

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: P1060603

Luminaire Tested: S124RDR-S795D935-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1060603  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-37)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S124RDR-S795D935-X4F0-XX-UDD-WVL-B  
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE  
LOUVER WITH DIFFUSER  
CORE LIGHT ENGINE  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

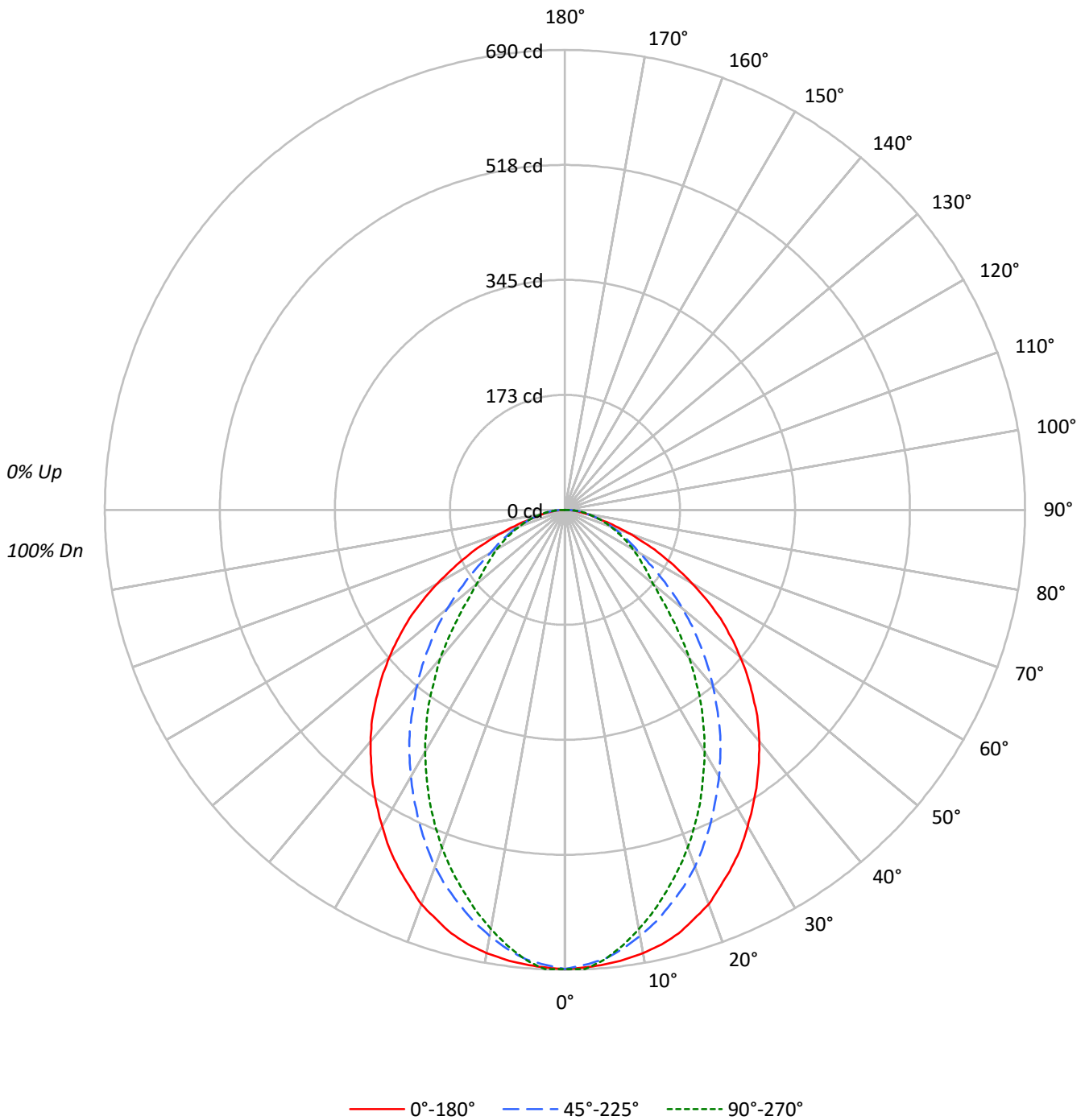
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1328.3 lumens  
Efficiency: N/A  
Efficacy: 51.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12  
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				
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				
2	101	94	88	83	99	92	86	82	89	84	80	85	82	78	82	79	76	74				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				

