

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: P1057850

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-58)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S1005D935-X4F0-XX-UDD-WVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

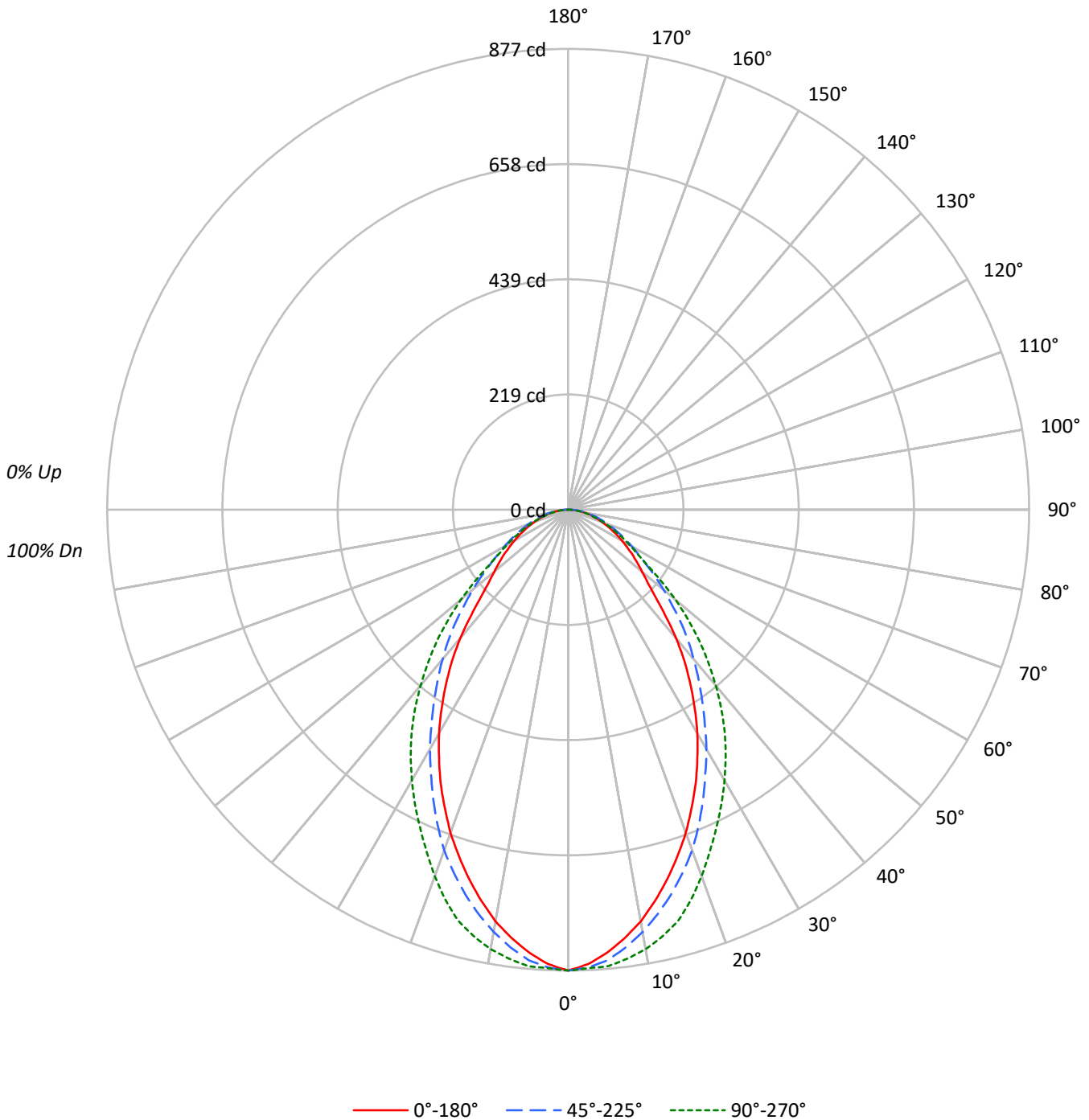
Lumens per Lamp: N/A
Luminaire Lumens: 1428.2 lumens
Efficiency: N/A
Efficacy: 34.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 1.05 / 1.05
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	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					100			
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89					87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	79	84	80	78					76				
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68					66				
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61					59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54					52				
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49					47				
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44					43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41					39				
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37					36				
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34					33				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16185	16185	16185
5°	15680	15939	16152
10°	14907	15289	15910
15°	13909	14469	15466
20°	12848	13547	14572
25°	11689	12363	13580
30°	10470	11201	12667
35°	9119	10008	11700
40°	7696	8954	10517
45°	6112	7907	9201
50°	5262	6798	7636
55°	4790	5816	5855
60°	4370	5167	4978
65°	4004	4667	4392
70°	3706	4327	3917
75°	3451	4085	3451
80°	3252	3921	3114
85°	3239	4044	2689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9201 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	5.7
10°-20°	214.0	15.0
20°-30°	281.7	19.7
30°-40°	283.2	19.8
40°-50°	229.5	16.1
50°-60°	158.1	11.1
60°-70°	103.5	7.2
70°-80°	57.7	4.0
80°-90°	19.5	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°	576.7	40.4
0°-40°	859.9	60.2
0°-60°	1247.5	87.4
0°-90°	1428.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1428.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	846	863	860	864	872	79
15°	728	746	757	785	810	204
25°	574	589	607	634	667	263
35°	405	424	444	484	519	253
45°	234	261	303	330	353	185
55°	149	166	181	185	182	133
65°	92	110	107	102	101	91
75°	48	60	57	51	48	52
85°	15	20	19	16	13	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.1	877.1	877.1	877.1	877.1
