

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: P1059386

Luminaire Tested: S123RDR-S775D935-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-68)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDR-S775D935-X4F0-XX-UDD-SVL-S
Description: DEFINE 3 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

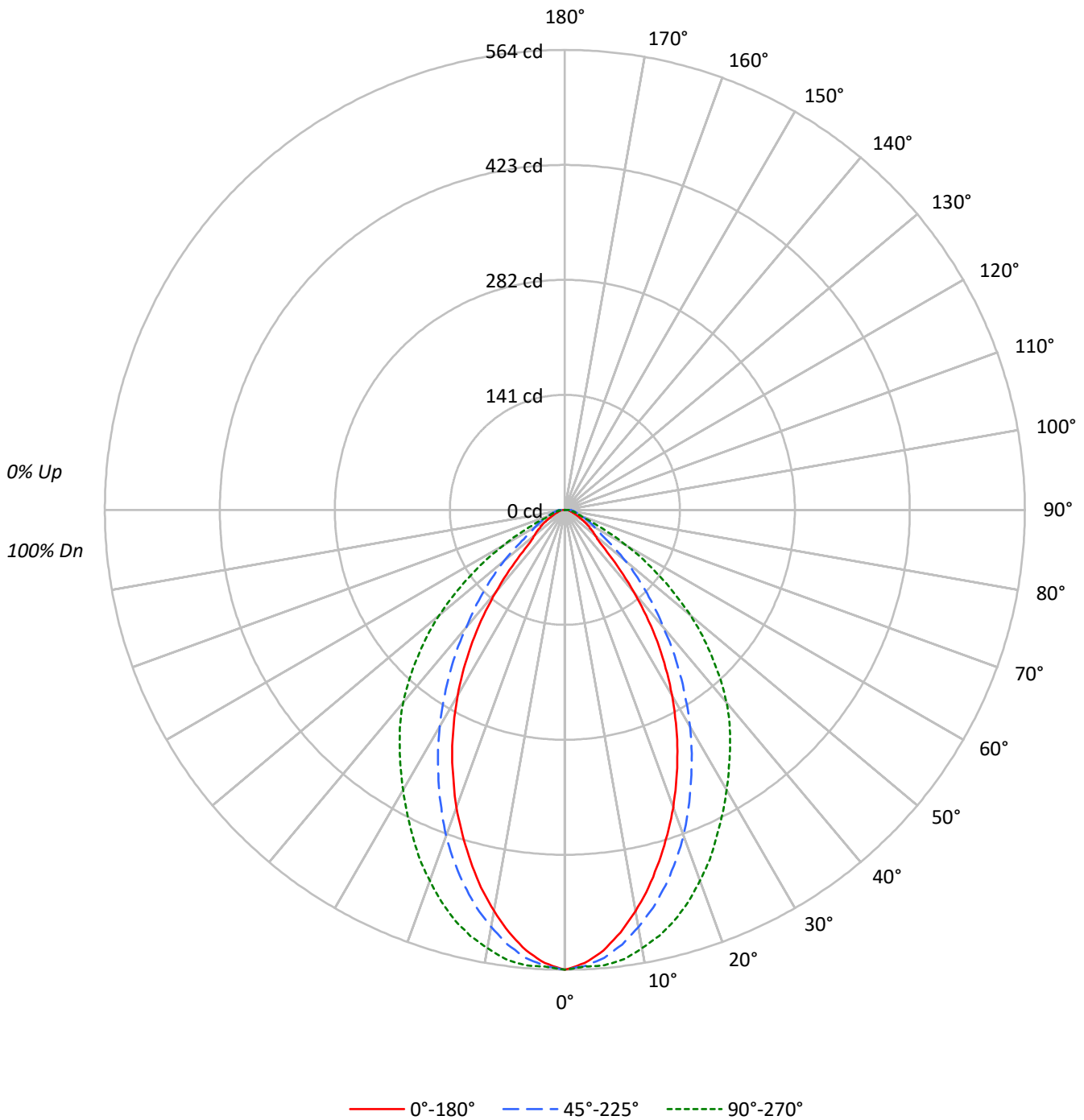
Lumens per Lamp: N/A
Luminaire Lumens: 755.2 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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

