

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: P1059368

Luminaire Tested: S123RDR-S775D927-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1059368
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-S775D927-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

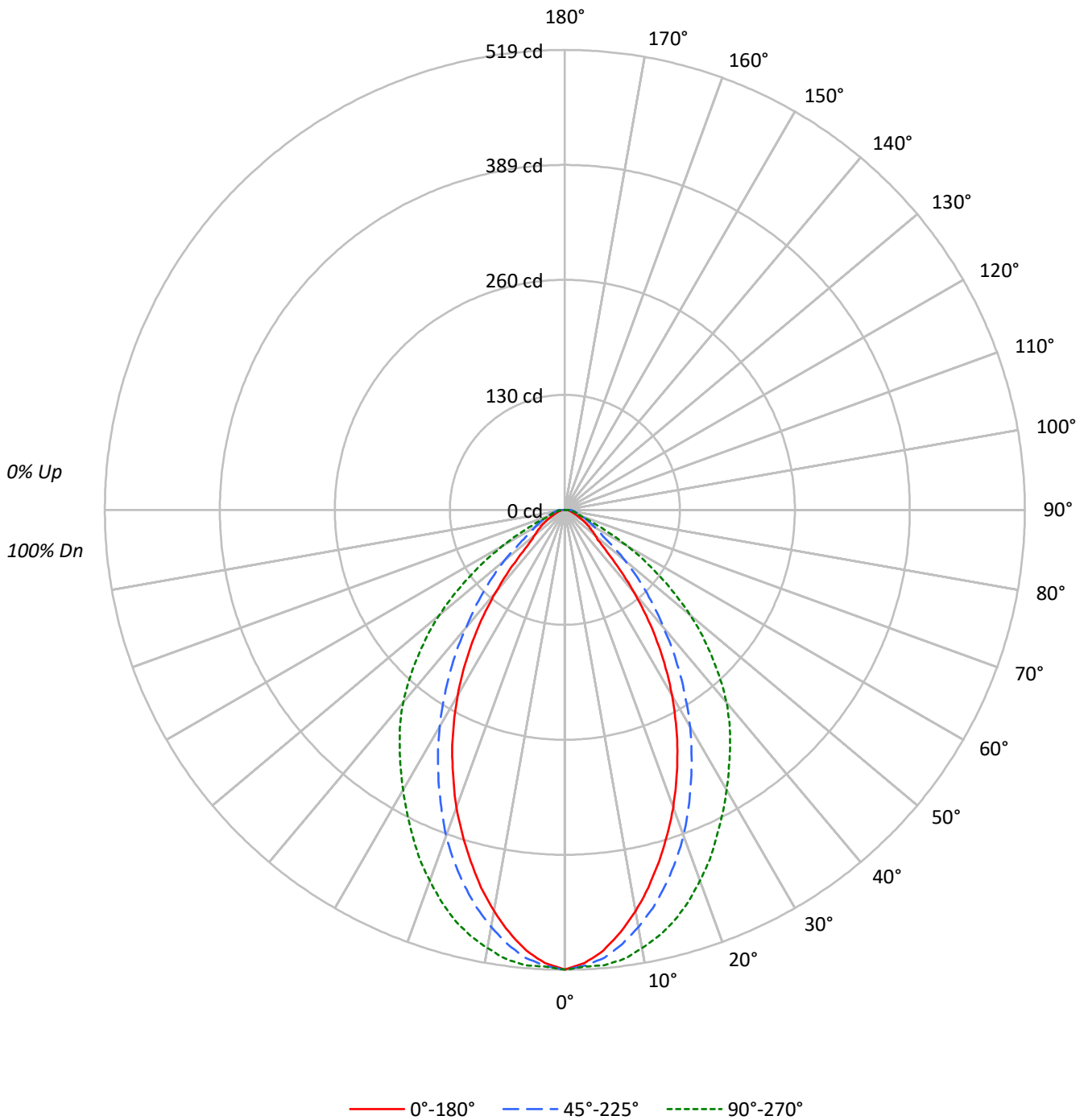
Lumens per Lamp: N/A
Luminaire Lumens: 694.8 lumens
Efficiency: N/A
Efficacy: 26.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.07 / 0.98
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	6092	6092	6092
5°	5883	5982	6080
10°	5481	5698	5988
15°	4990	5331	5828
20°	4467	4893	5566
25°	3896	4366	5260
30°	3276	3830	4950
35°	2606	3247	4657
40°	1858	2647	4353
45°	1108	2126	3899
50°	817	1619	3376
55°	682	1101	2682
60°	552	907	1886
65°	442	778	1011
70°	364	676	625
75°	345	653	585
80°	358	717	561
85°	512	1024	714

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3899 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	6.9
10°-20°	123.8	17.8
20°-30°	157.9	22.7
30°-40°	148.6	21.4
40°-50°	106.8	15.4
50°-60°	61.2	8.8
60°-70°	28.0	4.0
70°-80°	14.1	2.0
80°-90°	6.9	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°	329.4	47.4
0°-40°	478.0	68.8
0°-60°	645.9	93.0
0°-90°	694.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	694.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	519	519	519	519	519	
5°	499	509	508	511	516	46
15°	410	425	438	462	479	115
25°	301	314	337	373	406	137
35°	182	195	226	278	325	113
45°	67	81	128	189	235	56
55°	33	34	54	99	131	30
65°	16	22	28	31	36	16
75°	8	15	14	13	13	8
85°	4	8	8	7	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	518.8	518.8	518.8	518.8	518.8
2.5°	512.0	519.6	515.0	515.0	515.8
5°	499.1	509.0	507.5	511.2	515.8
7.5°	480.9	491.6	494.6	503.7	511.2
10°	459.7	471.9	477.9	492.3	502.2
12.5°	436.3	449.9	459.7	477.9	492.3
15°	410.5	424.9	438.5	462.0	479.4
17.5°	384.0	398.4	415.8	443.1	463.5
20°	357.5	371.9	391.6	420.4	445.4
22.5°	328.7	343.1	364.3	396.9	427.2
25°	300.7	314.3	337.0	373.4	406.0
27.5°	271.1	284.8	309.8	349.2	385.5
30°	241.6	255.2	282.5	324.9	365.1
32.5°	212.1	224.9	254.5	301.4	344.6
35°	181.8	194.7	226.5	278.0	324.9
37.5°	150.7	163.6	200.7	256.8	305.2
40°	121.2	135.6	172.7	235.6	284.0
42.5°	92.4	107.6	150.0	212.8	259.8
45°	66.7	81.0	128.0	188.6	234.8
47.5°	50.7	58.3	108.3	164.4	210.6
50°	44.7	45.4	88.6	142.4	184.8
52.5°	38.6	39.4	68.9	121.2	157.5
55°	33.3	34.1	53.8	99.2	131.0
57.5°	28.0	29.5	43.9	78.8	105.3
60°	23.5	26.5	38.6	59.8	80.3
62.5°	18.9	24.2	33.3	43.9	57.6
65°	15.9	22.0	28.0	31.1	36.4
67.5°	12.9	20.4	23.5	22.0	22.0
70°	10.6	18.2	19.7	18.2	18.2
72.5°	9.1	17.4	16.7	15.1	15.1
75°	7.6	15.1	14.4	12.9	12.9
77.5°	6.8	12.9	12.1	11.4	10.6
80°	5.3	10.6	10.6	9.8	8.3
82.5°	4.5	9.1	9.1	8.3	6.8
85°	3.8	7.6	7.6	6.8	5.3
87.5°	3.0	6.8	6.8	6.1	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)