

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: P1059134

Luminaire Tested: S123RDRP-S1165D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1059134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1165D930-X4F0-XX-UDD-SVL-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

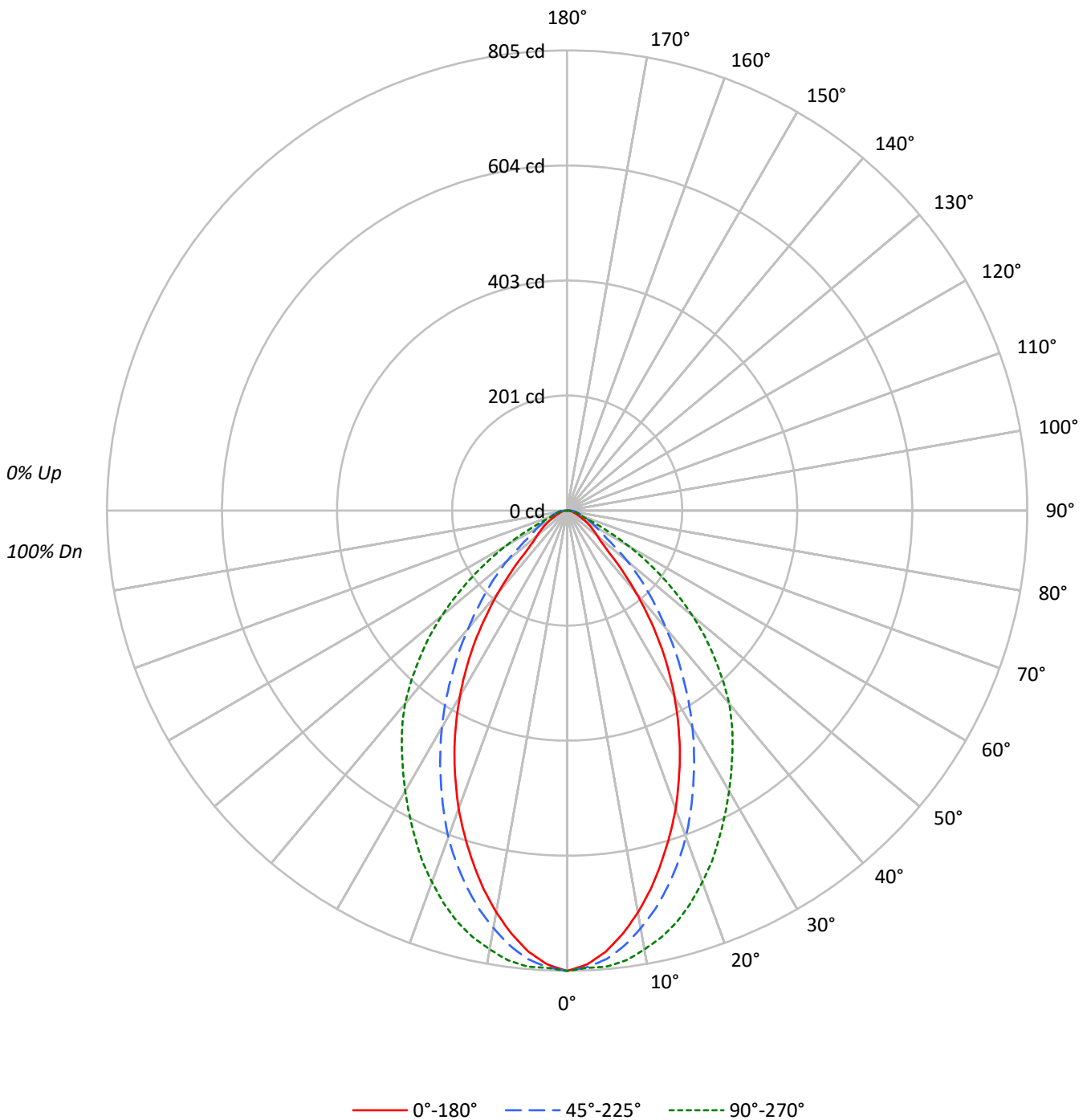
Lumens per Lamp: N/A
Luminaire Lumens: 1078.5 lumens
Efficiency: N/A
Efficacy: 25.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9456	9456	9456
5°	9132	9285	9437
10°	8509	8845	9293
15°	7746	8275	9047
20°	6934	7595	8639
25°	6047	6777	8164
30°	5085	5946	7683
35°	4044	5039	7229
40°	2883	4108	6758
45°	1719	3300	6051
50°	1268	2512	5239
55°	1058	1709	4164
60°	855	1409	2926
65°	686	1209	1567
70°	566	1051	968
75°	535	1012	907
80°	555	1116	872
85°	795	1590	1105

