

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: P1061809

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-46)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S850D930-X4F0-XX-UDD-WVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

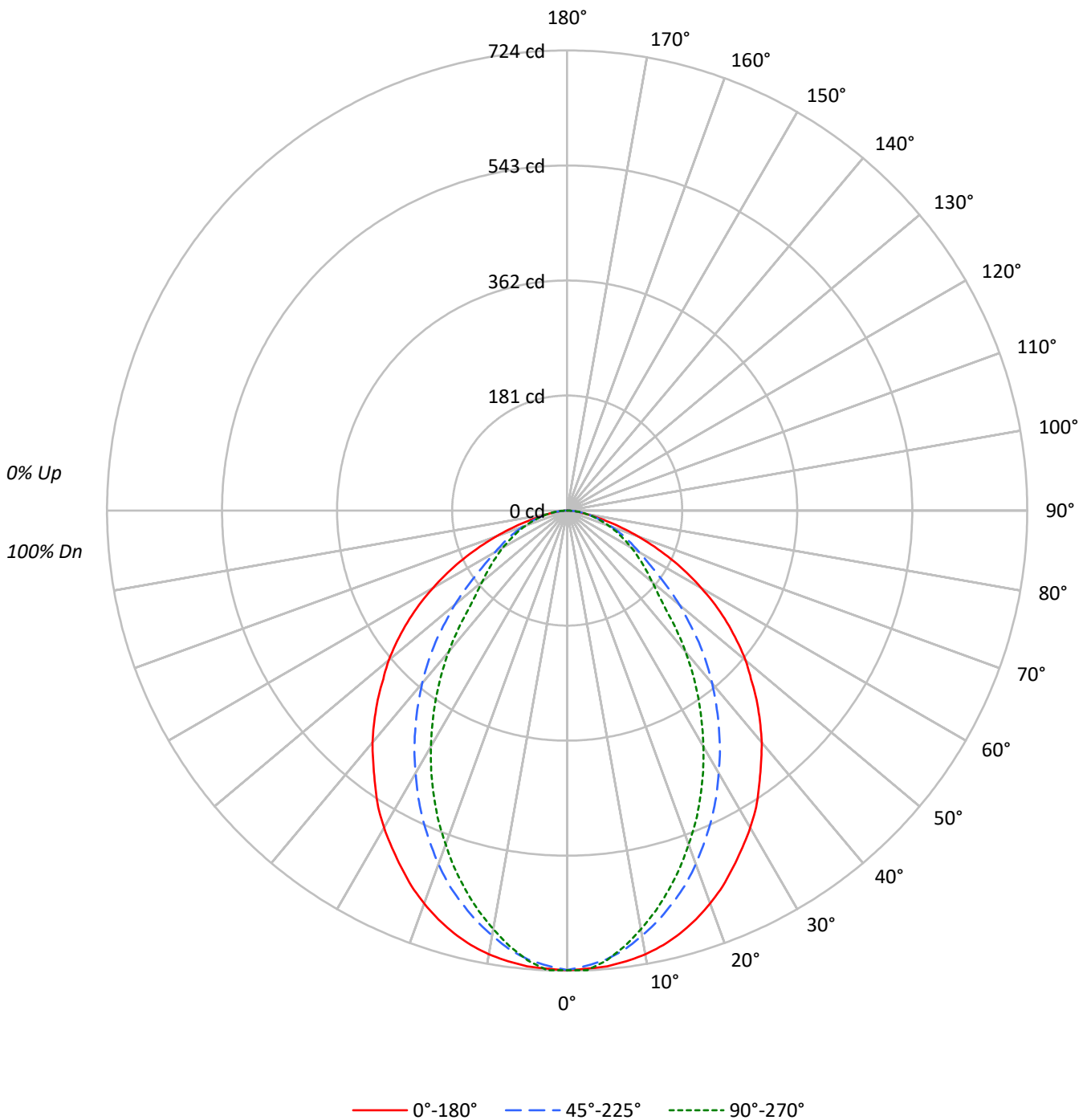
Lumens per Lamp: N/A
Luminaire Lumens: 1369.7 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1061809

CATALOG NUMBER: S125RDRP-S850D930-X4F0-XX-UDD-WVL-B

Luminous Intensity Polar Plot





TEST NUMBER: P1061809

CATALOG NUMBER: S125RDRP-S850D930-X4F0-XX-UDD-WVL-B

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	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36
9	61	48	41	35	60	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°	4978	4978	4978
5°	4976	4900	4911
10°	4956	4748	4676
15°	4908	4561	4404
20°	4821	4337	4095
25°	4700	4080	3769
30°	4581	3788	3408
35°	4428	3497	3022
40°	4283	3189	2604
45°	4105	2851	2132
50°	3927	2472	1867
55°	3684	2063	1725
60°	3361	1805	1611
65°	2942	1650	1496
70°	2386	1486	1391
75°	1713	1357	1296
80°	1182	1213	1213
85°	869	1051	1114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4105 cd/sqm



