

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: P1057847

Luminaire Tested: S122RDRP-S1005D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057847
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-S1005D935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

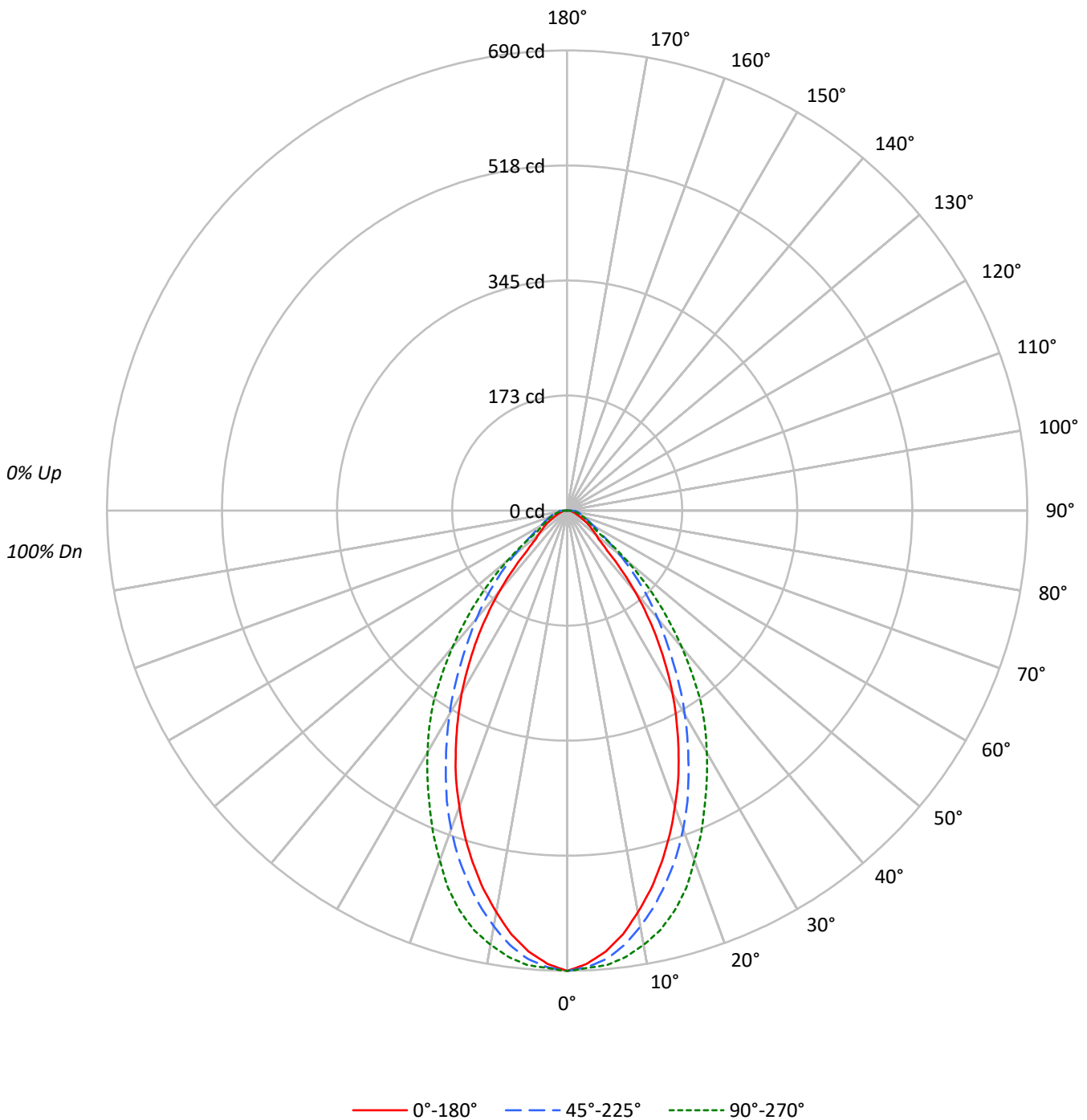
Lumens per Lamp: N/A
Luminaire Lumens: 832.8 lumens
Efficiency: N/A
Efficacy: 19.9 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	12738	12738	12738
5°	12292	12503	12670
10°	11456	11861	12385
15°	10438	10998	11873
20°	9278	9979	10955
25°	8038	8765	9932
30°	6731	7517	8928
35°	5307	6226	7862
40°	3803	5092	6444
45°	2226	4021	4984
50°	1608	2925	3364
55°	1351	2091	1763
60°	1081	1694	1506
65°	891	1502	1388
70°	755	1441	1306
75°	727	1547	1269
80°	808	1891	1350
85°	1355	2964	1884

