

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: P1061804

Luminaire Tested: S125RDRP-S850D930-X4F0-XX-UDD-BVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-87)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S850D930-X4F0-XX-UDD-BVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

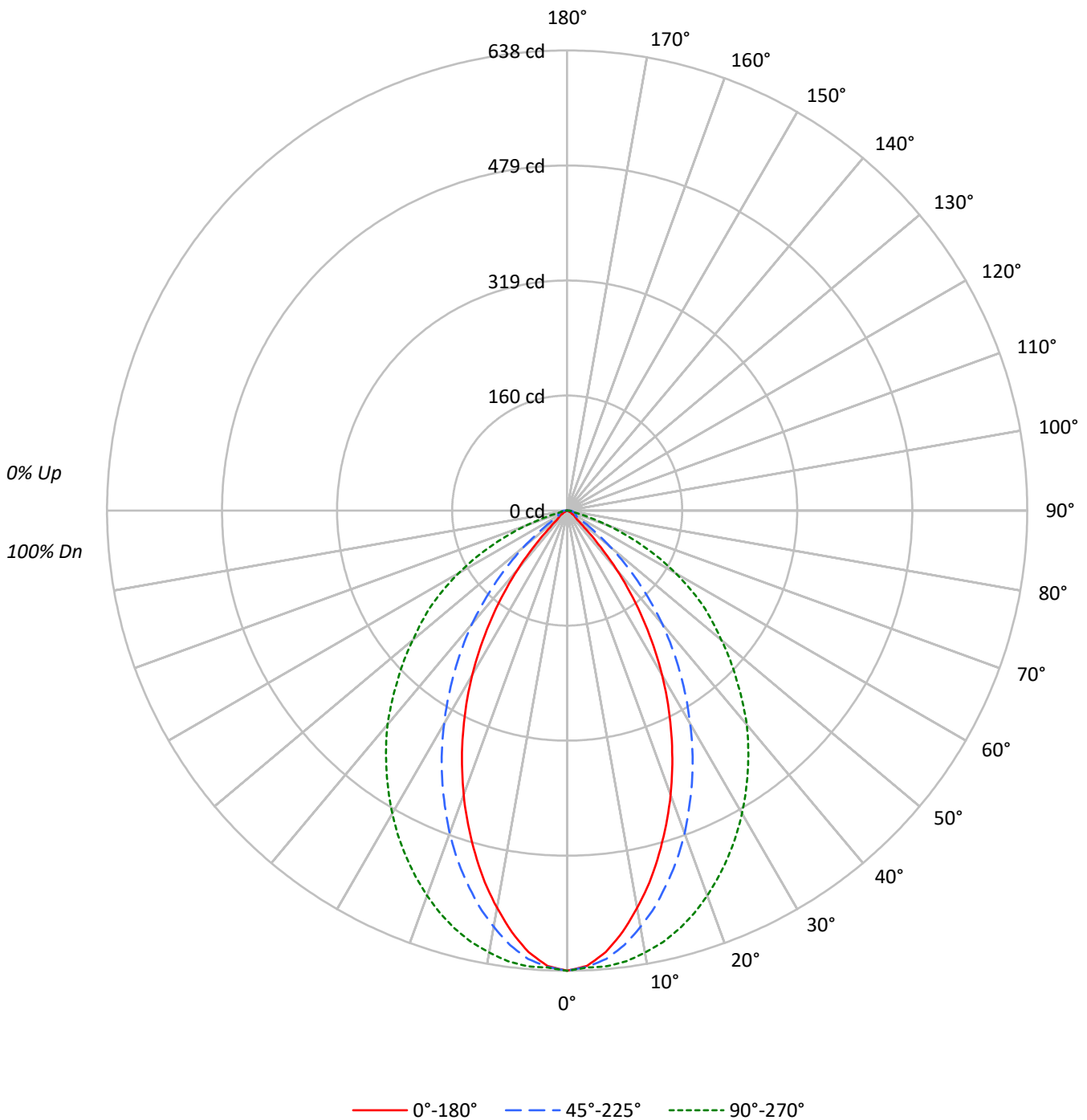
Lumens per Lamp: N/A
Luminaire Lumens: 820.6 lumens
Efficiency: N/A
Efficacy: 31.8 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4393	4393	4393
5°	4246	4312	4383
10°	3911	4098	4351
15°	3511	3814	4279
20°	3074	3488	4163
25°	2597	3116	4017
30°	2093	2711	3854
35°	1539	2285	3672
40°	961	1843	3482
45°	359	1347	3237
50°	168	842	2987
55°	122	349	2763
60°	87	185	2391
65°	51	218	1895
70°	48	254	1202
75°	64	250	375
80°	95	313	282
85°	190	498	371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3237 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	7.1
10°-20°	151.5	18.5
20°-30°	192.9	23.5
30°-40°	179.6	21.9
40°-50°	123.0	15.0
50°-60°	67.8	8.3
60°-70°	32.1	3.9
70°-80°	10.1	1.2
80°-90°	5.2	0.6
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°	402.9	49.1
0°-40°	582.5	71.0
0°-60°	773.3	94.2
0°-90°	820.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	820.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	614	622	624	629	634	57
15°	493	508	535	575	600	137
25°	342	363	410	476	529	156
35°	183	209	272	361	437	114
45°	37	62	138	245	332	35
55°	10	12	29	137	230	9
65°	3	4	13	50	116	4
75°	2	4	9	10	14	3
85°	2	6	6	6	5	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.0	638.0	638.0	638.0	638.0
2.5°	631.7	638.0	633.3	633.3	634.1
5°	614.4	622.3	623.9	628.6	634.1
7.5°	589.3	599.5	607.4	620.7	630.1
10°	559.4	572.0	586.1	608.1	622.3
12.5°	528.0	541.4	562.6	593.2	612.9
15°	492.6	508.4	535.1	575.1	600.3
17.5°	456.5	473.8	506.8	553.9	585.4
20°	419.6	437.6	476.1	528.8	568.1
22.5°	381.1	400.7	443.1	502.9	549.2
25°	341.8	363.0	410.1	476.1	528.8
