

Scaled data based on original data using
LM-79-2019 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: S122RDR-S1005D950-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
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: S122RDR-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

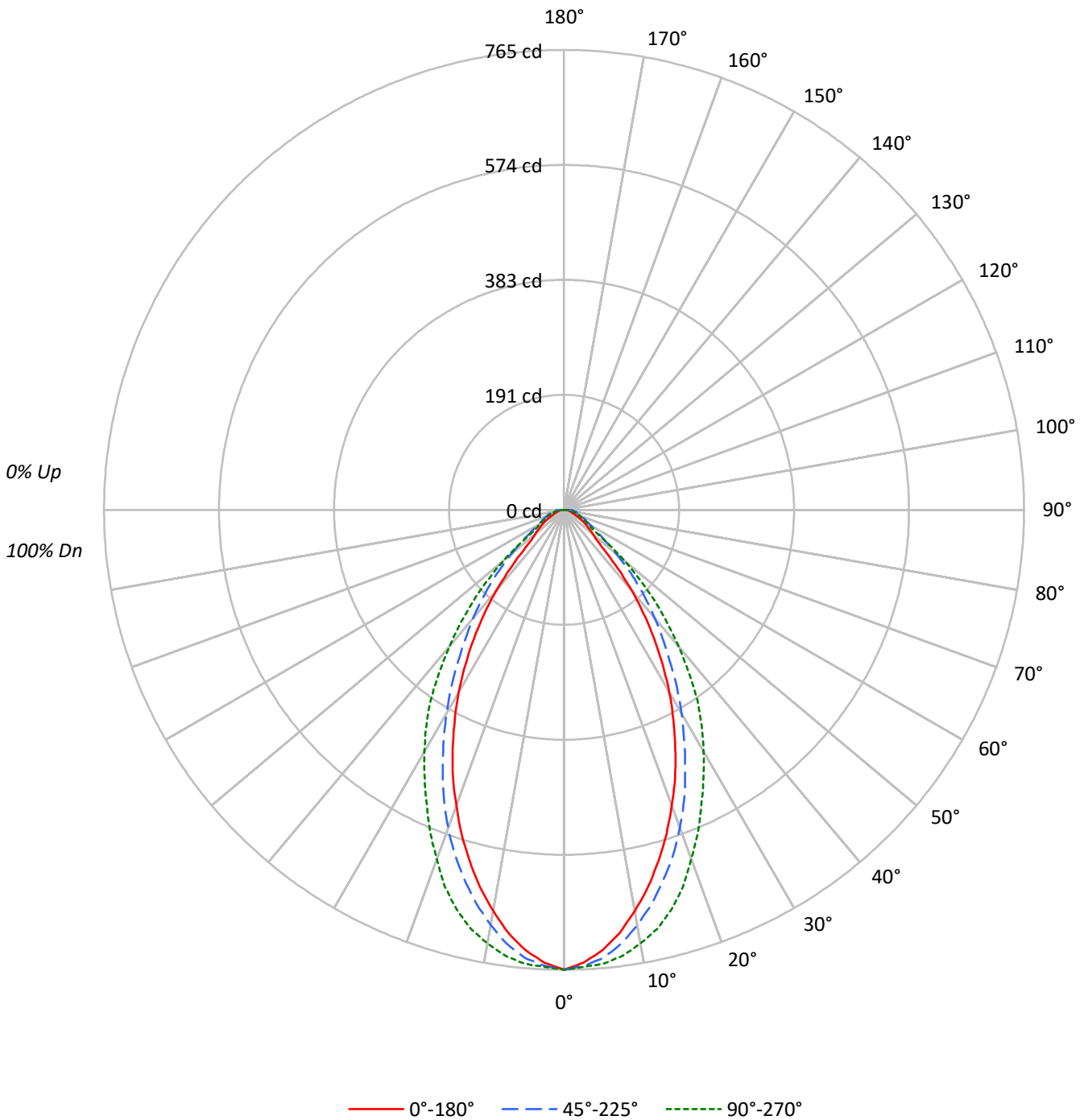
Lumens per Lamp: N/A
Luminaire Lumens: 922.7 lumens
Efficiency: N/A
Efficacy: 22.1 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (Ain): 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

(END OF REPORT)