

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: P1058270

Luminaire Tested: S122RDRP-H1005D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1058270
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-H1005D950-X4F0-XX-UDD-SVL-S
Description: DEFINE 2 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

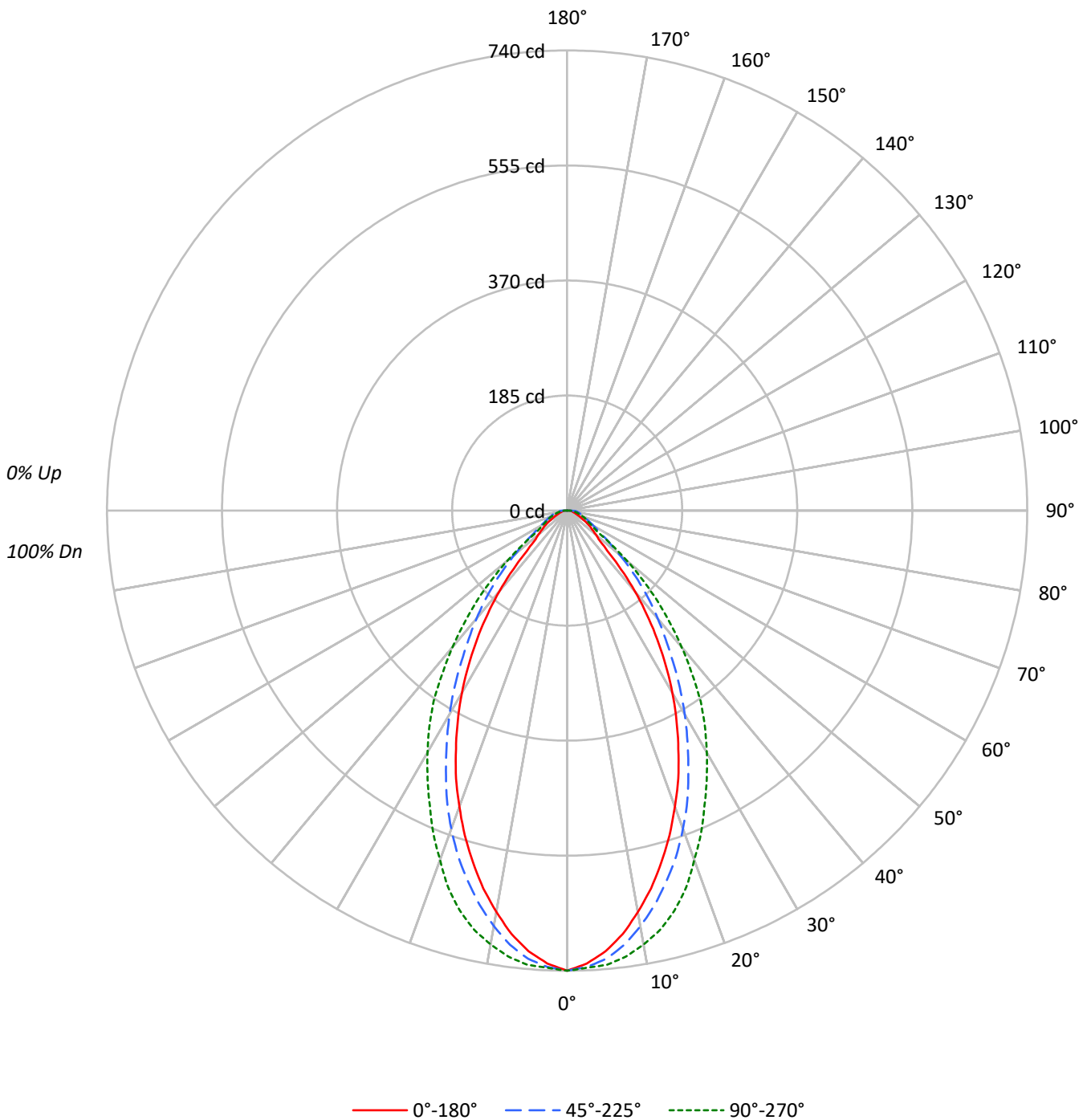
Lumens per Lamp: N/A
Luminaire Lumens: 892.6 lumens
Efficiency: N/A
Efficacy: 24.5 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.5
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	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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54					54			
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	45	66	56	49	44	55	49	44	54	48	44	53	48	44	42					42			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13653	13653	13653
5°	13174	13401	13579
10°	12278	12713	13275
15°	11187	11787	12727
20°	9946	10696	11741
25°	8616	9394	10644
30°	7215	8056	9569
35°	5688	6672	8425
40°	4078	5458	6906
45°	2388	4311	5344
50°	1725	3135	3606
55°	1448	2239	1888
60°	1159	1812	1613
65°	952	1611	1489
70°	809	1548	1397
75°	777	1654	1362
80°	871	2030	1456
85°	1440	3176	2032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5344 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	7.6
10°-20°	173.7	19.5
20°-30°	213.5	23.9
30°-40°	188.7	21.1
40°-50°	120.5	13.5
50°-60°	58.8	6.6
60°-70°	35.0	3.9
70°-80°	22.3	2.5
80°-90°	12.3	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°	455.0	51.0
0°-40°	643.7	72.1
0°-60°	822.9	92.2
0°-90°	892.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	892.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	711	726	724	726	733	66
15°	586	602	617	644	666	163
25°	423	438	461	490	523	194
35°	252	266	296	337	374	157
45°	92	117	165	186	205	77
55°	45	60	70	66	59	40
65°	22	41	37	34	34	22
75°	11	25	23	20	19	12
85°	7	14	15	14	10	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.9	739.9	739.9	739.9	739.9
2.5°	729.0	742.6	734.4	734.4	735.8
5°	711.2	726.2	723.5	726.2	733.1
7.5°	686.7	701.7	704.4	715.3	723.5
10°	655.3	670.3	678.5	696.2	708.5
12.5°	622.5	637.5	649.8	673.0	690.8
15°	585.6	602.0	617.0	644.3	666.2
17.5°	547.4	563.8	582.9	610.2	636.1
