

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: P1061806

Luminaire Tested: S125RDRP-S850D930-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S850D930-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

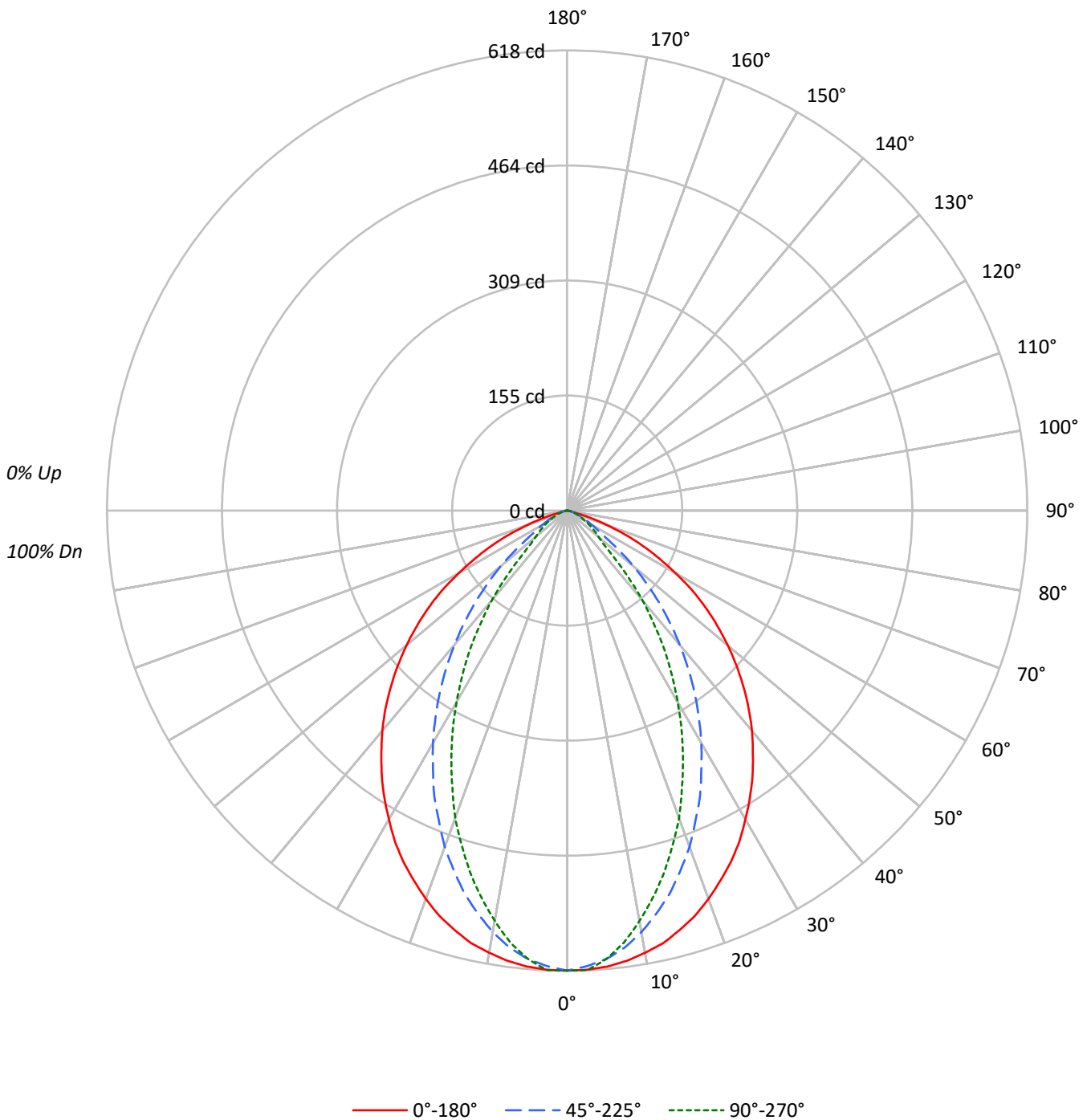
Lumens per Lamp: N/A
Luminaire Lumens: 893.5 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4254	4254	4254
5°	4249	4178	4178
10°	4215	4018	3913
15°	4158	3794	3587
20°	4067	3521	3221
25°	3954	3209	2797
30°	3807	2865	2360
35°	3649	2507	1914
40°	3471	2117	1418
45°	3264	1697	856
50°	3019	1245	589
55°	2724	763	490
60°	2313	519	390
65°	1830	396	306
70°	1154	284	254
75°	375	210	210
80°	123	155	186
85°	63	126	126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3264 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	6.4
10°-20°	150.9	16.9
20°-30°	198.5	22.2
30°-40°	195.0	21.8
40°-50°	147.6	16.5
50°-60°	89.5	10.0
60°-70°	42.2	4.7
70°-80°	11.0	1.2
80°-90°	1.7	0.2
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°	406.5	45.5
0°-40°	601.6	67.3
0°-60°	838.6	93.9
0°-90°	893.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	893.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	615	613	604	605	604	58
15°	583	568	532	512	503	164
25°	520	481	422	383	368	239
35°	434	376	298	246	228	271
45°	335	264	174	111	88	258
55°	227	155	64	43	41	202
65°	112	57	24	20	19	111
75°	14	9	8	8	8	22
85°	1	1	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	617.8	617.8	617.8	617.8	617.8
2.5°	617.1	617.1	612.3	617.8	617.8
5°	614.7	613.1	604.5	605.3	604.5
7.5°	610.0	606.8	591.9	588.0	584.9
10°	602.9	596.6	574.7	565.2	559.7
12.5°	595.1	584.1	554.2	540.9	532.3
15°	583.3	567.6	532.3	511.9	503.2
17.5°	570.7	548.0	506.4	482.0	471.0
20°	555.0	528.3	480.5	450.6	439.6
22.5°	537.8	506.4	450.6	417.6	402.7
25°	520.5	481.2	422.4	383.1	368.2
27.5°	500.9	456.1	390.2	349.3	332.9
30°	478.9	431.0	360.3	317.9	296.8
32.5°	456.9	405.1	328.9	282.6	261.4