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4984 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	7.6
10°-20°	162.0	19.5
20°-30°	199.2	23.9
30°-40°	176.1	21.1
40°-50°	112.4	13.5
50°-60°	54.8	6.6
60°-70°	32.7	3.9
70°-80°	20.8	2.5
80°-90°	11.5	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°	424.5	51.0
0°-40°	600.6	72.1
0°-60°	767.8	92.2
0°-90°	832.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	832.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	664	678	675	678	684	62
15°	546	562	576	601	622	152
25°	395	409	430	457	488	181
35°	236	248	276	315	349	146
45°	85	110	154	173	191	72
55°	42	56	65	61	55	38
65°	20	38	34	32	32	20
75°	10	23	22	19	18	11
85°	6	13	14	13	9	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	690.3	690.3	690.3	690.3	690.3
2.5°	680.1	692.9	685.2	685.2	686.5
5°	663.6	677.6	675.0	677.6	684.0
7.5°	640.6	654.7	657.2	667.4	675.0
10°	611.4	625.4	633.0	649.6	661.0
12.5°	580.8	594.8	606.3	627.9	644.5
15°	546.4	561.7	575.7	601.2	621.5
17.5°	510.7	526.0	543.9	569.3	593.5
20°	472.5	486.5	508.2	532.4	557.9
22.5°	435.6	448.3	471.3	494.2	524.7
25°	394.8	408.8	430.5	457.2	487.8
27.5°	355.3	369.4	391.0	421.6	453.4
30°	315.9	328.6	352.8	384.6	419.0
32.5°	275.1	287.8	314.6	349.0	384.6
35°	235.6	248.4	276.4	314.6	349.0
37.5°	196.1	210.2	242.0	277.7	307.0
40°	157.9	174.5	211.4	242.0	267.5
42.5°	119.7	142.6	182.1	207.6	228.0
45°	85.3	109.5	154.1	173.2	191.0
47.5°	65.0	84.1	127.4	141.4	152.8
50°	56.0	68.8	101.9	112.1	117.2
52.5°	48.4	61.1	81.5	85.3	82.8
55°	42.0	56.0	65.0	61.1	54.8
57.5°	35.7	52.2	53.5	45.9	47.1
60°	29.3	47.1	45.9	39.5	40.8
62.5°	24.2	43.3	39.5	35.7	35.7
65°	20.4	38.2	34.4	31.8	31.8
67.5°	16.6	34.4	30.6	28.0	28.0
70°	14.0	30.6	26.7	24.2	24.2
72.5°	12.7	26.7	24.2	21.7	21.7
75°	10.2	22.9	21.7	19.1	17.8
77.5°	8.9	19.1	19.1	17.8	15.3
80°	7.6	16.6	17.8	15.3	12.7
82.5°	7.6	15.3	15.3	14.0	10.2
85°	6.4	12.7	14.0	12.7	8.9
87.5°	3.8	11.5	11.5	10.2	6.4
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	10.87	12.15	11.23	12.46	12.77	10.40	11.68	10.76	11.99	12.31
	3H	12.05	13.18	12.43	13.51	13.88	11.96	13.10	12.34	13.43	13.79
	4H	12.47	13.54	12.88	13.89	14.27	12.64	13.70	13.04	14.05	14.44
	6H	12.82	13.80	13.23	14.17	14.56	13.29	14.27	13.70	14.64	15.03
	8H	13.01	13.94	13.44	14.33	14.74	13.58	14.50	14.01	14.89	15.30
	12H	13.23	14.12	13.67	14.50	14.93	13.89	14.78	14.33	15.16	15.59
4H	2H	11.37	12.43	11.77	12.78	13.17	11.00	12.06	11.40	12.41	12.80
	3H	13.02	13.89	13.43	14.30	14.70	12.80	13.67	13.21	14.07	14.48
	4H	13.78	14.56	14.21	14.98	15.43	13.64	14.42	14.07	14.84	15.28
	6H	14.38	15.06	14.84	15.51	15.97	14.49	15.17	14.95	15.62	16.08
	8H	14.68	15.32	15.15	15.76	16.23	14.88	15.52	15.35	15.96	16.44
	12H	14.99	15.56	15.48	16.04	16.51	15.32	15.88	15.80	16.36	16.84
8H	4H	14.20	14.83	14.67	15.28	15.75	14.09	14.73	14.56	15.18	15.65
	6H	15.15	15.67	15.65	16.17	16.65	15.20	15.72	15.70	16.22	16.70
	8H	15.69	16.16	16.22	16.68	17.17	15.78	16.25	16.30	16.76	17.26
	12H	16.26	16.67	16.77	17.17	17.74	16.45	16.86	16.96	17.36	17.93
12H	4H	14.27	14.83	14.75	15.31	15.79	14.18	14.74	14.66	15.22	15.70
	6H	15.33	15.80	15.85	16.31	16.81	15.39	15.86	15.91	16.37	16.86
	8H	16.02	16.44	16.54	16.93	17.50	16.10	16.51	16.61	17.01	17.58