

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: P1057865

Luminaire Tested: S122RDRP-S1005D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1057865
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-S1005D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

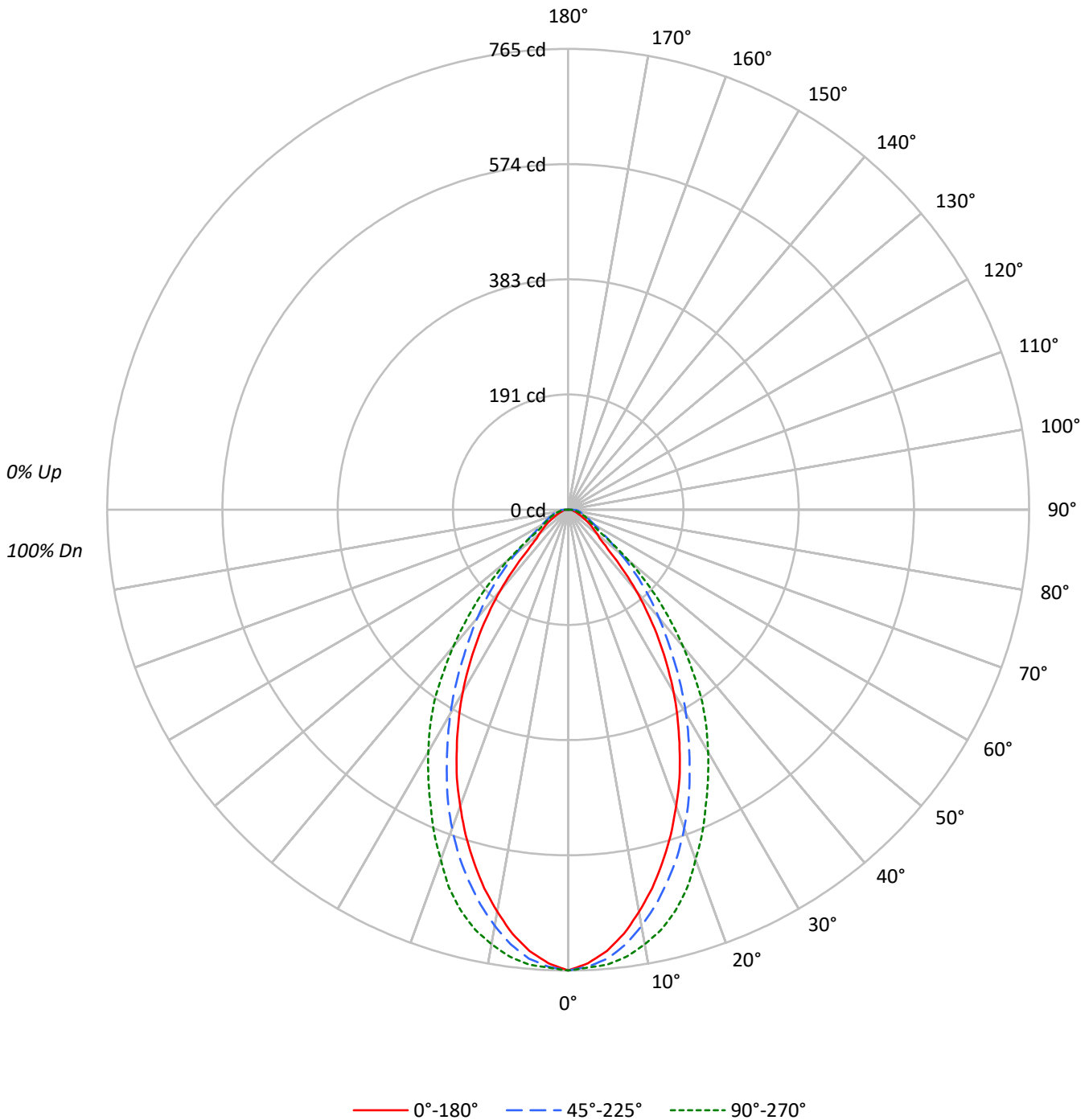
Lumens per Lamp: N/A
Luminaire Lumens: 922.7 lumens
Efficiency: N/A
Efficacy: 22.1 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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°	14114	14114	14114
5°	13620	13855	14037
10°	12693	13142	13723
15°	11565	12186	13157
20°	10282	11057	12137
25°	8908	9712	11005
30°	7457	8329	9893
35°	5882	6898	8711
40°	4215	5644	7140
45°	2469	4457	5524
50°	1783	3241	3726
55°	1499	2316	1953
60°	1199	1875	1668
65°	987	1664	1541
70°	836	1597	1446
75°	806	1711	1412
80°	903	2104	1498
85°	1503	3282	2096

