

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: P1062208

Luminaire Tested: S125RDRP-H850D930-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1062208
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-H850D930-X4F0-XX-UDD-BVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

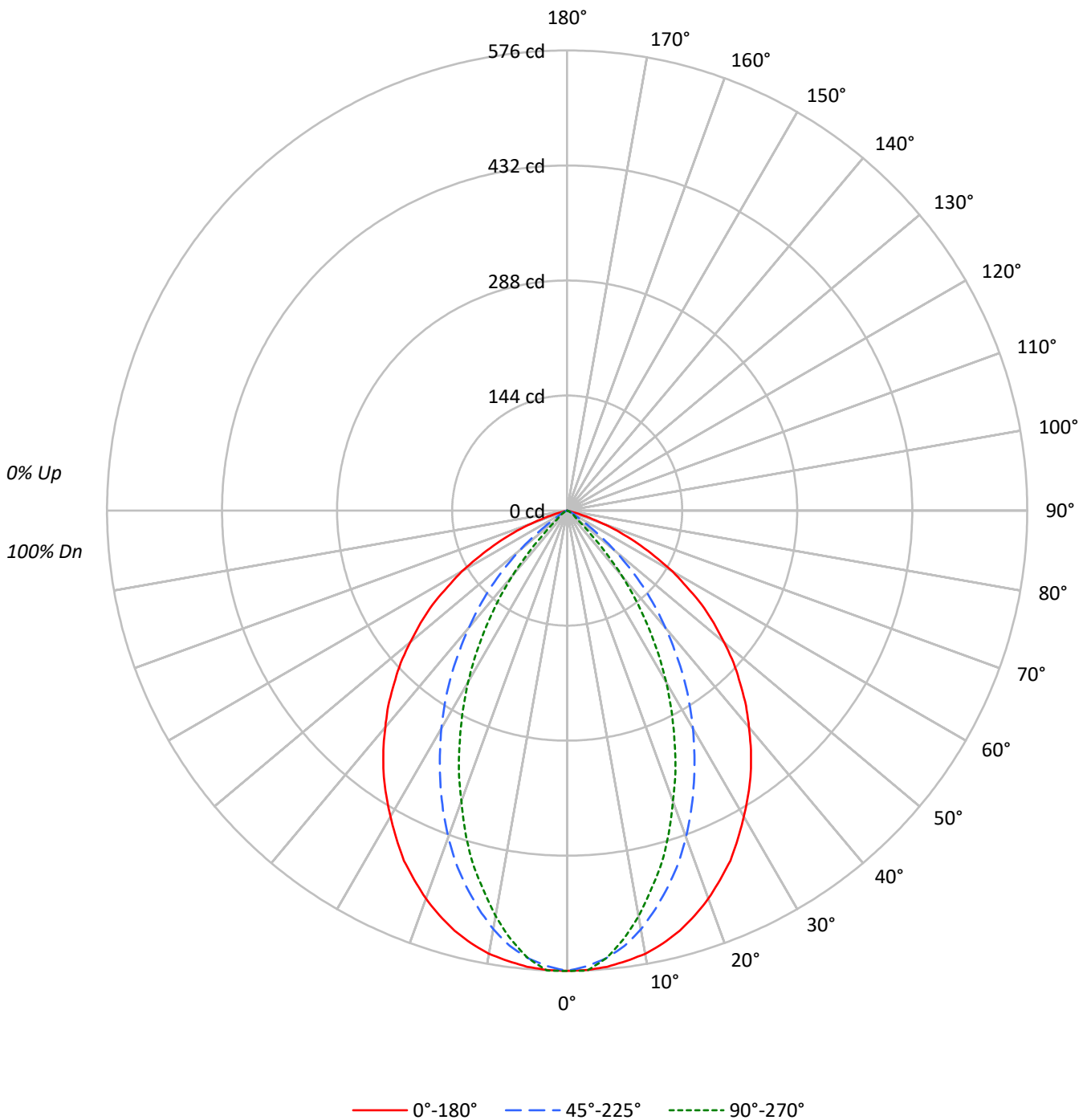
Lumens per Lamp: N/A
Luminaire Lumens: 744.4 lumens
Efficiency: N/A
Efficacy: 31.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.81 / 0.97
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.5
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°	3967	3967	3967
5°	3962	3888	3888
10°	3938	3720	3603
15°	3880	3474	3257
20°	3787	3186	2835
25°	3673	2853	2414
30°	3517	2502	1970
35°	3367	2134	1476
40°	3184	1722	956
45°	2983	1303	415
50°	2744	830	154
55°	2473	365	109
60°	2093	157	73
65°	1585	99	37
70°	964	46	16
75°	202	21	21
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2983 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	7.1
10°-20°	138.5	18.6
20°-30°	177.8	23.9
30°-40°	167.4	22.5
40°-50°	117.0	15.7
50°-60°	62.5	8.4
60°-70°	24.9	3.3
70°-80°	3.2	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°	369.4	49.6
0°-40°	536.7	72.1
0°-60°	716.2	96.2
0°-90°	744.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	744.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	573	572	562	564	562	54
15°	544	527	487	464	457	153
25°	484	441	376	334	318	222
35°	401	337	254	196	176	250
45°	306	230	134	65	43	236
55°	206	126	30	11	9	183
65°	97	39	6	3	2	97
75°	8	2	1	1	1	15
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	576.2	576.2	576.2	576.2	576.2
2.5°	575.5	576.2	570.9	575.5	576.2
5°	573.2	571.7	562.5	564.0	562.5
7.5°	568.6	564.8	549.6	544.3	541.2
10°	563.3	554.9	532.1	520.7	515.4
12.5°	554.9	542.8	510.8	493.4	485.8
15°	544.3	526.8	487.3	464.5	456.9
17.5°	531.4	508.6	462.9	434.8	423.4
20°	516.9	486.5	434.8	401.4	386.9