TEST NUMBER: P1059386

CATALOG NUMBER: S123RDR-S775D935-X4F0-XX-UDD-SVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1059386

CATALOG NUMBER: S123RDR-S775D935-X4F0-XX-UDD-SVL-S

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	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	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																																				
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71																																				
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64																																				
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58																																				
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52																																				
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48																																				
8	70	58	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45	44																																				
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40																																				
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37																																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6622	6622	6622
5°	6395	6501	6608
10°	5958	6193	6508
15°	5424	5794	6335
20°	4855	5318	6048
25°	4234	4746	5716
30°	3561	4164	5380
35°	2833	3528	5062
40°	2019	2877	4732
45°	1202	2310	4238
50°	888	1759	3670
55°	741	1196	2915
60°	599	986	2050
65°	481	847	1098
70°	395	735	680
75°	372	708	635
80°	392	778	615
85°	552	1105	781

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4238 cd/sqm



TEST NUMBER: P1059386

CATALOG NUMBER: S123RDR-S775D935-X4F0-XX-UDD-SVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	6.9
10°-20°	134.6	17.8
20°-30°	171.6	22.7
30°-40°	161.5	21.4
40°-50°	116.0	15.4
50°-60°	66.5	8.8
60°-70°	30.4	4.0
70°-80°	15.3	2.0
80°-90°	7.5	1.0
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°	358.0	47.4
0°-40°	519.5	68.8
0°-60°	702.0	93.0
0°-90°	755.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	542	553	552	556	561	50
15°	446	462	477	502	521	125
25°	327	342	366	406	441	149
35°	198	212	246	302	353	122
45°	72	88	139	205	255	61
55°	36	37	58	108	142	32
65°	17	24	30	34	40	17
75°	8	16	16	14	14	9
85°	4	8	8	7	6	4
90°	0	0	0	0	0	



TEST NUMBER: P1059386

CATALOG NUMBER: S123RDR-S775D935-X4F0-XX-UDD-SVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.9	563.9	563.9	563.9	563.9
2.5°	556.5	564.7	559.8	559.8	560.6
5°	542.5	553.2	551.5	555.7	560.6
7.5°	522.7	534.3	537.5	547.4	555.7
10°	499.7	512.8	519.4	535.1	545.8
12.5°	474.2	489.0	499.7	519.4	535.1
15°	446.2	461.8	476.6	502.1	521.1
17.5°	417.4	433.0	451.9	481.6	503.8
20°	388.5	404.2	425.6	456.9	484.0
22.5°	357.3	372.9	396.0	431.4	464.3
25°	326.8	341.6	366.3	405.8	441.2
27.5°	294.7	309.5	336.7	379.5	419.0
30°	262.6	277.4	307.1	353.1	396.8
32.5°	230.5	244.5	276.6	327.6	374.6
35°	197.6	211.6	246.1	302.1	353.1
37.5°	163.8	177.8	218.1	279.1	331.7
40°	131.7	147.4	187.7	256.0	308.7
42.5°	100.4	116.9	163.0	231.3	282.4
45°	72.4	88.1	139.1	205.0	255.2
47.5°	55.2	63.4	117.7	178.6	228.8
50°	48.6	49.4	96.3	154.8	200.9
52.5°	42.0	42.8	74.9	131.7	171.2
55°	36.2	37.0	58.4	107.8	142.4
57.5°	30.5	32.1	47.7	85.6	114.4
60°	25.5	28.8	42.0	65.0	87.3
62.5°	20.6	26.3	36.2	47.7	62.6
65°	17.3	23.9	30.5	33.8	39.5
67.5°	14.0	22.2	25.5	23.9	23.9
70°	11.5	19.8	21.4	19.8	19.8
72.5°	9.9	18.9	18.1	16.5	16.5
75°	8.2	16.5	15.6	14.0	14.0
77.5°	7.4	14.0	13.2	12.3	11.5
80°	5.8	11.5	11.5	10.7	9.1
82.5°	4.9	9.9	9.9	9.1	7.4
85°	4.1	8.2	8.2	7.4	5.8
87.5°	3.3	7.4	7.4	6.6	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)