

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: P1057856

Luminaire Tested: S122RDR-S1005D940-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057856
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-S1005D940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

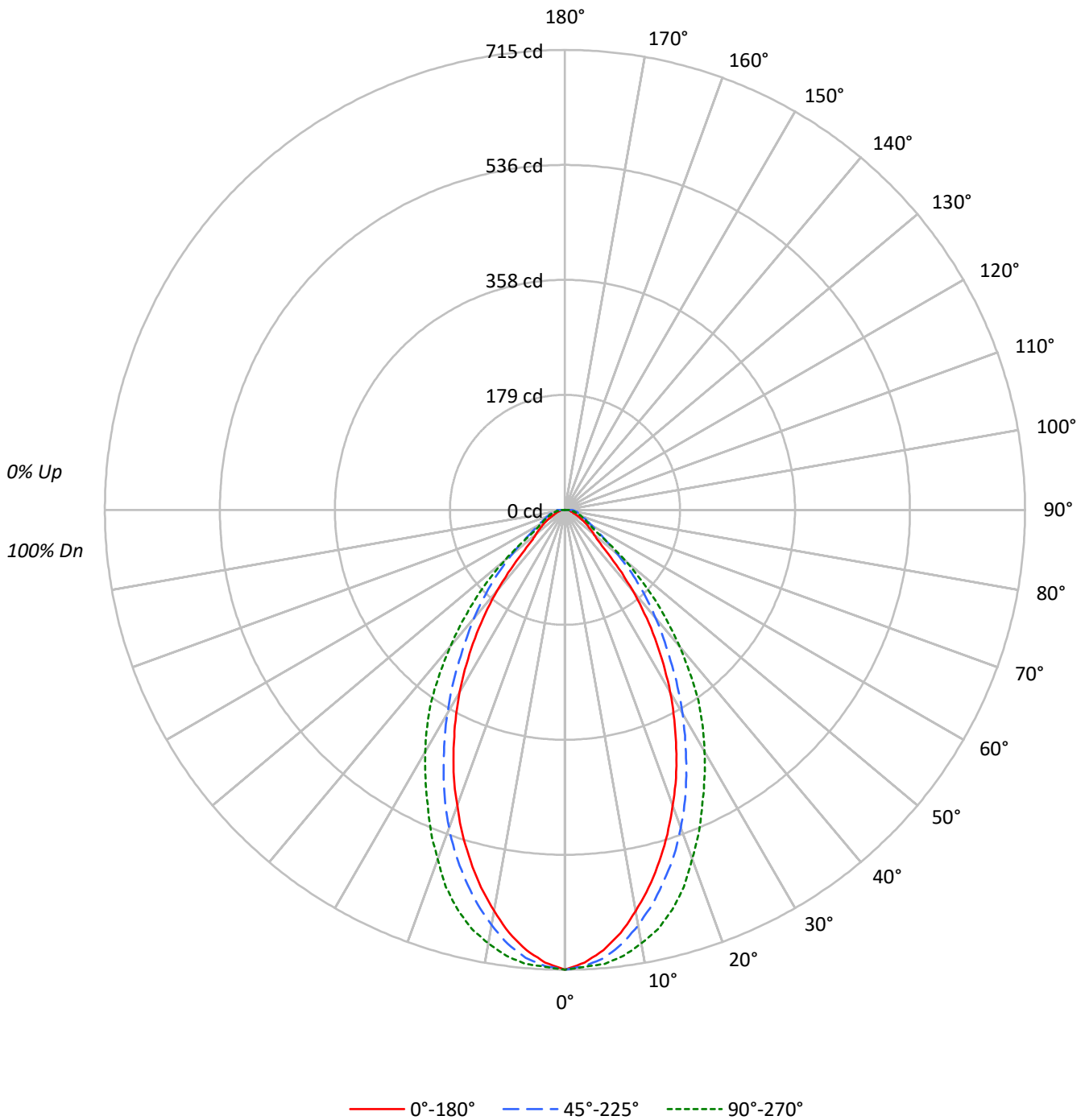
Lumens per Lamp: N/A
Luminaire Lumens: 862.5 lumens
Efficiency: N/A
Efficacy: 20.6 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.97 / 0.94
Luminous Opening: Rectangular (W 0.15' x L: 4' x H: 0')
CIE Type: Direct