20°	506.5	521.5	544.7	570.6	597.9
22.5°	466.9	480.5	505.1	529.7	562.4
25°	423.2	438.2	461.4	490.1	522.8
27.5°	380.9	395.9	419.1	451.9	486.0
30°	338.6	352.2	378.1	412.3	449.1
32.5°	294.9	308.5	337.2	374.0	412.3
35°	252.5	266.2	296.2	337.2	374.0
37.5°	210.2	225.2	259.4	297.6	329.0
40°	169.3	187.0	226.6	259.4	286.7
42.5°	128.3	152.9	195.2	222.5	244.4
45°	91.5	117.4	165.2	185.7	204.8
47.5°	69.6	90.1	136.5	151.5	163.8
50°	60.1	73.7	109.2	120.1	125.6
52.5°	51.9	65.5	87.4	91.5	88.7
55°	45.0	60.1	69.6	65.5	58.7
57.5°	38.2	56.0	57.3	49.1	50.5
60°	31.4	50.5	49.1	42.3	43.7
62.5°	25.9	46.4	42.3	38.2	38.2
65°	21.8	41.0	36.9	34.1	34.1
67.5°	17.7	36.9	32.8	30.0	30.0
70°	15.0	32.8	28.7	25.9	25.9
72.5°	13.7	28.7	25.9	23.2	23.2
75°	10.9	24.6	23.2	20.5	19.1
77.5°	9.6	20.5	20.5	19.1	16.4
80°	8.2	17.7	19.1	16.4	13.7
82.5°	8.2	16.4	16.4	15.0	10.9
85°	6.8	13.7	15.0	13.7	9.6
87.5°	4.1	12.3	12.3	10.9	6.8
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	11.11	12.39	11.48	12.70	13.02	10.63	11.91	11.00	12.22	12.54
	3H	12.29	13.43	12.67	13.76	14.12	12.19	13.33	12.57	13.66	14.02
	4H	12.72	13.78	13.12	14.13	14.51	12.88	13.94	13.28	14.29	14.67
	6H	13.06	14.04	13.48	14.41	14.81	13.53	14.50	13.94	14.87	15.27
	8H	13.26	14.19	13.69	14.58	14.98	13.81	14.74	14.25	15.13	15.54
	12H	13.48	14.36	13.91	14.75	15.18	14.13	15.02	14.57	15.40	15.83
4H	2H	11.62	12.68	12.02	13.03	13.41	11.23	12.29	11.64	12.64	13.03
	3H	13.26	14.14	13.67	14.54	14.94	13.03	13.91	13.44	14.31	14.71
	4H	14.03	14.81	14.46	15.23	15.67	13.87	14.66	14.31	15.08	15.52
	6H	14.63	15.31	15.09	15.75	16.22	14.73	15.41	15.19	15.86	16.33
	8H	14.93	15.56	15.40	16.01	16.48	15.12	15.76	15.59	16.20	16.68
	12H	15.24	15.80	15.73	16.29	16.76	15.56	16.12	16.05	16.61	17.08
8H	4H	14.44	15.08	14.91	15.53	16.00	14.33	14.97	14.80	15.42	15.89
	6H	15.39	15.91	15.89	16.41	16.89	15.44	15.96	15.95	16.46	16.94
	8H	15.94	16.41	16.46	16.92	17.41	16.02	16.49	16.54	17.01	17.50
	12H	16.50	16.92	17.02	17.41	17.98	16.69	17.11	17.21	17.60	18.17
12H	4H	14.51	15.08	15.00	15.56	16.03	14.41	14.98	14.90	15.46	15.94
	6H	15.57	16.04	16.09	16.56	17.05	15.63	16.10	16.15	16.61	17.10
	8H	16.27	16.68	16.78	17.18	17.75	16.34	16.75	16.85	17.25	17.82