

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: P1058000

Luminaire Tested: S122RDRP-S485D930-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-59)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S485D930-X4F0-XX-UDD-SVL-S
Description: DEFINE 2 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

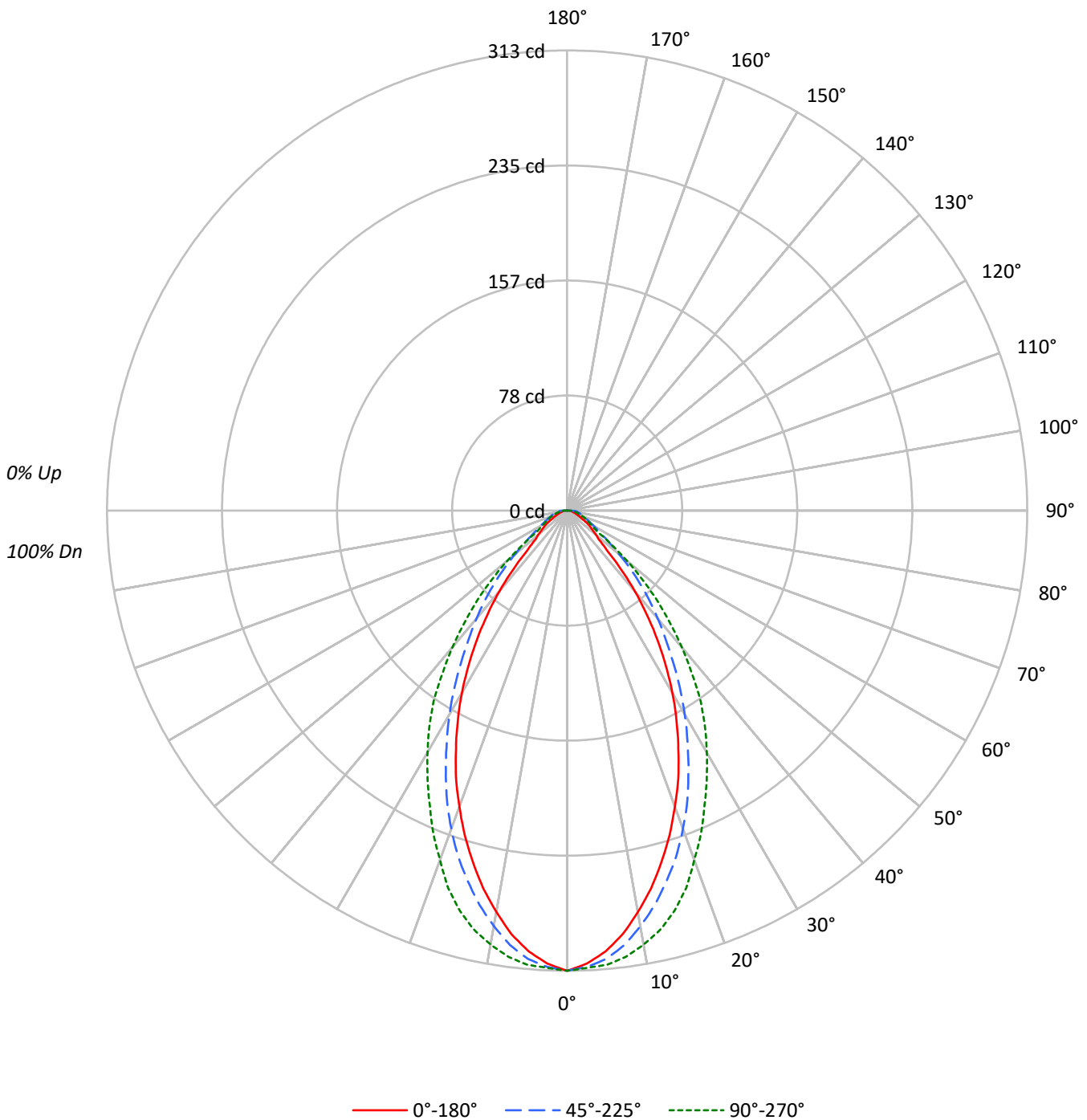
Lumens per Lamp: N/A
Luminaire Lumens: 377.6 lumens
Efficiency: N/A
Efficacy: 19.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	76	65	57	52	74	64	57	52	62	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	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5776	5776	5776
5°	5574	5670	5744
10°	5194	5378	5616
15°	4732	4986	5383
20°	4206	4524	4966
25°	3644	3974	4504
30°	3051	3409	4048
35°	2406	2823	3564
40°	1725	2310	2922
45°	1010	1824	2260
50°	729	1326	1524
55°	614	949	798
60°	491	768	683
65°	402	681	629
70°	345	653	593
75°	328	699	577
80°	372	861	616
85°	614	1355	847

