

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: P1057829

Luminaire Tested: S122RDR-S1005D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057829
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-S1005D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

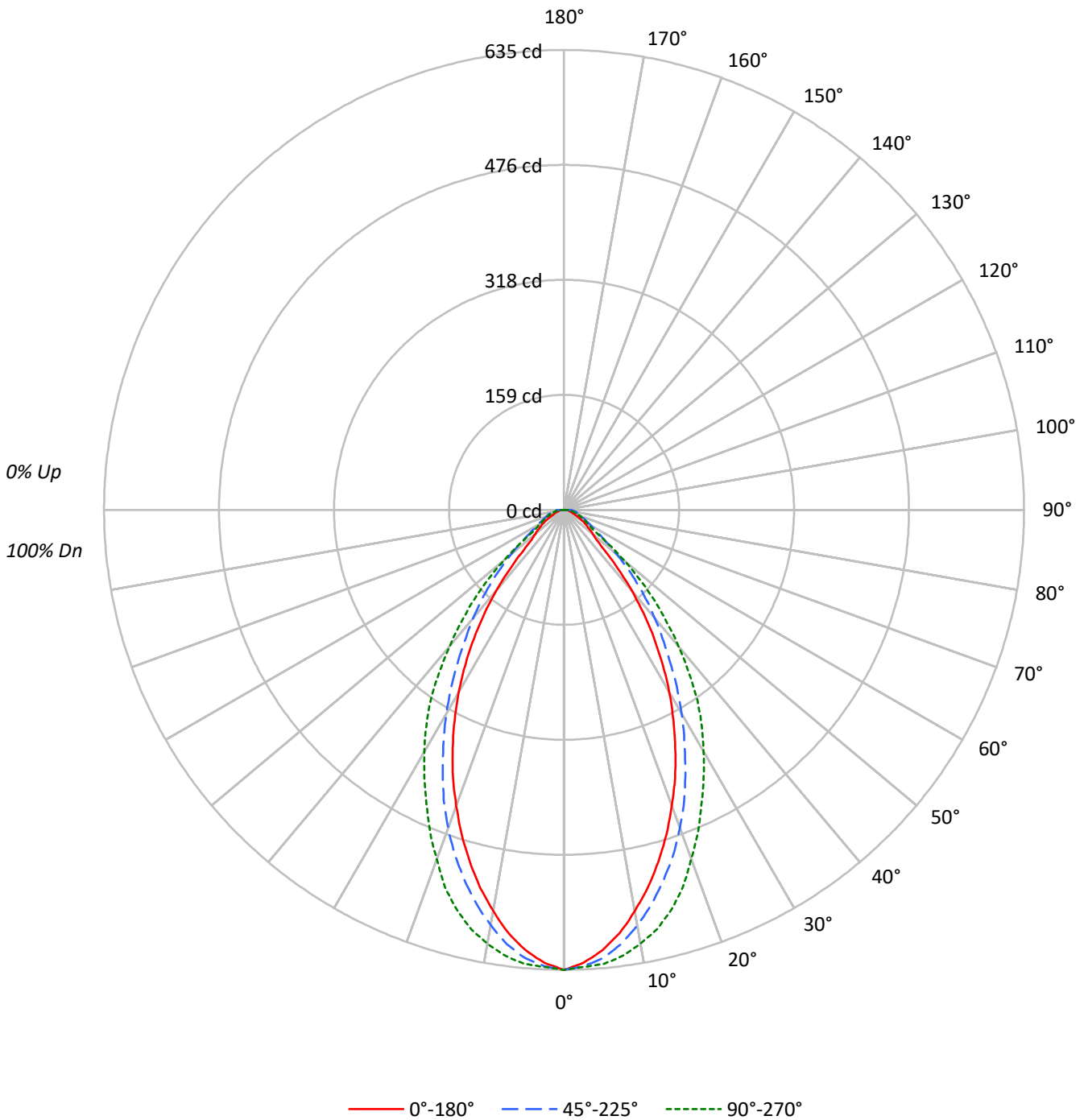
Lumens per Lamp: N/A
Luminaire Lumens: 766.2 lumens
Efficiency: N/A
Efficacy: 18.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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	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°	11719	11719	11719
5°	11308	11505	11656
10°	10540	10913	11396
15°	9603	10119	10925
20°	8538	9182	10080
25°	7397	8065	9138
30°	6192	6916	8214
35°	4884	5728	7233
40°	3500	4685	5928
45°	2049	3700	4588
50°	1481	2690	3095
55°	1245	1924	1621
60°	996	1557	1384
65°	816	1380	1279
70°	696	1327	1203
75°	670	1419	1169
80°	744	1743	1243
85°	1249	2731	1736

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4588 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	7.6
10°-20°	149.1	19.5
20°-30°	183.2	23.9
30°-40°	162.0	21.1
40°-50°	103.4	13.5
50°-60°	50.4	6.6
60°-70°	30.0	3.9
70°-80°	19.2	2.5
80°-90°	10.6	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°	390.6	51.0
0°-40°	552.6	72.1
0°-60°	706.4	92.2
0°-90°	766.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	766.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	610	623	621	623	629	57
15°	503	517	530	553	572	140
25°	363	376	396	421	449	166
35°	217	228	254	289	321	135
45°	78	101	142	159	176	66
55°	39	52	60	56	50	35
65°	19	35	32	29	29	19
75°	9	21	20	18	16	10
85°	6	12	13	12	8	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	635.1	635.1	635.1	635.1	635.1
2.5°	625.8	637.5	630.5	630.5	631.6
5°	610.5	623.4	621.1	623.4	629.3
7.5°	589.4	602.3	604.7	614.1	621.1
10°	562.5	575.4	582.4	597.6	608.2
12.5°	534.4	547.3	557.8	577.7	593.0
15°	502.7	516.8	529.7	553.1	571.9
17.5°	469.9	484.0	500.4	523.8	546.1
20°	434.8	447.6	467.6	489.8	513.3
22.5°	400.8	412.5	433.6	454.7	482.8
25°	363.3	376.2	396.1	420.7	448.8
27.5°	326.9	339.8	359.8	387.9	417.2
30°	290.6	302.3	324.6	353.9	385.5
32.5°	253.1	264.8	289.4	321.1	353.9
35°	216.8	228.5	254.3	289.4	321.1
37.5°	180.5	193.4	222.7	255.5	282.4
40°	145.3	160.5	194.5	222.7	246.1
42.5°	110.2	131.2	167.6	191.0	209.8
45°	78.5	100.8	141.8	159.4	175.8
47.5°	59.8	77.3	117.2	130.1	140.6
50°	51.6	63.3	93.7	103.1	107.8
52.5°	44.5	56.2	75.0	78.5	76.2
55°	38.7	51.6	59.8	56.2	50.4
57.5°	32.8	48.0	49.2	42.2	43.4
60°	27.0	43.4	42.2	36.3	37.5
62.5°	22.3	39.8	36.3	32.8	32.8
65°	18.7	35.2	31.6	29.3	29.3
67.5°	15.2	31.6	28.1	25.8	25.8
70°	12.9	28.1	24.6	22.3	22.3
72.5°	11.7	24.6	22.3	19.9	19.9
75°	9.4	21.1	19.9	17.6	16.4
77.5°	8.2	17.6	17.6	16.4	14.1
80°	7.0	15.2	16.4	14.1	11.7
82.5°	7.0	14.1	14.1	12.9	9.4
85°	5.9	11.7	12.9	11.7	8.2
87.5°	3.5	10.5	10.5	9.4	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)