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

	0°	45°	90°
0°	5932	5932	5932
5°	5919	5849	5856
10°	5903	5677	5585
15°	5867	5463	5268
20°	5771	5222	4940
25°	5622	4915	4568
30°	5449	4596	4169
35°	5276	4263	3744
40°	5096	3885	3267
45°	4870	3490	2730
50°	4598	3080	2310
55°	4277	2612	2139
60°	3792	2217	2022
65°	3234	2046	1913
70°	2528	1896	1813
75°	1723	1750	1750
80°	1488	1646	1686
85°	1284	1601	1759

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4870 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	4.8
10°-20°	174.1	13.1
20°-30°	241.6	18.2
30°-40°	259.0	19.5
40°-50°	229.5	17.3
50°-60°	172.9	13.0
60°-70°	112.0	8.4
70°-80°	57.5	4.3
80°-90°	17.6	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°	479.8	36.1
0°-40°	738.8	55.6
0°-60°	1141.2	85.9
0°-90°	1328.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1328.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	689	689	689	689	689	
5°	685	686	677	678	678	65
15°	658	644	613	597	591	185
25°	592	560	517	490	481	272
35°	502	456	406	369	356	314
45°	400	348	287	242	224	308
55°	285	237	174	146	142	253
65°	159	128	100	95	94	157
75°	52	54	53	53	53	61
85°	13	14	16	18	18	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	688.9	688.9	688.9	688.9	688.9
2.5°	687.2	689.7	683.2	688.1	689.7
5°	684.8	685.6	676.7	677.5	677.5
7.5°	680.8	679.1	664.6	660.5	659.7
10°	675.1	670.2	649.2	641.1	638.7
12.5°	667.8	658.9	632.2	620.9	616.0
15°	658.1	643.5	612.8	597.4	590.9
17.5°	643.5	624.9	592.5	573.1	565.8
20°	629.8	604.7	569.9	545.6	539.1
22.5°	610.3	583.6	544.0	518.1	510.0
25°	591.7	560.2	517.3	489.7	480.8
27.5°	571.5	535.9	489.7	460.6	449.3
30°	548.0	510.0	462.2	431.4	419.3
32.5°	525.3	484.9	433.9	399.9	386.9
35°	501.9	456.5	405.5	369.1	356.2
37.5°	477.6	429.8	374.0	338.4	321.4
40°	453.3	403.1	345.6	305.2	290.6
42.5°	428.2	375.6	316.5	274.4	255.8
45°	399.9	348.1	286.6	242.0	224.2
47.5°	372.4	321.4	259.0	210.5	194.3
50°	343.2	293.0	229.9	182.9	172.4
52.5°	314.1	263.9	201.6	161.9	157.0
55°	284.9	237.2	174.0	146.5	142.5
57.5°	252.6	209.7	149.8	132.8	129.5
60°	220.2	179.7	128.7	119.8	117.4
62.5°	188.6	153.8	114.1	106.9	105.2
65°	158.7	127.9	100.4	94.7	93.9
67.5°	129.5	105.2	87.4	84.2	82.6
70°	100.4	84.2	75.3	73.7	72.0
72.5°	74.5	68.0	63.9	63.1	62.3
75°	51.8	54.2	52.6	52.6	52.6
77.5°	41.3	42.1	42.9	43.7	42.9
80°	30.0	32.4	33.2	34.8	34.0
82.5°	21.0	22.7	25.1	25.9	26.7
85°	13.0	13.8	16.2	17.8	17.8
87.5°	5.7	6.5	8.1	9.7	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)