22.5°	500.2	465.2	405.9	368.7	354.2
25°	483.5	440.9	375.5	334.5	317.8
27.5°	462.9	415.8	345.1	301.0	282.8
30°	442.4	390.7	314.7	266.8	247.8
32.5°	421.9	364.1	284.3	231.1	212.1
35°	400.6	336.8	253.9	196.1	175.6
37.5°	377.8	309.4	221.2	162.7	141.4
40°	354.2	282.8	191.6	130.0	106.4
42.5°	331.4	256.2	161.9	98.1	72.2
45°	306.3	229.6	133.8	64.6	42.6
47.5°	282.8	203.7	104.9	37.2	22.0
50°	256.2	177.1	77.5	19.8	14.4
52.5°	231.1	151.3	51.7	12.9	11.4
55°	206.0	126.2	30.4	10.6	9.1
57.5°	177.1	101.9	16.7	8.4	6.8
60°	152.0	79.8	11.4	6.1	5.3
62.5°	123.1	58.5	8.4	4.6	3.8
65°	97.3	38.8	6.1	3.0	2.3
67.5°	72.2	22.8	3.8	1.5	1.5
70°	47.9	12.2	2.3	0.8	0.8
72.5°	25.1	5.3	1.5	0.8	0.8
75°	7.6	2.3	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	13.73	15.00	14.10	15.31	15.62	0.00	0.00	0.00	0.00	0.00
	3H	14.32	15.43	14.70	15.76	16.13	0.00	0.00	0.00	0.00	0.00
	4H	14.28	15.31	14.68	15.66	16.05	0.00	0.00	0.00	0.00	0.00
	6H	14.20	15.14	14.61	15.51	15.91	0.00	0.00	0.00	0.00	0.00
	8H	14.15	15.04	14.58	15.43	15.84	0.00	0.00	0.00	0.00	0.00
	12H	14.10	14.96	14.54	15.34	15.77	0.00	0.00	0.00	0.00	0.00
4H	2H	13.51	14.54	13.91	14.89	15.27	0.00	0.00	0.00	0.00	0.00
	3H	14.10	14.93	14.51	15.34	15.74	0.00	0.00	0.00	0.00	0.00
	4H	14.05	14.79	14.48	15.21	15.66	0.00	0.00	0.00	0.00	0.00
	6H	13.96	14.60	14.43	15.05	15.51	0.00	0.00	0.00	0.00	0.00
	8H	13.90	14.49	14.37	14.94	15.41	0.00	0.00	0.00	0.00	0.00
	12H	13.85	14.37	14.34	14.86	15.33	0.00	0.00	0.00	0.00	0.00
8H	4H	13.90	14.49	14.37	14.94	15.41	0.00	0.00	0.00	0.00	0.00
	6H	13.79	14.27	14.30	14.77	15.26	0.00	0.00	0.00	0.00	0.00
	8H	13.73	14.16	14.25	14.68	15.17	0.00	0.00	0.00	0.00	0.00
	12H	13.68	14.06	14.20	14.56	15.13	0.00	0.00	0.00	0.00	0.00
12H	4H	13.85	14.37	14.34	14.86	15.33	0.00	0.00	0.00	0.00	0.00
	6H	13.73	14.16	14.25	14.68	15.17	0.00	0.00	0.00	0.00	0.00
	8H	13.68	14.06	14.20	14.56	15.13	0.00	0.00	0.00	0.00	0.00