27.5°	302.5	324.5	376.4	448.6	507.6
30°	263.2	286.0	341.0	420.4	484.8
32.5°	223.1	248.3	306.4	392.1	461.2
35°	183.1	209.0	271.9	361.4	436.9
37.5°	143.8	170.5	238.1	332.4	412.5
40°	106.9	133.6	205.1	303.3	387.4
42.5°	69.1	97.4	170.5	273.4	359.9
45°	36.9	62.1	138.3	245.1	332.4
47.5°	19.6	33.0	107.6	216.9	306.4
50°	15.7	18.1	78.6	188.6	278.9
52.5°	12.6	14.1	50.3	159.5	254.6
55°	10.2	11.8	29.1	136.7	230.2
57.5°	7.9	9.4	16.5	113.9	201.9
60°	6.3	7.1	13.4	91.1	173.6
62.5°	3.9	5.5	13.4	70.7	145.4
65°	3.1	3.9	13.4	50.3	116.3
67.5°	3.1	3.1	13.4	33.0	87.2
70°	2.4	2.4	12.6	21.2	59.7
72.5°	2.4	2.4	11.0	14.1	34.6
75°	2.4	3.9	9.4	10.2	14.1
77.5°	2.4	6.3	8.6	8.6	7.9
80°	2.4	6.3	7.9	7.1	7.1
82.5°	2.4	6.3	6.3	6.3	5.5
85°	2.4	5.5	6.3	5.5	4.7
87.5°	2.4	5.5	5.5	5.5	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	0.00	0.00	0.00	0.00	0.00	14.19	15.47	14.55	15.78	16.10
	3H	0.00	0.00	0.00	0.00	0.00	14.97	16.11	15.35	16.44	16.80
	4H	0.00	0.00	0.00	0.00	0.00	15.00	16.06	15.40	16.41	16.79
	6H	0.00	0.00	0.00	0.00	0.00	14.95	15.93	15.37	16.30	16.69
	8H	0.00	0.00	0.00	0.00	0.30	14.93	15.85	15.36	16.24	16.65
	12H	0.00	0.23	0.00	0.61	1.04	14.91	15.79	15.35	16.17	16.60
4H	2H	0.00	0.00	0.00	0.00	0.00	13.97	15.03	14.37	15.38	15.76
	3H	0.00	0.00	0.00	0.12	0.52	14.80	15.66	15.21	16.06	16.47
	4H	0.00	0.22	0.00	0.64	1.08	14.83	15.60	15.27	16.02	16.47
	6H	0.96	1.62	1.42	2.07	2.53	14.82	15.48	15.28	15.93	16.40
	8H	1.70	2.32	2.17	2.77	3.24	14.80	15.42	15.27	15.87	16.34
	12H	2.45	3.00	2.94	3.48	3.96	14.80	15.35	15.29	15.83	16.31
8H	4H	1.48	2.10	1.95	2.54	3.02	14.72	15.34	15.19	15.78	16.26
	6H	3.24	3.74	3.74	4.24	4.72	14.72	15.22	15.22	15.72	16.20
	8H	4.19	4.65	4.72	5.16	5.66	14.72	15.18	15.25	15.69	16.19
	12H	5.13	5.53	5.65	6.03	6.60	14.77	15.17	15.29	15.67	16.24
12H	4H	1.78	2.33	2.27	2.81	3.29	14.67	15.22	15.16	15.70	16.18
	6H	3.69	4.15	4.22	4.66	5.16	14.67	15.13	15.20	15.64	16.14
	8H	4.83	5.23	5.35	5.73	6.30	14.71	15.11	15.23	15.61	16.18