

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: P1060556

Luminaire Tested: S124RDR-S795D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060556  
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-S795D835-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

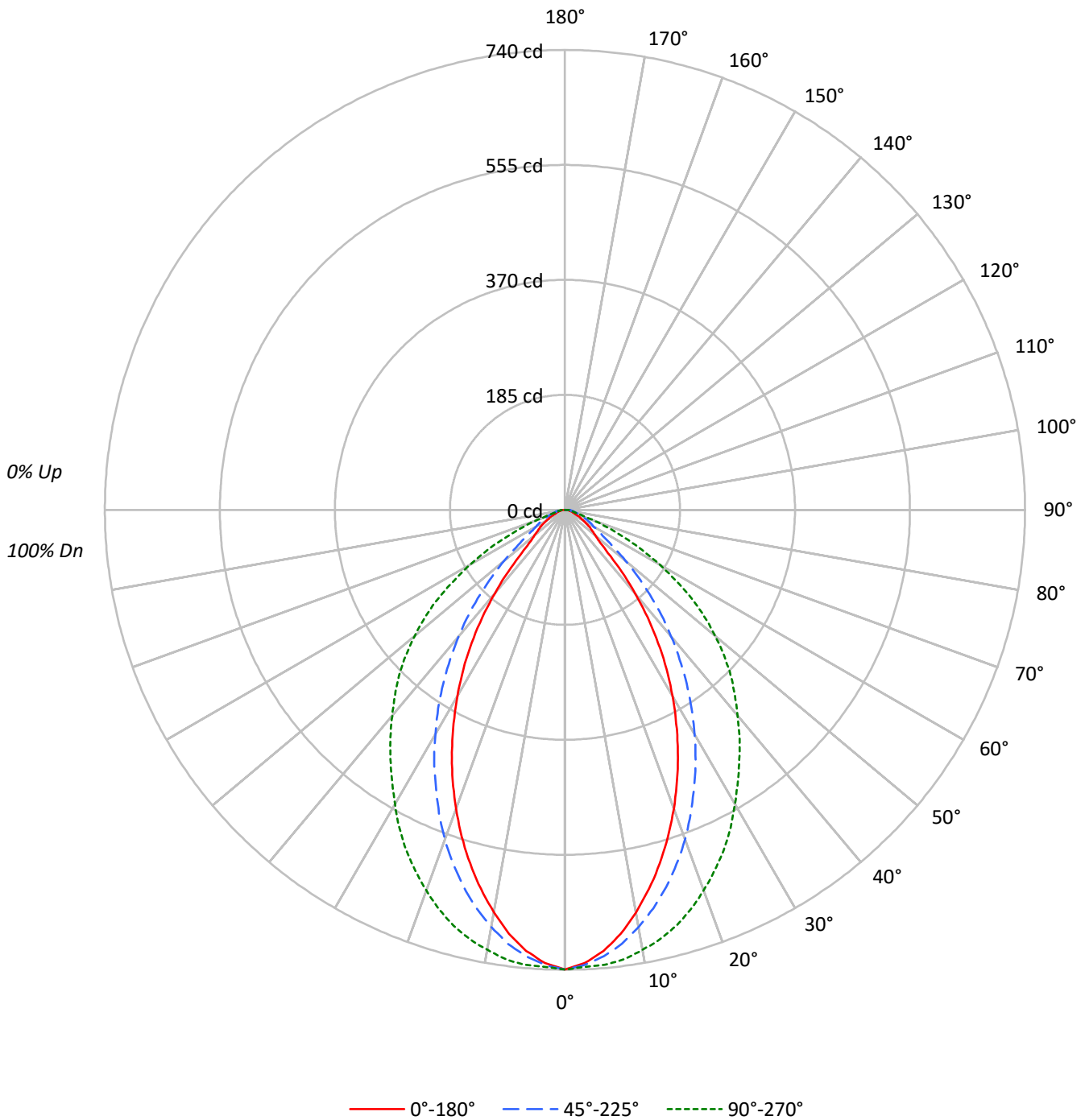
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1040.0 lumens  
Efficiency: N/A  
Efficacy: 40.3 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63				63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57				57
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51				51
7	74	62	55	50	72	62	54	49	60	54	49	59	53	49	58	52	49	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43				43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°
0°	6369	6369	6369
5°	6157	6231	6352
10°	5752	5957	6286
15°	5252	5604	6174
20°	4691	5174	5976
25°	4086	4667	5740
30°	3443	4145	5436
35°	2750	3591	5144
40°	1978	2983	4855
45°	1192	2349	4595
50°	857	1701	4223
55°	721	1144	3744
60°	584	908	3014
65°	460	825	2166
70°	403	687	1161
75°	376	625	562
80°	372	655	516
85°	553	929	652

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4595 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.9	6.5
10°-20°	177.9	17.1
20°-30°	230.8	22.2
30°-40°	221.9	21.3
40°-50°	164.6	15.8
50°-60°	100.8	9.7
60°-70°	49.0	4.7
70°-80°	18.7	1.8
80°-90°	8.4	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°	476.6	45.8
0°-40°	698.5	67.2
0°-60°	964.0	92.7
0°-90°	1040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1040.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	712	723	721	727	735	66
15°	589	606	629	666	693	164
25°	430	452	491	554	604	197
35°	262	285	342	422	489	162
45°	98	122	193	294	377	81
55°	48	50	76	172	249	43
65°	23	24	40	64	106	23
75°	11	18	19	17	17	12
85°	6	9	9	8	7	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	739.6	739.6	739.6	739.6	739.6
2.5°	730.2	738.7	733.0	734.9	735.9
5°	712.3	722.7	720.8	727.4	734.9
7.5°	687.9	700.1	703.9	717.0	729.3
10°	657.8	672.8	681.3	702.9	718.9
12.5°	624.8	640.8	656.8	686.0	707.6
15°	589.1	606.0	628.6	666.2	692.6
17.5°	551.4	570.2	597.5	642.7	673.7
20°	511.9	531.7	564.6	614.5	652.1
22.5°	471.4	492.1	528.8	584.4	628.6
25°	430.0	451.7	491.2	554.2	604.1
27.5°	387.7	410.3	455.4	522.2	576.8
30°	346.3	367.9	416.9	489.3	546.7
32.5°	303.9	326.5	379.2	455.4	517.5
35°	261.6	285.1	341.6	422.5	489.3
37.5°	218.3	243.7	303.0	390.5	461.1
40°	176.0	200.4	265.4	357.6	431.9
42.5°	134.6	160.9	229.6	324.6	404.6
45°	97.9	122.3	192.9	294.5	377.3
47.5°	73.4	88.5	159.0	266.3	347.2
50°	64.0	66.8	127.0	235.2	315.2
52.5°	55.5	57.4	98.8	201.4	283.2
55°	48.0	49.9	76.2	172.2	249.4
57.5°	40.5	42.3	61.2	144.0	210.8
60°	33.9	35.8	52.7	114.8	175.0
62.5°	28.2	29.2	47.0	87.5	140.2
65°	22.6	24.5	40.5	64.0	106.3
67.5°	18.8	20.7	32.9	44.2	74.3
70°	16.0	20.7	27.3	31.1	46.1
72.5°	13.2	18.8	22.6	21.6	21.6
75°	11.3	17.9	18.8	16.9	16.9
77.5°	9.4	16.0	15.1	14.1	13.2
80°	7.5	13.2	13.2	11.3	10.4
82.5°	6.6	10.4	10.4	10.4	8.5
85°	5.6	9.4	9.4	8.5	6.6
87.5°	3.8	7.5	8.5	7.5	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)