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5524 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	7.6
10°-20°	179.5	19.5
20°-30°	220.7	23.9
30°-40°	195.1	21.1
40°-50°	124.5	13.5
50°-60°	60.7	6.6
60°-70°	36.2	3.9
70°-80°	23.1	2.5
80°-90°	12.7	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°	470.3	51.0
0°-40°	665.4	72.1
0°-60°	850.7	92.2
0°-90°	922.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	922.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	735	751	748	751	758	68
15°	605	622	638	666	689	169
25°	438	453	477	507	540	200
35°	261	275	306	349	387	162
45°	95	121	171	192	212	80
55°	47	62	72	68	61	42
65°	23	42	38	35	35	23
75°	11	25	24	21	20	12
85°	7	14	16	14	10	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.9	764.9	764.9	764.9	764.9
2.5°	753.6	767.7	759.2	759.2	760.7
5°	735.3	750.8	748.0	750.8	757.8
7.5°	709.8	725.4	728.2	739.5	748.0
10°	677.4	692.9	701.4	719.7	732.4
12.5°	643.5	659.0	671.7	695.7	714.1
15°	605.4	622.4	637.9	666.1	688.7
17.5°	565.9	582.8	602.6	630.8	657.6
20°	523.6	539.1	563.1	589.9	618.1
22.5°	482.6	496.8	522.2	547.6	581.4
25°	437.5	453.0	477.0	506.6	540.5
27.5°	393.7	409.3	433.2	467.1	502.4
30°	350.0	364.1	390.9	426.2	464.3
32.5°	304.8	318.9	348.6	386.7	426.2
35°	261.1	275.2	306.2	348.6	386.7
37.5°	217.3	232.9	268.1	307.6	340.1
40°	175.0	193.3	234.3	268.1	296.4
42.5°	132.7	158.1	201.8	230.0	252.6
45°	94.6	121.4	170.8	191.9	211.7
47.5°	72.0	93.1	141.1	156.6	169.3
50°	62.1	76.2	112.9	124.2	129.8
52.5°	53.6	67.7	90.3	94.6	91.7
55°	46.6	62.1	72.0	67.7	60.7
57.5°	39.5	57.9	59.3	50.8	52.2
60°	32.5	52.2	50.8	43.7	45.2
62.5°	26.8	48.0	43.7	39.5	39.5
65°	22.6	42.3	38.1	35.3	35.3
67.5°	18.3	38.1	33.9	31.0	31.0
70°	15.5	33.9	29.6	26.8	26.8
72.5°	14.1	29.6	26.8	24.0	24.0
75°	11.3	25.4	24.0	21.2	19.8
77.5°	9.9	21.2	21.2	19.8	16.9
80°	8.5	18.3	19.8	16.9	14.1
82.5°	8.5	16.9	16.9	15.5	11.3
85°	7.1	14.1	15.5	14.1	9.9
87.5°	4.2	12.7	12.7	11.3	7.1
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	11.23	12.51	11.59	12.82	13.14	10.75	12.03	11.11	12.34	12.66
	3H	12.40	13.54	12.78	13.87	14.24	12.31	13.45	12.69	13.78	14.14
	4H	12.83	13.89	13.24	14.24	14.63	12.99	14.06	13.40	14.41	14.79
	6H	13.18	14.16	13.59	14.53	14.92	13.64	14.62	14.06	14.99	15.38
	8H	13.38	14.30	13.81	14.69	15.10	13.93	14.86	14.36	15.25	15.65
	12H	13.60	14.48	14.03	14.86	15.29	14.25	15.13	14.68	15.52	15.95
4H	2H	11.73	12.79	12.13	13.14	13.53	11.35	12.41	11.75	12.76	13.15
	3H	13.37	14.25	13.79	14.65	15.06	13.15	14.02	13.56	14.43	14.83
	4H	14.14	14.92	14.57	15.34	15.79	13.99	14.78	14.43	15.20	15.64
	6H	14.74	15.42	15.20	15.87	16.33	14.85	15.53	15.31	15.97	16.44
	8H	15.04	15.68	15.51	16.12	16.59	15.24	15.87	15.71	16.32	16.79
	12H	15.35	15.92	15.84	16.40	16.87	15.67	16.24	16.16	16.72	17.19
8H	4H	14.56	15.19	15.03	15.64	16.11	14.45	15.09	14.92	15.53	16.00
	6H	15.50	16.03	16.01	16.52	17.00	15.56	16.08	16.06	16.58	17.06
	8H	16.05	16.52	16.57	17.03	17.53	16.14	16.60	16.66	17.12	17.61
	12H	16.62	17.03	17.13	17.53	18.10	16.81	17.22	17.32	17.72	18.29
12H	4H	14.63	15.19	15.11	15.67	16.15	14.53	15.10	15.02	15.58	16.05
	6H	15.69	16.16	16.21	16.67	17.16	15.74	16.21	16.26	16.73	17.22
	8H	16.38	16.79	16.89	17.29	17.86	16.45	16.87	16.97	17.36	17.93