

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: P1060600

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

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-38)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S795D935-X4F0-XX-UDD-SVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

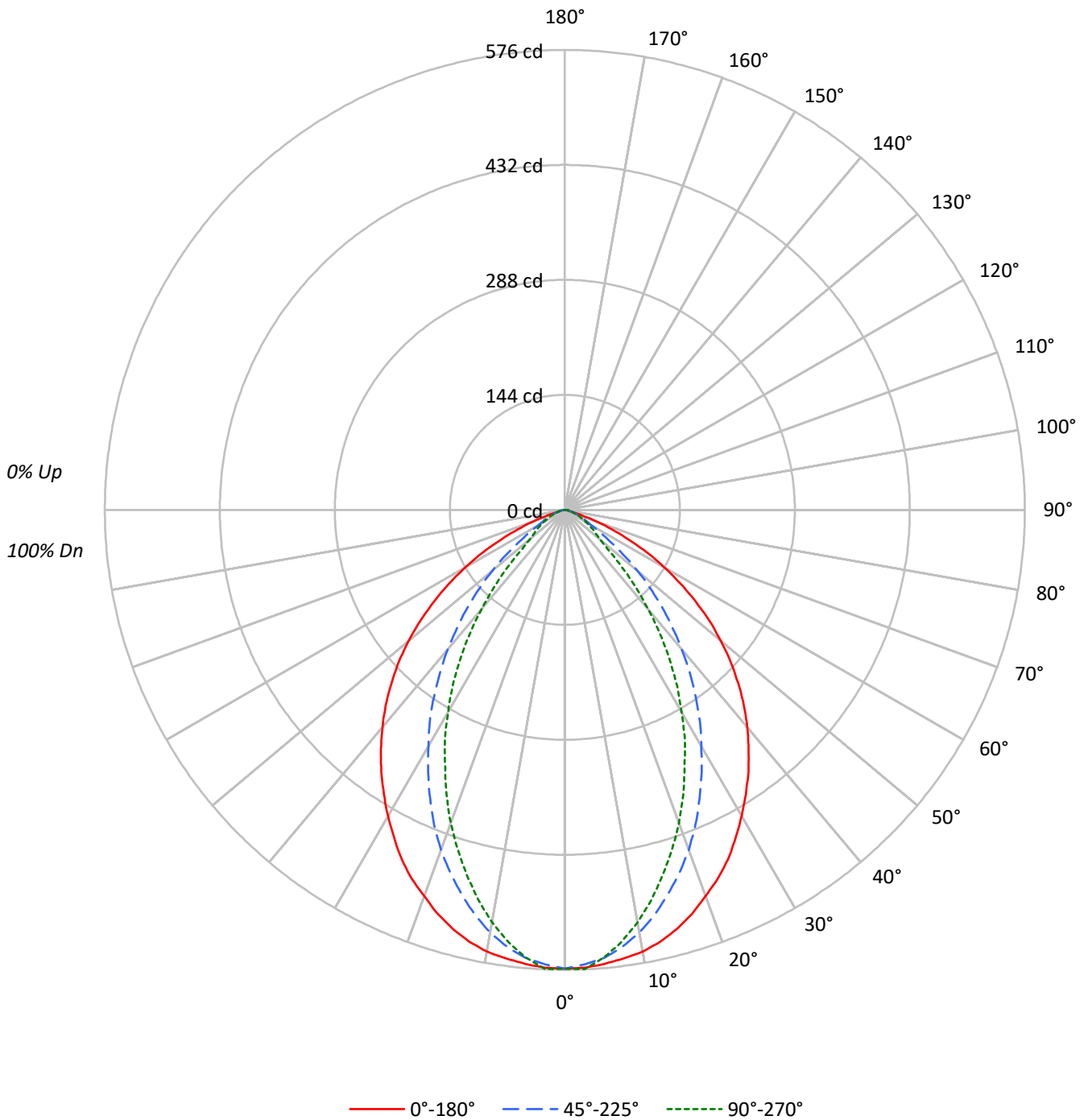
Lumens per Lamp: N/A
Luminaire Lumens: 847.4 lumens
Efficiency: N/A
Efficacy: 32.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.87 / 1.02
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90				
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71				
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				
5	84	74	66	61	82	73	66	60	71	65	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	48	47				
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43				
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39				
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4949	4949	4949
5°	4933	4870	4863
10°	4912	4700	4586
15°	4843	4445	4221
20°	4718	4154	3828
25°	4591	3792	3368
30°	4403	3397	2905
35°	4212	3003	2400
40°	3995	2557	1820
45°	3736	2090	1223
50°	3416	1583	760
55°	3001	1045	644
60°	2482	641	530
65°	1797	495	428
70°	979	368	327
75°	216	269	296
80°	159	198	243
85°	158	158	237

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3736 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	6.3
10°-20°	141.4	16.7
20°-30°	187.3	22.1
30°-40°	185.9	21.9
40°-50°	143.1	16.9
50°-60°	85.3	10.1
60°-70°	38.8	4.6
70°-80°	10.0	1.2
80°-90°	2.2	0.3
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°	382.0	45.1
0°-40°	568.0	67.0
0°-60°	796.3	94.0
0°-90°	847.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	575	575	575	575	575	
5°	571	572	563	563	563	54
15°	543	529	499	482	474	153
25°	483	448	399	366	354	222
35°	401	350	286	242	228	250
45°	307	247	172	120	100	236
55°	200	142	70	44	43	178
65°	88	53	24	21	21	89
75°	6	8	8	9	9	14
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	574.7	574.7	574.7	574.7	574.7
2.5°	573.9	574.7	569.9	573.9	575.5
5°	570.7	571.5	563.4	563.4	562.6
7.5°	566.6	565.0	552.1	547.2	545.6
10°	561.8	556.1	537.5	527.8	524.5
12.5°	553.7	544.8	519.7	505.9	500.2
15°	543.2	529.4	498.6	481.6	473.5
17.5°	530.2	513.2	476.8	454.9	446.0
20°	514.8	492.2	453.3	425.8	417.7
22.5°	500.2	471.9	427.4	395.8	386.9
25°	483.2	448.4	399.1	365.9	354.5
27.5°	463.0	425.8	370.7	336.7	325.4
30°	442.8	401.5	341.6	306.0	292.2
32.5°	421.7	376.4	314.9	274.4	261.5
35°	400.7	350.5	285.7	242.0	228.3
37.5°	378.0	324.6	256.6	211.3	195.9
40°	355.4	299.5	227.5	181.3	161.9
42.5°	331.9	273.6	199.1	150.6	131.1
45°	306.8	246.9	171.6	119.8	100.4
47.5°	281.7	221.8	144.1	89.9	72.0
50°	255.0	195.1	118.2	65.6	56.7
52.5°	228.3	169.2	92.3	51.0	48.6
55°	199.9	142.5	69.6	43.7	42.9
57.5°	170.8	118.2	50.2	38.0	36.4
60°	144.1	95.5	37.2	32.4	30.8
62.5°	116.6	72.0	30.8	26.7	25.1
65°	88.2	52.6	24.3	21.0	21.0
67.5°	63.9	35.6	19.4	17.0	16.2
70°	38.9	21.9	14.6	13.8	13.0
72.5°	19.4	13.0	11.3	10.5	10.5
75°	6.5	8.1	8.1	8.9	8.9
77.5°	4.9	5.7	5.7	6.5	6.5
80°	3.2	4.0	4.0	4.9	4.9
82.5°	2.4	2.4	3.2	3.2	4.0
85°	1.6	1.6	1.6	2.4	2.4
87.5°	0.8	0.8	0.8	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)