

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: P1060594

Luminaire Tested: S124RDR-S795D930-X4F0-XX-UDD-WVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060594
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-S795D930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

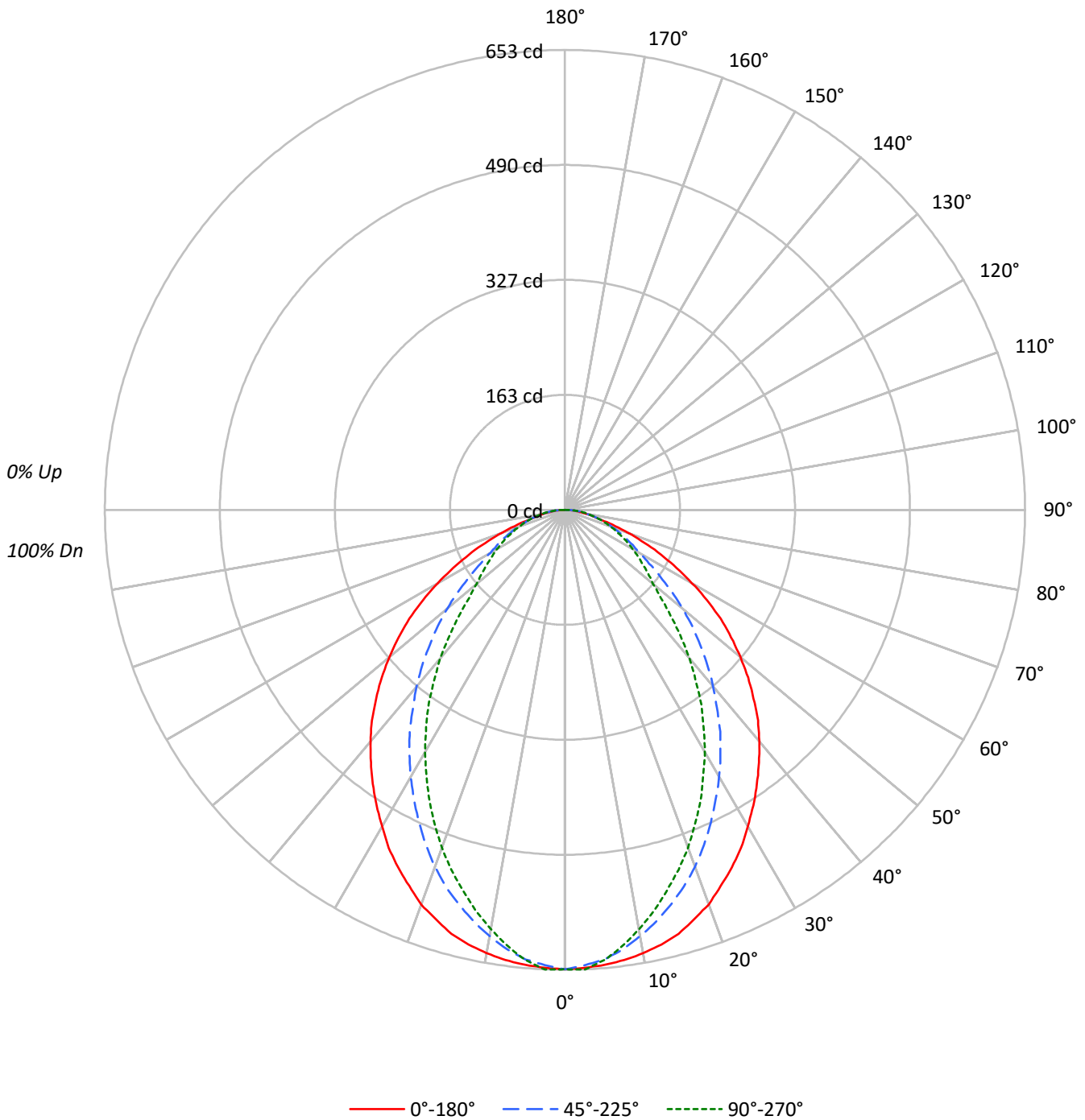
Lumens per Lamp: N/A
Luminaire Lumens: 1257.8 lumens
Efficiency: N/A
Efficacy: 48.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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				100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	82	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5617	5617	5617
5°	5606	5539	5546
10°	5590	5375	5288
15°	5556	5172	4988
20°	5464	4945	4678
25°	5324	4654	4326
30°	5160	4352	3948
35°	4995	4037	3546
40°	4825	3679	3094
45°	4612	3304	2585
50°	4354	2916	2188
55°	4051	2474	2025
60°	3591	2099	1913
65°	3060	1936	1811
70°	2392	1795	1717
75°	1634	1657	1657
80°	1408	1557	1597
85°	1215	1512	1670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4612 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	4.8
10°-20°	164.8	13.1
20°-30°	228.8	18.2
30°-40°	245.3	19.5
40°-50°	217.3	17.3
50°-60°	163.7	13.0
60°-70°	106.0	8.4
70°-80°	54.4	4.3
80°-90°	16.7	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°	454.3	36.1
0°-40°	699.6	55.6
0°-60°	1080.6	85.9
0°-90°	1257.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1257.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	648	649	641	642	642	62
15°	623	609	580	566	560	175
25°	560	530	490	464	455	258
35°	475	432	384	350	337	297
45°	379	330	271	229	212	292
55°	270	225	165	139	135	240
65°	150	121	95	90	89	149
75°	49	51	50	50	50	58
85°	12	13	15	17	17	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	652.3	652.3	652.3	652.3	652.3
2.5°	650.8	653.1	646.9	651.5	653.1
5°	648.5	649.2	640.8	641.6	641.6
7.5°	644.6	643.1	629.3	625.5	624.7
10°	639.3	634.7	614.7	607.1	604.8
12.5°	632.4	623.9	598.6	587.9	583.3
15°	623.2	609.4	580.2	565.7	559.5
17.5°	609.4	591.7	561.1	542.7	535.8
20°	596.3	572.6	539.6	516.6	510.5
22.5°	577.9	552.7	515.1	490.6	482.9
25°	560.3	530.4	489.8	463.7	455.3
27.5°	541.2	507.4	463.7	436.1	425.4
30°	518.9	482.9	437.7	408.5	397.1
32.5°	497.5	459.1	410.8	378.7	366.4
35°	475.2	432.3	384.0	349.5	337.3
37.5°	452.2	407.0	354.1	320.4	304.3
40°	429.2	381.7	327.3	289.0	275.2
42.5°	405.5	355.7	299.7	259.8	242.2
45°	378.7	329.6	271.3	229.2	212.3
47.5°	352.6	304.3	245.3	199.3	184.0
50°	325.0	277.5	217.7	173.2	163.3
52.5°	297.4	249.9	190.9	153.3	148.7
55°	269.8	224.6	164.8	138.7	134.9
57.5°	239.1	198.5	141.8	125.7	122.6
60°	208.5	170.2	121.9	113.4	111.1
62.5°	178.6	145.6	108.1	101.2	99.6
65°	150.2	121.1	95.0	89.7	88.9
67.5°	122.6	99.6	82.8	79.7	78.2
70°	95.0	79.7	71.3	69.8	68.2
72.5°	70.5	64.4	60.6	59.8	59.0
75°	49.1	51.4	49.8	49.8	49.8
77.5°	39.1	39.9	40.6	41.4	40.6
80°	28.4	30.7	31.4	33.0	32.2
82.5°	19.9	21.5	23.8	24.5	25.3
85°	12.3	13.0	15.3	16.9	16.9
87.5°	5.4	6.1	7.7	9.2	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)