

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: P1060343

Luminaire Tested: S124RDR-S1195D927-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S1195D927-X4F0-XX-UDD-WVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

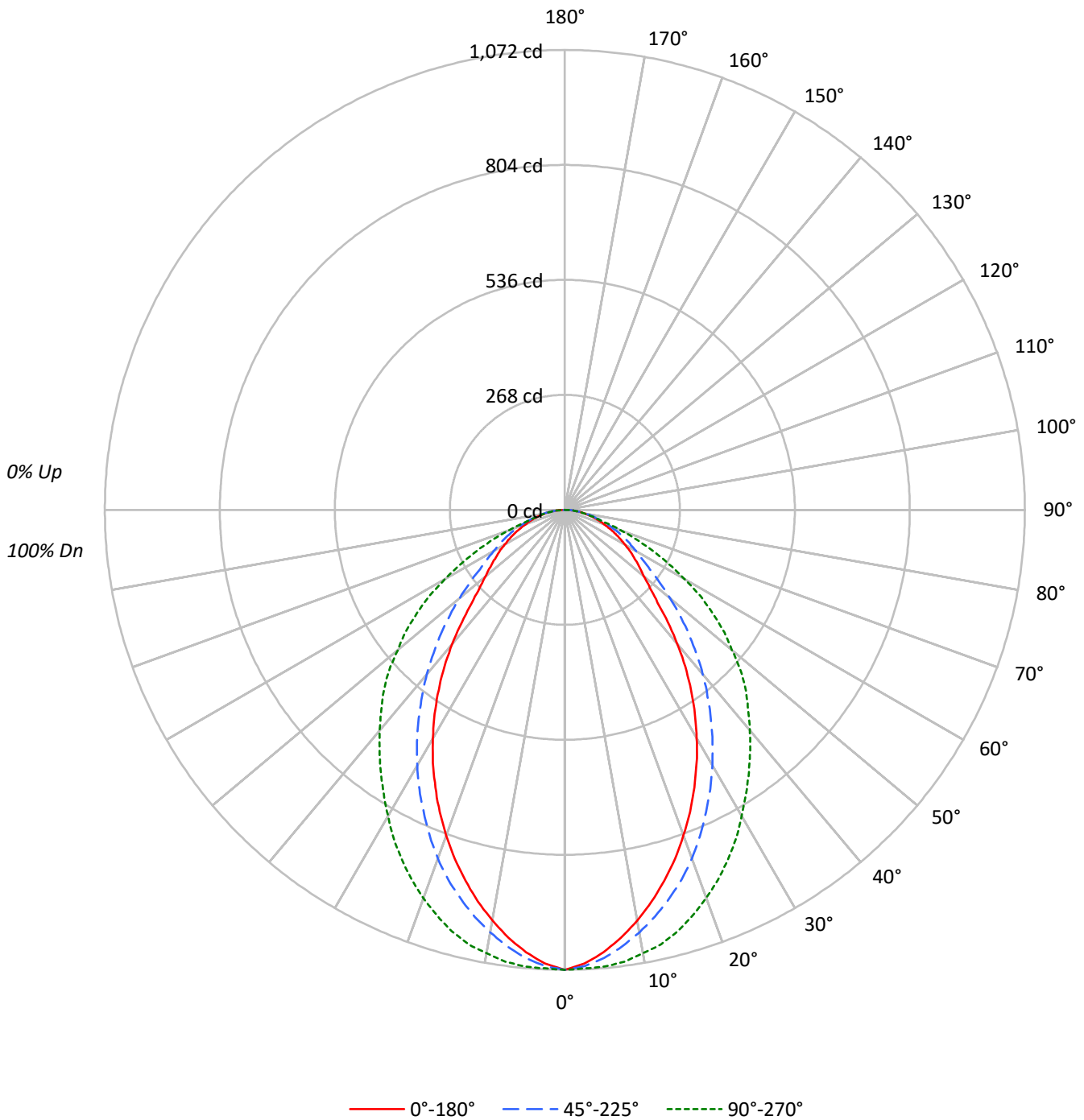
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1951.9 lumens  
Efficiency: N/A  
Efficacy: 46.7 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1  
Luminous Opening: Rectangular (W 0.31' 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				
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75				
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65				
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57				
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50				
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45				
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41				
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37				
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34				
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31				