TEST NUMBER: P1061809

CATALOG NUMBER: S125RDRP-S850D930-X4F0-XX-UDD-WVL-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	4.9
10°-20°	181.8	13.3
20°-30°	251.3	18.3
30°-40°	267.7	19.5
40°-50°	235.1	17.2
50°-60°	178.3	13.0
60°-70°	115.8	8.5
70°-80°	57.4	4.2
80°-90°	15.0	1.1
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°	500.4	36.5
0°-40°	768.1	56.1
0°-60°	1181.5	86.3
0°-90°	1369.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1369.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	720	718	709	711	710	68
15°	688	673	640	625	618	194
25°	619	585	537	510	496	285
35°	527	478	416	378	360	330
45°	422	363	293	240	219	325
55°	307	246	172	148	144	274
65°	181	134	101	93	92	178
75°	64	56	51	50	49	72
85°	11	13	13	13	14	13
90°	0	0	0	0	0	



TEST NUMBER: P1061809

CATALOG NUMBER: S125RDRP-S850D930-X4F0-XX-UDD-WVL-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.0	723.0	723.0	723.0	723.0
2.5°	721.4	723.0	716.7	722.2	723.8
5°	719.9	718.3	708.9	711.2	710.5
7.5°	715.2	712.0	696.3	694.8	691.6
10°	708.9	701.0	679.1	673.6	668.8
12.5°	700.2	687.7	661.0	650.0	644.5
15°	688.5	672.8	639.8	624.9	617.8
17.5°	674.3	652.4	617.8	597.4	589.6
20°	657.9	632.0	591.9	568.4	558.9
22.5°	639.8	609.2	564.4	539.3	529.1
25°	618.6	584.8	537.0	509.5	496.1
27.5°	597.4	559.7	507.9	477.3	463.2
30°	576.2	533.0	476.5	443.5	428.6
32.5°	553.4	505.6	447.5	411.4	394.1
35°	526.8	478.1	416.1	378.4	359.5
37.5°	500.9	449.0	385.5	343.1	325.0
40°	476.5	421.6	354.8	308.5	289.7
42.5°	449.0	392.5	324.2	275.5	254.4
45°	421.6	362.7	292.8	240.2	219.0
47.5°	392.5	334.4	259.8	208.0	193.9
50°	366.6	305.4	230.8	183.7	174.3
52.5°	336.8	277.1	201.0	164.9	158.6
55°	306.9	246.5	171.9	148.4	143.7
57.5°	276.3	219.0	149.2	134.2	129.5
60°	244.1	190.8	131.1	119.3	117.0
62.5°	212.0	161.7	115.4	106.8	103.6
65°	180.6	134.2	101.3	93.4	91.8
67.5°	148.4	109.1	87.1	81.6	80.9
70°	118.5	88.7	73.8	70.7	69.1
72.5°	91.1	70.7	62.0	59.7	58.9
75°	64.4	56.5	51.0	49.5	48.7
77.5°	43.2	43.2	40.8	39.3	40.0
80°	29.8	31.4	30.6	30.6	30.6
82.5°	19.6	21.2	22.0	22.0	22.0
85°	11.0	12.6	13.3	13.3	14.1
87.5°	3.9	4.7	5.5	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1061809
 CATALOG NUMBER: S125RDRP-S850D930-X4F0-XX-UDD-WVL-B

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	16.13	17.62	16.49	17.93	18.25	12.37	13.86	12.73	14.17	14.49
	3H	17.44	18.78	17.82	19.10	19.47	13.95	15.29	14.33	15.62	15.98
	4H	17.81	19.06	18.21	19.41	19.79	14.56	15.81	14.96	16.16	16.54
	6H	17.99	19.14	18.40	19.51	19.90	15.03	16.18	15.44	16.55	16.94
	8H	18.02	19.12	18.45	19.51	19.91	15.19	16.29	15.62	16.68	17.08
	12H	18.04	19.09	18.47	19.47	19.90	15.30	16.35	15.73	16.74	17.16
4H	2H	16.24	17.49	16.64	17.84	18.22	13.03	14.28	13.43	14.63	15.01
	3H	17.73	18.77	18.14	19.17	19.57	14.81	15.85	15.23	16.25	16.65
	4H	18.20	19.14	18.64	19.55	19.99	15.53	16.47	15.97	16.88	17.32
	6H	18.49	19.30	18.95	19.74	20.20	16.12	16.93	16.58	17.38	17.84
	8H	18.56	19.32	19.02	19.76	20.23	16.33	17.08	16.79	17.53	18.00
	12H	18.60	19.27	19.08	19.75	20.23	16.48	17.16	16.96	17.64	18.11
8H	4H	18.29	19.04	18.75	19.49	19.96	15.84	16.60	16.31	17.05	17.51
	6H	18.65	19.28	19.15	19.77	20.25	16.55	17.18	17.05	17.67	18.15
	8H	18.77	19.33	19.28	19.84	20.33	16.83	17.39	17.34	17.90	18.39
	12H	18.85	19.35	19.36	19.84	20.41	17.06	17.55	17.57	18.05	18.61
12H	4H	18.28	18.96	18.76	19.44	19.91	15.87	16.55	16.35	17.02	17.50
	6H	18.65	19.21	19.17	19.73	20.21	16.60	17.16	17.12	17.67	18.16
	8H	18.81	19.31	19.32	19.80	20.37	16.94	17.43	17.45	17.93	18.49