

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: P1059288

Luminaire Tested: S123RDR-S560D927-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1059288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDR-S560D927-X4F0-XX-UDD-SVL-W  
Description: DEFINE 3 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

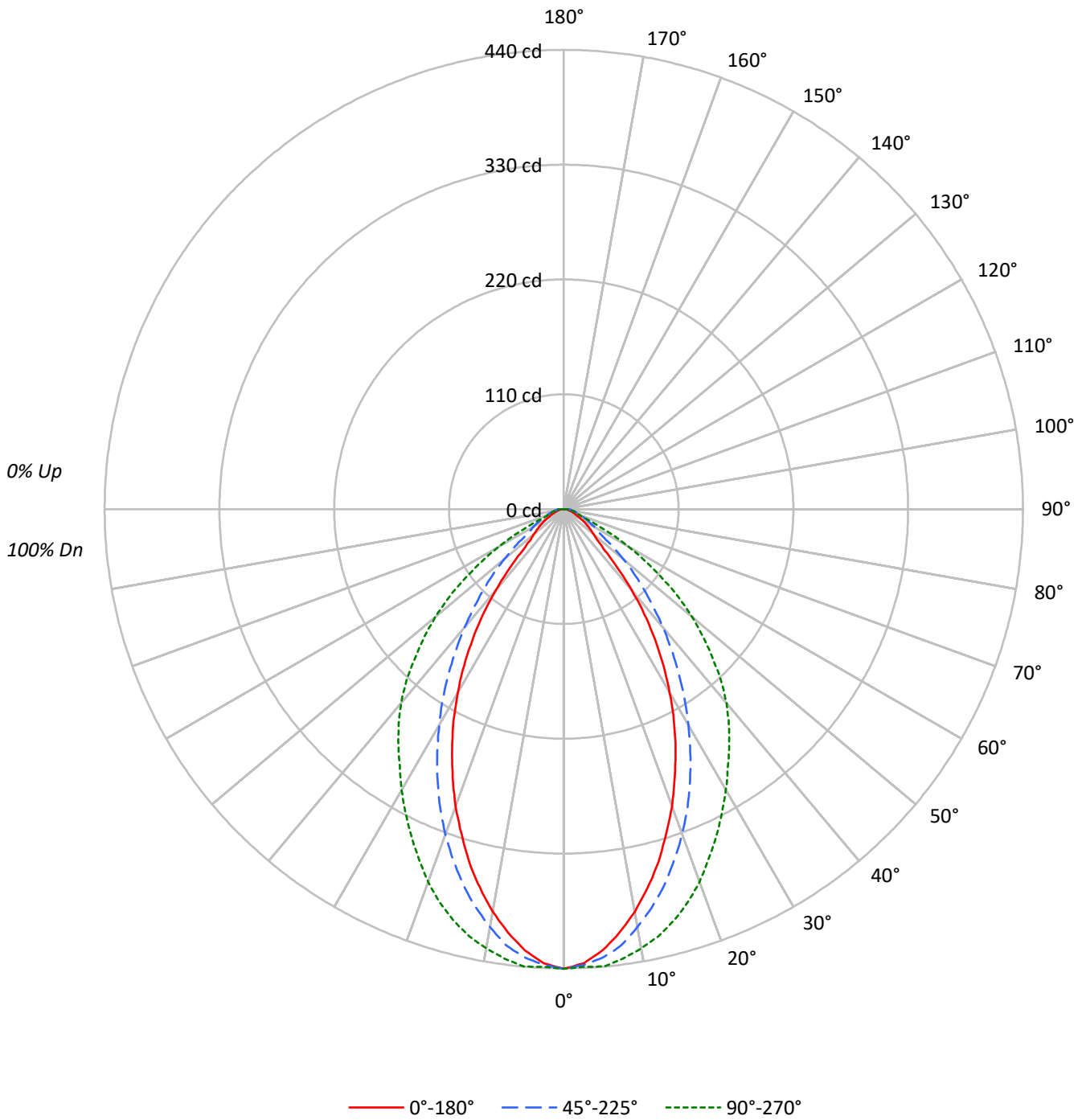
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 591.2 lumens  
Efficiency: N/A  
Efficacy: 30.2 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.08 / 0.98  
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
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	102	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	90	81	74	68	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	60	69	64	60	68	63	59	58
6	79	68	61	55	78	67	60	55	66	59	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	55	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	49	43	39	49	43	39	48	43	39	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5171	5171	5171
5°	5004	5082	5185
10°	4670	4847	5095
15°	4256	4530	4961
20°	3788	4142	4751
25°	3282	3707	4480
30°	2752	3234	4213
35°	2180	2752	3961
40°	1544	2264	3716
45°	908	1790	3343
50°	680	1359	2928
55°	571	919	2352
60°	463	784	1670
65°	364	670	881
70°	319	584	546
75°	299	544	522
80°	298	595	521
85°	364	889	660