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									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	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°	13192	13192	13192
5°	12729	12949	13120
10°	11864	12284	12827
15°	10811	11389	12297
20°	9610	10335	11346
25°	8325	9079	10286
30°	6970	7786	9247
35°	5496	6447	8141
40°	3941	5275	6672
45°	2307	4165	5164
50°	1665	3029	3485
55°	1399	2165	1824
60°	1118	1753	1557
65°	921	1554	1441
70°	782	1494	1354
75°	756	1597	1319
80°	839	1966	1403
85°	1397	3070	1948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5164 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	7.6
10°-20°	167.8	19.5
20°-30°	206.3	23.9
30°-40°	182.4	21.1
40°-50°	116.4	13.5
50°-60°	56.8	6.6
60°-70°	33.8	3.9
70°-80°	21.6	2.5
80°-90°	11.9	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°	439.6	51.0
0°-40°	622.0	72.1
0°-60°	795.1	92.2
0°-90°	862.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	862.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	687	702	699	702	708	64
15°	566	582	596	623	644	158
25°	409	423	446	474	505	187
35°	244	257	286	326	361	151
45°	88	113	160	179	198	74
55°	44	58	67	63	57	39
65°	21	40	36	33	33	21
75°	11	24	22	20	18	12
85°	7	13	14	13	9	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	714.9	714.9	714.9	714.9	714.9
2.5°	704.4	717.6	709.7	709.7	711.0
5°	687.2	701.8	699.1	701.8	708.3
7.5°	663.5	678.0	680.6	691.2	699.1
10°	633.2	647.7	655.6	672.7	684.6
12.5°	601.5	616.0	627.9	650.3	667.5
15°	565.9	581.7	596.2	622.6	643.7
17.5°	529.0	544.8	563.3	589.6	614.7
20°	489.4	503.9	526.3	551.4	577.8
22.5°	451.1	464.3	488.1	511.8	543.5
25°	408.9	423.4	445.9	473.6	505.2
27.5°	368.0	382.5	405.0	436.6	469.6
30°	327.1	340.3	365.4	398.4	434.0
32.5°	284.9	298.1	325.8	361.4	398.4
35°	244.0	257.2	286.2	325.8	361.4
37.5°	203.1	217.6	250.6	287.6	317.9
40°	163.6	180.7	219.0	250.6	277.0
42.5°	124.0	147.7	188.6	215.0	236.1
45°	88.4	113.4	159.6	179.4	197.9
47.5°	67.3	87.1	131.9	146.4	158.3
50°	58.0	71.2	105.5	116.1	121.4
52.5°	50.1	63.3	84.4	88.4	85.7
55°	43.5	58.0	67.3	63.3	56.7
57.5°	36.9	54.1	55.4	47.5	48.8
60°	30.3	48.8	47.5	40.9	42.2
62.5°	25.1	44.8	40.9	36.9	36.9
65°	21.1	39.6	35.6	33.0	33.0
67.5°	17.1	35.6	31.7	29.0	29.0
70°	14.5	31.7	27.7	25.1	25.1
72.5°	13.2	27.7	25.1	22.4	22.4
75°	10.6	23.7	22.4	19.8	18.5
77.5°	9.2	19.8	19.8	18.5	15.8
80°	7.9	17.1	18.5	15.8	13.2
82.5°	7.9	15.8	15.8	14.5	10.6
85°	6.6	13.2	14.5	13.2	9.2
87.5°	4.0	11.9	11.9	10.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)