2.5°	865.6	880.9	872.0	872.0	873.3
5°	846.5	863.1	860.5	864.3	872.0
7.5°	822.3	840.2	840.2	851.6	861.8
10°	795.6	813.4	816.0	833.8	849.1
12.5°	762.5	780.3	788.0	810.9	831.2
15°	728.1	746.0	757.4	785.4	809.6
17.5°	691.2	709.0	724.3	753.6	777.8
20°	654.3	670.9	689.9	715.4	742.1
22.5°	613.6	631.4	649.2	673.4	703.9
25°	574.1	589.4	607.2	633.9	667.0
27.5°	532.1	548.6	565.2	597.0	631.4
30°	491.4	507.9	525.7	558.8	594.5
32.5°	448.1	465.9	483.7	520.6	557.6
35°	404.8	423.9	444.3	483.7	519.4
37.5°	362.8	383.2	407.3	448.1	478.6
40°	319.5	341.2	371.7	407.3	436.6
42.5°	273.7	300.4	337.3	367.9	394.6
45°	234.2	261.0	303.0	329.7	352.6
47.5°	204.9	226.6	267.3	290.2	309.3
50°	183.3	199.9	236.8	253.3	266.0
52.5°	165.5	182.0	207.5	219.0	222.8
55°	148.9	165.5	180.8	184.6	182.0
57.5°	132.4	150.2	159.1	155.3	155.3
60°	118.4	137.5	140.0	134.9	134.9
62.5°	104.4	123.5	123.5	117.1	117.1
65°	91.7	109.5	106.9	101.8	100.6
67.5°	80.2	96.7	92.9	87.8	86.6
70°	68.7	84.0	80.2	73.8	72.6
72.5°	58.6	72.6	67.5	62.4	59.8
75°	48.4	59.8	57.3	50.9	48.4
77.5°	39.5	48.4	45.8	40.7	38.2
80°	30.6	38.2	36.9	31.8	29.3
82.5°	22.9	29.3	28.0	24.2	20.4
85°	15.3	20.4	19.1	16.5	12.7
87.5°	7.6	14.0	12.7	11.5	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	16.40	17.84	16.77	18.16	18.47	16.76	18.20	17.13	18.52	18.83
	3H	17.95	19.24	18.32	19.56	19.93	18.11	19.40	18.49	19.73	20.09
	4H	18.52	19.72	18.92	20.07	20.45	18.59	19.80	18.99	20.15	20.53
	6H	18.95	20.06	19.36	20.43	20.82	18.95	20.06	19.36	20.43	20.82
	8H	19.10	20.16	19.53	20.55	20.96	19.06	20.12	19.49	20.51	20.91
	12H	19.22	20.23	19.65	20.61	21.04	19.14	20.15	19.57	20.53	20.96
4H	2H	16.99	18.20	17.39	18.55	18.93	17.28	18.48	17.68	18.83	19.21
	3H	18.81	19.81	19.22	20.21	20.61	18.85	19.85	19.26	20.25	20.65
	4H	19.56	20.46	19.99	20.87	21.31	19.45	20.35	19.89	20.77	21.21
	6H	20.14	20.93	20.60	21.37	21.83	19.93	20.72	20.39	21.16	21.62
	8H	20.35	21.09	20.82	21.53	22.00	20.10	20.83	20.56	21.28	21.74
	12H	20.52	21.17	21.01	21.65	22.13	20.22	20.87	20.70	21.35	21.82
8H	4H	19.84	20.57	20.31	21.02	21.49	19.75	20.49	20.22	20.93	21.40
	6H	20.60	21.20	21.10	21.70	22.17	20.37	20.98	20.87	21.47	21.95
	8H	20.92	21.46	21.44	21.98	22.47	20.62	21.16	21.14	21.67	22.16
	12H	21.21	21.69	21.72	22.18	22.75	20.83	21.31	21.34	21.80	22.37
12H	4H	19.86	20.51	20.34	20.99	21.46	19.79	20.44	20.27	20.92	21.39
	6H	20.66	21.20	21.17	21.71	22.20	20.45	20.99	20.96	21.50	21.99
	8H	21.06	21.54	21.57	22.03	22.60	20.77	21.25	21.28	21.74	22.31