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 3343 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.5	6.9
10°-20°	105.3	17.8
20°-30°	134.1	22.7
30°-40°	126.2	21.3
40°-50°	90.9	15.4
50°-60°	52.5	8.9
60°-70°	24.0	4.1
70°-80°	12.0	2.0
80°-90°	5.7	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°	280.0	47.4
0°-40°	406.2	68.7
0°-60°	549.5	93.0
0°-90°	591.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	591.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	440	440	440	440	440	
5°	424	432	431	436	440	39
15°	350	363	373	393	408	98
25°	253	266	286	318	346	116
35°	152	165	192	236	276	94
45°	55	68	108	162	201	46
55°	28	29	45	85	115	25
65°	13	19	24	27	32	13
75°	7	13	12	12	12	7
85°	3	6	7	6	5	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	440.4	440.4	440.4	440.4	440.4
2.5°	435.5	440.9	437.1	437.7	438.8
5°	424.5	431.6	431.1	435.5	439.9
7.5°	409.2	417.4	421.8	428.4	434.4
10°	391.7	401.0	406.5	418.5	427.3
12.5°	371.5	383.5	390.6	406.5	419.1
15°	350.1	362.7	372.6	393.4	408.1
17.5°	326.1	339.7	352.3	376.9	395.0
20°	303.1	316.2	331.5	358.3	380.2
22.5°	277.9	292.1	309.6	338.1	362.7
25°	253.3	266.4	286.1	317.9	345.8
27.5°	228.7	241.8	262.6	297.6	328.2
30°	203.0	216.6	238.5	277.4	310.7
32.5°	177.8	190.9	215.6	257.7	292.7
35°	152.1	165.2	192.0	236.3	276.3
37.5°	126.9	140.6	169.0	218.8	259.9
40°	100.7	115.4	147.7	200.8	242.4
42.5°	76.0	91.9	126.4	182.2	223.2
45°	54.7	68.4	107.8	161.9	201.3
47.5°	42.7	49.8	90.8	141.1	181.1
50°	37.2	38.3	74.4	122.0	160.3
52.5°	32.3	33.4	58.5	103.9	138.4
55°	27.9	29.0	44.9	85.3	114.9
57.5°	23.5	25.2	37.2	67.8	92.5
60°	19.7	21.9	33.4	52.0	71.1
62.5°	15.9	19.7	28.4	38.3	50.9
65°	13.1	18.6	24.1	26.8	31.7
67.5°	10.9	17.0	20.2	19.1	18.6
70°	9.3	15.3	17.0	15.3	15.9
72.5°	7.7	14.2	14.2	13.1	13.1
75°	6.6	12.6	12.0	11.5	11.5
77.5°	5.5	10.9	10.4	9.8	9.3
80°	4.4	8.8	8.8	8.2	7.7
82.5°	3.8	7.1	7.1	7.1	6.0
85°	2.7	6.0	6.6	6.0	4.9
87.5°	2.2	5.5	5.5	4.9	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)