	19.51	18.88	19.89	20.32
4H	2H	13.11	14.37	13.51	14.72	15.10	16.43	17.69	16.83	18.03	18.41
	3H	14.89	15.94	15.30	16.34	16.74	18.04	19.08	18.45	19.48	19.88
	4H	15.63	16.57	16.06	16.98	17.42	18.56	19.50	19.00	19.92	20.36
	6H	16.26	17.08	16.72	17.52	17.98	18.91	19.72	19.36	20.17	20.63
	8H	16.49	17.26	16.96	17.70	18.17	19.01	19.77	19.47	20.21	20.68
	12H	16.66	17.35	17.15	17.83	18.30	19.08	19.76	19.56	20.24	20.71
8H	4H	16.03	16.79	16.49	17.24	17.70	18.67	19.44	19.13	19.88	20.35
	6H	16.81	17.45	17.31	17.94	18.42	19.11	19.74	19.61	20.23	20.71
	8H	17.14	17.71	17.65	18.22	18.70	19.27	19.83	19.78	20.34	20.83
	12H	17.41	17.91	17.92	18.41	18.97	19.40	19.90	19.91	20.40	20.96
12H	4H	16.07	16.75	16.55	17.23	17.70	18.67	19.35	19.15	19.83	20.30
	6H	16.90	17.46	17.41	17.98	18.46	19.13	19.69	19.64	20.20	20.69
	8H	17.29	17.79	17.80	18.29	18.85	19.33	19.84	19.84	20.33	20.89