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2260 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	7.6
10°-20°	73.5	19.5
20°-30°	90.3	23.9
30°-40°	79.8	21.1
40°-50°	51.0	13.5
50°-60°	24.9	6.6
60°-70°	14.8	3.9
70°-80°	9.5	2.5
80°-90°	5.2	1.4
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°	192.5	51.0
0°-40°	272.3	72.1
0°-60°	348.1	92.2
0°-90°	377.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	377.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	313	313	313	313	313	
5°	301	307	306	307	310	28
15°	248	255	261	273	282	69
25°	179	185	195	207	221	82
35°	107	113	125	143	158	66
45°	39	50	70	78	87	33
55°	19	25	30	28	25	17
65°	9	17	16	14	14	9
75°	5	10	10	9	8	5
85°	3	6	6	6	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	313.0	313.0	313.0	313.0	313.0
2.5°	308.4	314.2	310.7	310.7	311.3
5°	300.9	307.2	306.1	307.2	310.1
7.5°	290.5	296.8	298.0	302.6	306.1
10°	277.2	283.5	287.0	294.5	299.7
12.5°	263.3	269.7	274.9	284.7	292.2
15°	247.7	254.7	261.0	272.6	281.8
17.5°	231.6	238.5	246.6	258.1	269.1
20°	214.2	220.6	230.4	241.4	252.9
22.5°	197.5	203.3	213.7	224.1	237.9
25°	179.0	185.4	195.2	207.3	221.2
27.5°	161.1	167.5	177.3	191.1	205.6
30°	143.2	149.0	160.0	174.4	190.0
32.5°	124.7	130.5	142.6	158.2	174.4
35°	106.8	112.6	125.3	142.6	158.2
37.5°	88.9	95.3	109.7	125.9	139.2
40°	71.6	79.1	95.9	109.7	121.3
42.5°	54.3	64.7	82.6	94.1	103.4
45°	38.7	49.7	69.9	78.5	86.6
47.5°	29.5	38.1	57.7	64.1	69.3
50°	25.4	31.2	46.2	50.8	53.1
52.5°	21.9	27.7	37.0	38.7	37.5
55°	19.1	25.4	29.5	27.7	24.8
57.5°	16.2	23.7	24.3	20.8	21.4
60°	13.3	21.4	20.8	17.9	18.5
62.5°	11.0	19.6	17.9	16.2	16.2
65°	9.2	17.3	15.6	14.4	14.4
67.5°	7.5	15.6	13.9	12.7	12.7
70°	6.4	13.9	12.1	11.0	11.0
72.5°	5.8	12.1	11.0	9.8	9.8
75°	4.6	10.4	9.8	8.7	8.1
77.5°	4.0	8.7	8.7	8.1	6.9
80°	3.5	7.5	8.1	6.9	5.8
82.5°	3.5	6.9	6.9	6.4	4.6
85°	2.9	5.8	6.4	5.8	4.0
87.5°	1.7	5.2	5.2	4.6	2.9
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	8.13	9.41	8.49	9.72	10.04	7.65	8.93	8.02	9.24	9.56
	3H	9.31	10.44	9.69	10.77	11.14	9.21	10.35	9.59	10.68	11.05
	4H	9.73	10.80	10.14	11.15	11.53	9.90	10.96	10.30	11.31	11.69
	6H	10.08	11.05	10.49	11.43	11.82	10.54	11.52	10.96	11.89	12.28
	8H	10.28	11.20	10.71	11.59	12.00	10.83	11.76	11.26	12.15	12.55
	12H	10.50	11.38	10.93	11.77	12.20	11.14	12.03	11.58	12.41	12.84
4H	2H	8.63	9.69	9.03	10.04	10.43	8.25	9.31	8.65	9.66	10.05
	3H	10.28	11.15	10.69	11.55	11.96	10.05	10.92	10.46	11.33	11.73
	4H	11.04	11.82	11.47	12.24	12.69	10.89	11.68	11.33	12.10	12.54
	6H	11.64	12.32	12.10	12.77	13.23	11.75	12.43	12.21	12.87	13.34
	8H	11.94	12.58	12.41	13.02	13.50	12.14	12.77	12.61	13.22	13.69
	12H	12.26	12.82	12.74	13.30	13.78	12.57	13.13	13.06	13.62	14.09
8H	4H	11.46	12.09	11.93	12.54	13.01	11.35	11.99	11.82	12.44	12.91
	6H	12.40	12.93	12.91	13.42	13.90	12.46	12.98	12.96	13.48	13.96
	8H	12.95	13.42	13.47	13.93	14.43	13.04	13.51	13.56	14.02	14.52
	12H	13.52	13.93	14.03	14.43	15.00	13.71	14.12	14.22	14.62	15.19
12H	4H	11.53	12.09	12.01	12.57	13.05	11.44	12.00	11.92	12.48	12.96
	6H	12.59	13.06	13.11	13.57	14.06	12.64	13.11	13.16	13.63	14.12
	8H	13.28	13.69	13.79	14.19	14.76	13.36	13.77	13.87	14.27	14.84