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

	0°	45°	90°
0°	9233	9233	9233
5°	8947	9064	9239
10°	8500	8746	9179
15°	7975	8366	9067
20°	7405	7930	8826
25°	6781	7389	8543
30°	6113	6839	8191
35°	5388	6238	7857
40°	4586	5622	7542
45°	3723	4969	7268
50°	3222	4276	6805
55°	2986	3627	6310
60°	2787	3271	5535
65°	2610	3069	4603
70°	2435	2830	3479
75°	2319	2618	2505
80°	2172	2395	2117
85°	1996	2223	1670

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7268 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.0	5.1
10°-20°	266.1	13.6
20°-30°	363.3	18.6
30°-40°	380.6	19.5
40°-50°	329.5	16.9
50°-60°	247.5	12.7
60°-70°	159.6	8.2
70°-80°	81.9	4.2
80°-90°	24.4	1.3
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°	728.4	37.3
0°-40°	1109.0	56.8
0°-60°	1686.0	86.4
0°-90°	1951.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1951.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1035	1051	1049	1056	1069	97
15°	895	917	938	981	1017	251
25°	714	741	778	838	899	327
35°	512	542	593	672	747	319
45°	306	337	408	508	597	241
55°	199	206	242	345	420	179
65°	128	130	151	182	226	127
75°	70	78	79	78	75	74
85°	20	24	22	21	17	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1072.2	1072.2	1072.2	1072.2	1072.2
2.5°	1058.7	1072.2	1064.3	1066.5	1069.9
5°	1035.1	1050.8	1048.6	1056.4	1068.8
7.5°	1005.9	1022.7	1026.1	1044.1	1062.0
10°	972.1	991.2	1000.2	1027.2	1049.7
12.5°	935.1	955.3	971.0	1004.7	1037.3
15°	894.6	917.1	938.4	981.1	1017.1
17.5°	853.0	875.5	903.6	950.8	991.2
20°	808.1	832.8	865.4	914.8	963.1
22.5°	762.0	787.8	822.7	876.6	932.8
25°	713.7	740.6	777.7	838.4	899.1
27.5°	665.3	692.3	733.9	797.9	864.2
30°	614.8	642.8	687.8	757.5	823.8
32.5°	564.2	594.5	640.6	714.8	785.6
35°	512.5	541.7	593.4	672.1	747.4
37.5°	460.8	491.1	546.2	630.5	709.2
40°	408.0	439.4	500.1	588.9	670.9
42.5°	355.1	388.9	452.9	546.2	632.7
45°	305.7	337.2	408.0	508.0	596.8
47.5°	268.6	290.0	363.0	470.9	556.3
50°	240.5	251.7	319.2	430.4	508.0
52.5°	219.2	227.0	278.7	386.6	468.6
55°	198.9	205.7	241.6	345.0	420.3
57.5°	180.9	184.3	213.5	304.6	374.2
60°	161.8	165.2	189.9	260.7	321.4
62.5°	145.0	147.2	170.8	219.2	273.1
65°	128.1	130.4	150.6	182.1	225.9
67.5°	112.4	115.8	131.5	148.3	179.8
70°	96.7	103.4	112.4	120.3	138.2
72.5°	83.2	89.9	94.4	96.7	97.8
75°	69.7	77.5	78.7	77.5	75.3
77.5°	56.2	62.9	62.9	60.7	58.4
80°	43.8	49.4	48.3	46.1	42.7
82.5°	32.6	36.0	34.8	32.6	29.2
85°	20.2	23.6	22.5	21.4	16.9
87.5°	10.1	13.5	12.4	11.2	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)