35°	434.1	376.0	298.3	245.7	227.7
37.5°	409.8	348.6	266.9	212.0	190.8
40°	386.2	321.1	235.5	177.4	157.8
42.5°	361.1	293.6	204.1	143.7	121.7
45°	335.2	263.8	174.3	110.7	87.9
47.5°	308.5	237.1	144.5	81.6	65.9
50°	281.8	208.8	116.2	60.4	55.0
52.5°	254.4	181.3	87.9	50.2	47.9
55°	226.9	155.4	63.6	43.2	40.8
57.5°	198.6	127.2	47.9	36.9	34.5
60°	168.0	102.1	37.7	30.6	28.3
62.5°	139.7	80.1	30.6	25.1	23.6
65°	112.3	57.3	24.3	20.4	18.8
67.5°	84.0	38.5	18.8	15.7	15.7
70°	57.3	25.1	14.1	12.6	12.6
72.5°	34.5	14.9	10.2	10.2	10.2
75°	14.1	9.4	7.9	7.9	7.9
77.5°	4.7	5.5	5.5	6.3	6.3
80°	3.1	3.1	3.9	4.7	4.7
82.5°	1.6	2.4	2.4	3.1	3.1
85°	0.8	0.8	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.8	0.8
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	14.36	15.69	14.73	16.00	16.32	5.01	6.35	5.38	6.66	6.97
	3H	15.07	16.24	15.45	16.57	16.94	5.80	6.97	6.18	7.30	7.67
	4H	15.08	16.18	15.48	16.53	16.91	6.05	7.14	6.45	7.50	7.88
	6H	15.01	16.02	15.43	16.39	16.78	6.23	7.23	6.64	7.60	8.00
	8H	14.97	15.92	15.40	16.31	16.72	6.27	7.22	6.70	7.61	8.02
	12H	14.93	15.84	15.36	16.22	16.65	6.28	7.19	6.71	7.57	8.00
4H	2H	14.19	15.29	14.59	15.64	16.02	5.50	6.60	5.90	6.95	7.33
	3H	14.94	15.83	15.35	16.23	16.64	6.41	7.30	6.82	7.71	8.11
	4H	14.95	15.75	15.39	16.17	16.61	6.73	7.52	7.16	7.94	8.38
	6H	14.89	15.58	15.36	16.02	16.49	6.99	7.67	7.45	8.12	8.58
	8H	14.84	15.48	15.31	15.93	16.40	7.05	7.69	7.52	8.13	8.61
	12H	14.80	15.36	15.28	15.84	16.32	7.08	7.64	7.56	8.12	8.60
8H	4H	14.84	15.48	15.31	15.92	16.39	6.84	7.48	7.31	7.92	8.40
	6H	14.76	15.28	15.26	15.78	16.26	7.16	7.68	7.66	8.17	8.65
	8H	14.71	15.17	15.23	15.69	16.18	7.26	7.72	7.78	8.24	8.73
	12H	14.67	15.08	15.18	15.57	16.15	7.32	7.73	7.84	8.23	8.80
12H	4H	14.79	15.36	15.28	15.84	16.31	6.81	7.37	7.30	7.86	8.33
	6H	14.70	15.17	15.23	15.69	16.18	7.13	7.59	7.65	8.11	8.60
	8H	14.67	15.08	15.18	15.58	16.15	7.26	7.68	7.78	8.17	8.74