

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: P1061803

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-48)
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-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

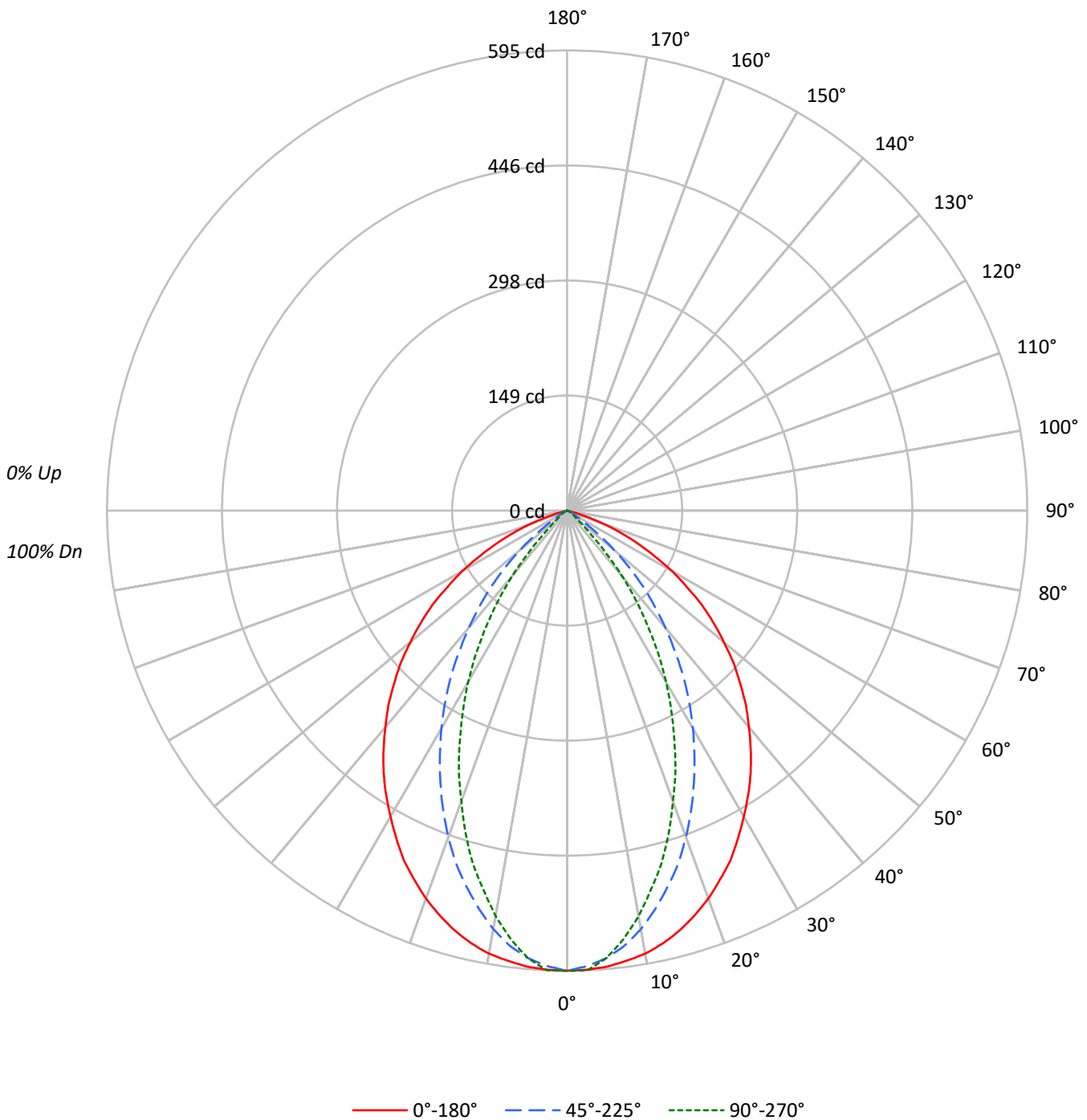
Lumens per Lamp: N/A
Luminaire Lumens: 768.7 lumens
Efficiency: N/A
Efficacy: 29.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	62	57	67	61	57	66	61	57	65	60	56	54
7	76	65	58	53	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4097	4097	4097
5°	4091	4015	4015
10°	4067	3842	3721
15°	4007	3587	3363
20°	3911	3290	2928
25°	3793	2946	2493
30°	3633	2584	2035
35°	3477	2204	1524
40°	3288	1778	988
45°	3081	1346	428
50°	2833	858	160
55°	2553	377	113
60°	2162	162	76
65°	1637	103	39
70°	996	48	16
75°	210	21	21
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3081 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	7.1
10°-20°	143.0	18.6
20°-30°	183.6	23.9
30°-40°	172.8	22.5
40°-50°	120.8	15.7
50°-60°	64.5	8.4
60°-70°	25.7	3.3
70°-80°	3.4	0.4
80°-90°	0.0	0.0
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°	381.4	49.6
0°-40°	554.2	72.1
0°-60°	739.6	96.2
0°-90°	768.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	768.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	592	590	581	582	581	56
15°	562	544	503	480	472	158
25°	499	455	388	345	328	229
35°	414	348	262	202	181	258
45°	316	237	138	67	44	244
55°	213	130	31	11	9	189
65°	100	40	6	3	2	100
75°	8	2	1	1	1	15
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	595.0	595.0	595.0	595.0	595.0
2.5°	594.2	595.0	589.5	594.2	595.0
5°	591.9	590.3	580.9	582.5	580.9
7.5°	587.2	583.3	567.6	562.1	558.9
10°	581.7	573.1	549.5	537.7	532.2
12.5°	573.1	560.5	527.5	509.5	501.6
15°	562.1	544.0	503.2	479.6	471.8
17.5°	548.7	525.2	478.1	449.0	437.2
20°	533.8	502.4	449.0	414.5	399.6
22.5°	516.5	480.4	419.2	380.7	365.8
