

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: P1060574

Luminaire Tested: S124RDR-S795D850-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S795D850-X4F0-XX-UDD-SVL-S  
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

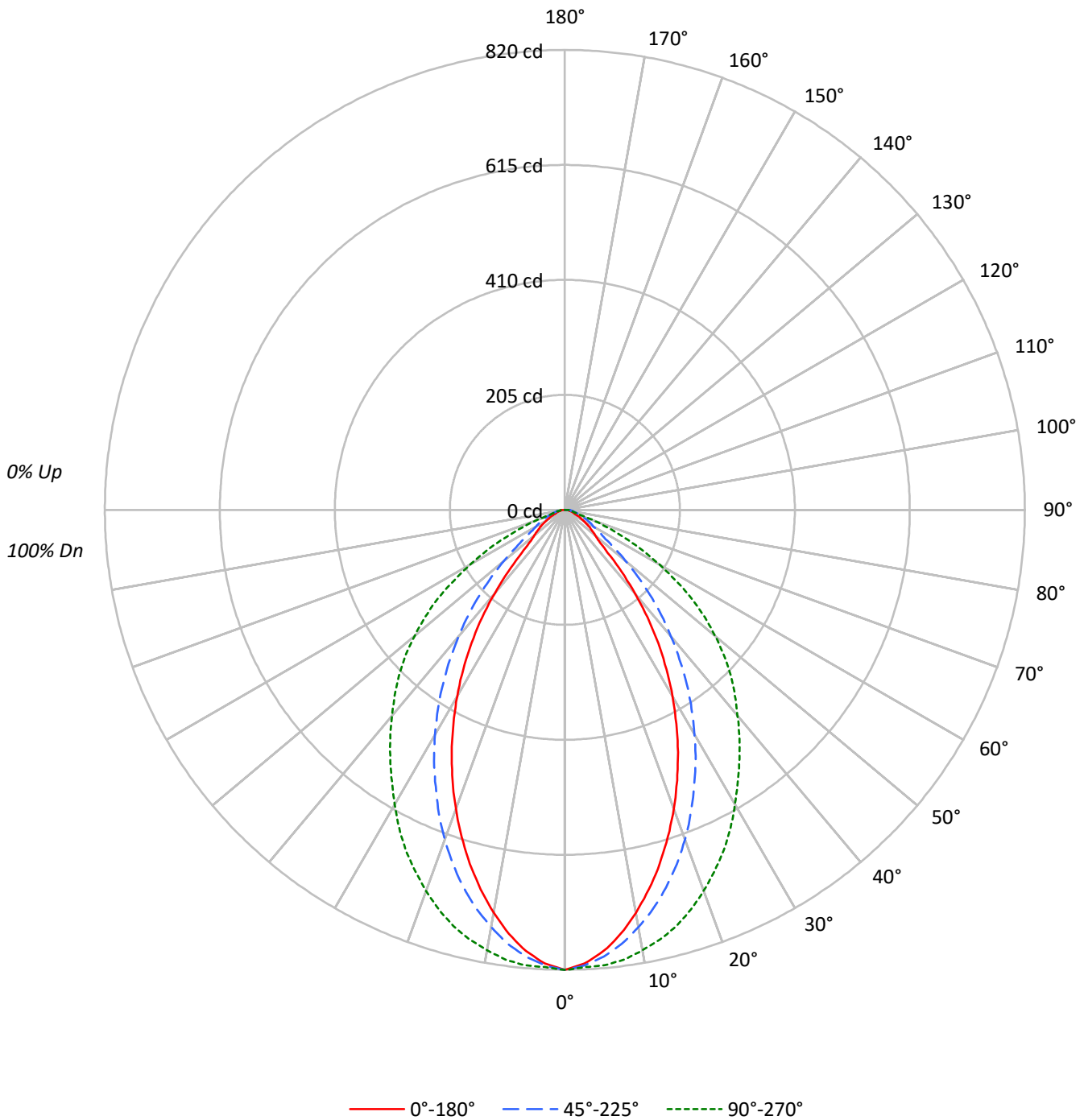
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1153.4 lumens  
Efficiency: N/A  
Efficacy: 44.7 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01  
Luminous Opening: Rectangular (W 0.31' 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				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	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	7063	7063	7063
5°	6829	6910	7045
10°	6378	6606	6972
15°	5824	6215	6848
20°	5202	5737	6627
25°	4531	5175	6366
30°	3818	4597	6029
35°	3050	3982	5704
40°	2193	3308	5384
45°	1321	2605	5096
50°	951	1888	4683
55°	799	1269	4151
60°	648	1006	3343
65°	509	915	2402
70°	446	763	1287
75°	416	695	625
80°	412	724	570
85°	622	1028	721

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5096 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.3	6.5
10°-20°	197.3	17.1
20°-30°	256.0	22.2
30°-40°	246.1	21.3
40°-50°	182.6	15.8
50°-60°	111.8	9.7
60°-70°	54.3	4.7
70°-80°	20.7	1.8
80°-90°	9.3	0.8
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°	528.6	45.8
0°-40°	774.7	67.2
0°-60°	1069.1	92.7
0°-90°	1153.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1153.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	790	802	799	807	815	74
15°	653	672	697	739	768	182
25°	477	501	545	615	670	218
35°	290	316	379	469	543	180
45°	108	136	214	327	418	90
55°	53	55	84	191	276	48
65°	25	27	45	71	118	26
75°	12	20	21	19	19	13
85°	6	10	10	9	7	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	820.2	820.2	820.2	820.2	820.2
2.5°	809.8	819.2	812.9	815.0	816.1
5°	790.0	801.5	799.4	806.7	815.0
7.5°	762.8	776.4	780.6	795.2	808.8
10°	729.4	746.1	755.5	779.5	797.3
12.5°	692.9	710.7	728.4	760.8	784.8
15°	653.3	672.0	697.1	738.8	768.1
17.5°	611.5	632.4	662.7	712.7	747.2
20°	567.7	589.6	626.1	681.4	723.2
22.5°	522.8	545.8	586.5	648.0	697.1
25°	476.9	500.9	544.7	614.7	670.0
27.5°	429.9	455.0	505.1	579.2	639.7
30°	384.0	408.0	462.3	542.6	606.3
32.5°	337.1	362.1	420.6	505.1	574.0
35°	290.1	316.2	378.8	468.6	542.6
37.5°	242.1	270.3	336.0	433.1	511.3
40°	195.1	222.3	294.3	396.6	479.0
42.5°	149.2	178.4	254.6	360.0	448.7
45°	108.5	135.7	213.9	326.6	418.5
47.5°	81.4	98.1	176.4	295.3	385.1
50°	71.0	74.1	140.9	260.9	349.6
52.5°	61.6	63.7	109.6	223.3	314.1
55°	53.2	55.3	84.5	191.0	276.5
57.5°	44.9	47.0	67.8	159.7	233.8
60°	37.6	39.7	58.4	127.3	194.1
62.5°	31.3	32.4	52.2	97.1	155.5
65°	25.0	27.1	44.9	71.0	117.9
67.5°	20.9	23.0	36.5	49.0	82.4
70°	17.7	23.0	30.3	34.4	51.1
72.5°	14.6	20.9	25.0	24.0	24.0
75°	12.5	19.8	20.9	18.8	18.8
77.5°	10.4	17.7	16.7	15.7	14.6
80°	8.3	14.6	14.6	12.5	11.5
82.5°	7.3	11.5	11.5	11.5	9.4
85°	6.3	10.4	10.4	9.4	7.3
87.5°	4.2	8.3	9.4	8.3	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)