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6051 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	6.9
10°-20°	192.2	17.8
20°-30°	245.1	22.7
30°-40°	230.6	21.4
40°-50°	165.7	15.4
50°-60°	95.0	8.8
60°-70°	43.4	4.0
70°-80°	21.8	2.0
80°-90°	10.7	1.0
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°	511.3	47.4
0°-40°	741.9	68.8
0°-60°	1002.6	93.0
0°-90°	1078.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	775	790	788	794	801	72
15°	637	660	681	717	744	178
25°	467	488	523	580	630	213
35°	282	302	352	431	504	175
45°	104	126	199	293	364	87
55°	52	53	84	154	203	46
65°	25	34	44	48	56	25
75°	12	24	22	20	20	13
85°	6	12	12	11	8	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	805.3	805.3	805.3	805.3	805.3
2.5°	794.7	806.5	799.4	799.4	800.6
5°	774.7	790.0	787.7	793.5	800.6
7.5°	746.5	763.0	767.7	781.8	793.5
10°	713.6	732.4	741.8	764.1	779.4
12.5°	677.1	698.3	713.6	741.8	764.1
15°	637.2	659.5	680.7	717.1	744.2
17.5°	596.0	618.4	645.4	687.7	719.5
20°	554.9	577.2	607.8	652.5	691.3
22.5°	510.2	532.5	565.5	616.0	663.0
25°	466.7	487.9	523.1	579.6	630.1
27.5°	420.9	442.0	480.8	542.0	598.4
30°	375.0	396.2	438.5	504.3	566.6
32.5°	329.2	349.2	395.0	467.9	534.9
35°	282.1	302.1	351.5	431.4	504.3
37.5°	233.9	253.9	311.5	398.5	473.8
40°	188.1	210.4	268.0	365.6	440.9
42.5°	143.4	166.9	232.8	330.3	403.2
45°	103.5	125.8	198.7	292.7	364.4
47.5°	78.8	90.5	168.1	255.1	326.8
50°	69.4	70.5	137.5	221.0	286.8
52.5°	60.0	61.1	107.0	188.1	244.5
55°	51.7	52.9	83.5	154.0	203.4
57.5°	43.5	45.8	68.2	122.3	163.4
60°	36.4	41.1	60.0	92.9	124.6
62.5°	29.4	37.6	51.7	68.2	89.3
65°	24.7	34.1	43.5	48.2	56.4
67.5°	20.0	31.7	36.4	34.1	34.1
70°	16.5	28.2	30.6	28.2	28.2
72.5°	14.1	27.0	25.9	23.5	23.5
75°	11.8	23.5	22.3	20.0	20.0
77.5°	10.6	20.0	18.8	17.6	16.5
80°	8.2	16.5	16.5	15.3	12.9
82.5°	7.1	14.1	14.1	12.9	10.6
85°	5.9	11.8	11.8	10.6	8.2
87.5°	4.7	10.6	10.6	9.4	5.9
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	7.78	9.10	8.15	9.41	9.73	15.01	16.33	15.38	16.65	16.96
	3H	9.19	10.36	9.57	10.69	11.05	15.25	16.42	15.63	16.75	17.11
	4H	9.75	10.84	10.15	11.19	11.57	15.36	16.45	15.76	16.80	17.18
	6H	10.21	11.21	10.62	11.58	11.98	15.46	16.47	15.88	16.84	17.23
	8H	10.40	11.35	10.83	11.74	12.14	15.51	16.46	15.94	16.85	17.26
	12H	10.59	11.50	11.02	11.88	12.31	15.56	16.47	16.00	16.85	17.28
4H	2H	8.86	9.95	9.26	10.30	10.68	14.98	16.07	15.38	16.42	16.80
	3H	10.55	11.44	10.96	11.85	12.25	15.34	16.24	15.76	16.64	17.04
	4H	11.38	12.18	11.82	12.60	13.05	15.53	16.33	15.96	16.75	17.19
	6H	12.05	12.74	12.51	13.18	13.65	15.75	16.44	16.21	16.89	17.35
	8H	12.30	12.95	12.77	13.39	13.86	15.85	16.50	16.32	16.94	17.41
	12H	12.56	13.13	13.04	13.61	14.09	15.97	16.54	16.45	17.02	17.50
8H	4H	11.82	12.47	12.29	12.91	13.38	15.57	16.22	16.04	16.67	17.14
	6H	12.77	13.30	13.28	13.80	14.28	15.91	16.43	16.41	16.93	17.41
	8H	13.24	13.72	13.76	14.23	14.72	16.09	16.57	16.62	17.09	17.58
	12H	13.72	14.14	14.24	14.64	15.21	16.33	16.75	16.84	17.24	17.81
12H	4H	11.88	12.45	12.37	12.93	13.41	15.57	16.14	16.05	16.62	17.09
	6H	12.92	13.40	13.44	13.92	14.41	15.93	16.41	16.45	16.92	17.42
	8H	13.52	13.94	14.03	14.43	15.00	16.19	16.61	16.71	17.11	17.68