25°	499.3	455.3	387.8	345.4	328.1
27.5°	478.1	429.4	356.4	310.9	292.0
30°	456.9	403.5	325.0	275.5	255.9
32.5°	435.7	376.0	293.6	238.6	219.0
35°	413.7	347.8	262.2	202.5	181.3
37.5°	390.1	319.5	228.4	168.0	146.0
40°	365.8	292.0	197.8	134.2	109.9
42.5°	342.3	264.5	167.2	101.3	74.6
45°	316.4	237.1	138.2	66.7	44.0
47.5°	292.0	210.4	108.3	38.5	22.8
50°	264.5	182.9	80.1	20.4	14.9
52.5°	238.6	156.2	53.4	13.3	11.8
55°	212.7	130.3	31.4	11.0	9.4
57.5°	182.9	105.2	17.3	8.6	7.1
60°	157.0	82.4	11.8	6.3	5.5
62.5°	127.2	60.4	8.6	4.7	3.9
65°	100.5	40.0	6.3	3.1	2.4
67.5°	74.6	23.6	3.9	1.6	1.6
70°	49.5	12.6	2.4	0.8	0.8
72.5°	25.9	5.5	1.6	0.8	0.8
75°	7.9	2.4	0.8	0.8	0.8
77.5°	0.0	0.8	0.0	0.0	0.8
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	13.84	15.11	14.21	15.42	15.73	0.00	0.00	0.00	0.00	0.00
	3H	14.43	15.54	14.81	15.87	16.24	0.00	0.00	0.00	0.00	0.00
	4H	14.39	15.43	14.80	15.78	16.16	0.00	0.00	0.00	0.00	0.00
	6H	14.31	15.25	14.72	15.62	16.02	0.00	0.00	0.00	0.00	0.00
	8H	14.26	15.15	14.69	15.55	15.95	0.00	0.00	0.00	0.00	0.00
	12H	14.22	15.07	14.65	15.45	15.88	0.00	0.00	0.00	0.00	0.00
4H	2H	13.62	14.65	14.02	15.00	15.39	0.00	0.00	0.00	0.00	0.00
	3H	14.21	15.05	14.62	15.45	15.85	0.00	0.00	0.00	0.00	0.00
	4H	14.16	14.90	14.60	15.32	15.77	0.00	0.00	0.00	0.00	0.00
	6H	14.07	14.71	14.54	15.16	15.63	0.00	0.00	0.00	0.00	0.00
	8H	14.01	14.61	14.48	15.05	15.53	0.00	0.00	0.00	0.00	0.00
	12H	13.96	14.48	14.45	14.97	15.44	0.00	0.00	0.00	0.00	0.00
8H	4H	14.01	14.61	14.48	15.05	15.53	0.00	0.00	0.00	0.00	0.00
	6H	13.91	14.39	14.41	14.89	15.37	0.00	0.00	0.00	0.00	0.00
	8H	13.84	14.27	14.36	14.79	15.28	0.00	0.00	0.00	0.00	0.00
	12H	13.79	14.17	14.31	14.67	15.24	0.00	0.00	0.00	0.00	0.00
12H	4H	13.96	14.48	14.45	14.97	15.44	0.00	0.00	0.00	0.00	0.00
	6H	13.84	14.27	14.36	14.79	15.28	0.00	0.00	0.00	0.00	0.00
	8H	13.79	14.17	14.31	14.67	15.24	0.00	0.00	0.00	0.00	0.00