

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: P1060615

Luminaire Tested: S124RDR-S795D950-X4F0-XX-UDD-BVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-39)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S795D950-X4F0-XX-UDD-BVL-B
Description: DEFINE 4 BLACK REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

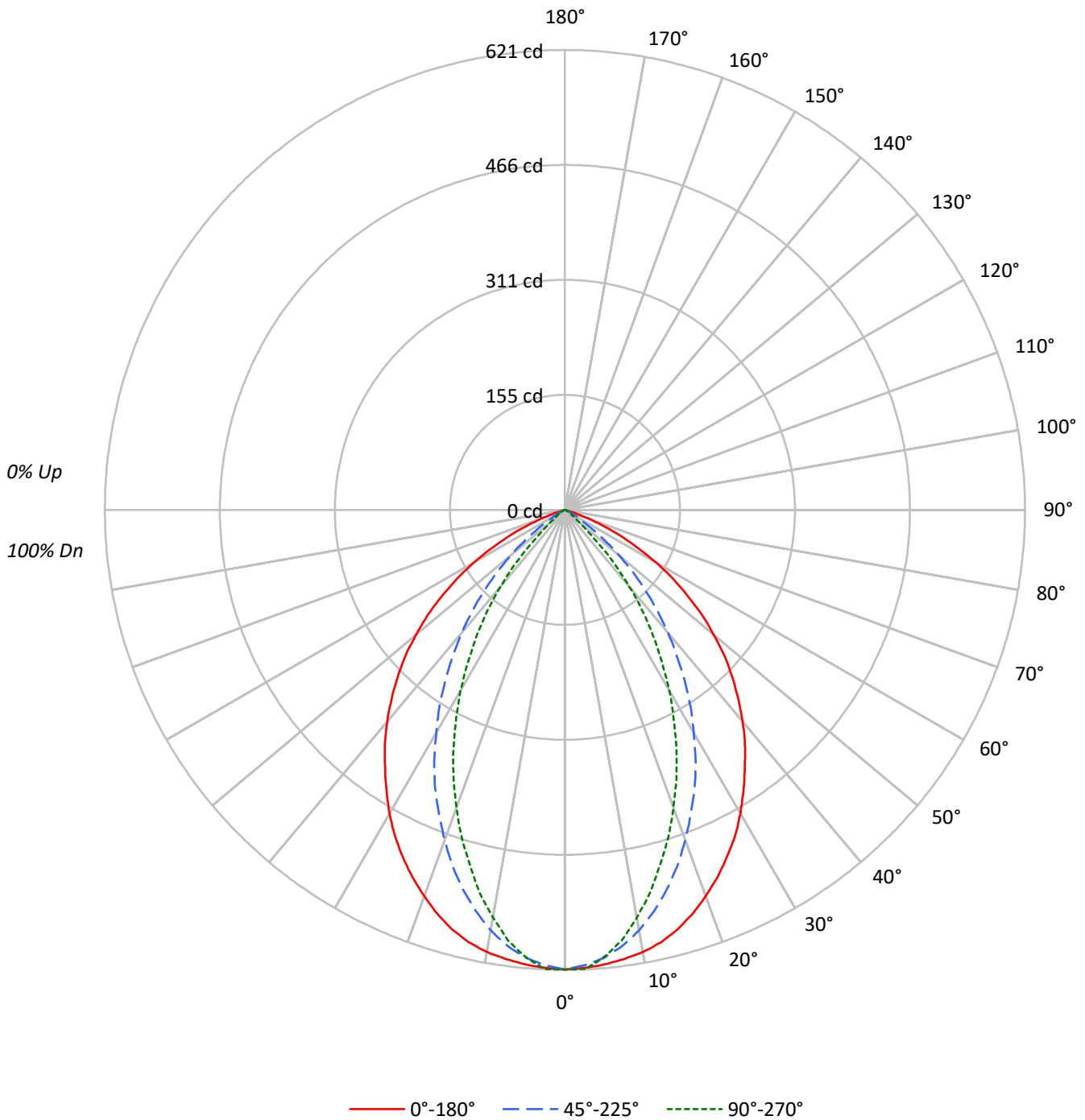
Lumens per Lamp: N/A
Luminaire Lumens: 810.5 lumens
Efficiency: N/A
Efficacy: 31.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 0.83 / 0.98
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5345	5345	5345
5°	5326	5249	5241
10°	5301	5043	4886
15°	5229	4734	4422
20°	5088	4348	3920
25°	4917	3937	3383
30°	4709	3451	2800
35°	4450	2960	2178
40°	4194	2430	1522
45°	3888	1868	754
50°	3509	1262	252
55°	3030	647	176
60°	2425	233	124
65°	1663	128	55
70°	745	68	45
75°	0	30	30
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3888 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	7.1
10°-20°	150.2	18.5
20°-30°	194.5	24.0
30°-40°	184.8	22.8
40°-50°	130.9	16.1
50°-60°	67.2	8.3
60°-70°	23.5	2.9
70°-80°	2.0	0.3
80°-90°	0.0	0.0
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°	402.1	49.6
0°-40°	586.9	72.4
0°-60°	784.9	96.8
0°-90°	810.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	810.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	621	621	621	621	621	
5°	616	617	607	607	606	58
15°	587	569	531	506	496	165
25°	518	477	414	370	356	238
35°	423	362	282	227	207	265
45°	319	246	153	88	62	246
55°	202	133	43	13	12	180
65°	82	40	6	4	3	81
75°	0	1	1	1	1	7
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	620.7	620.7	620.7	620.7	620.7
2.5°	618.9	620.7	615.3	619.8	620.7
5°	616.2	617.1	607.2	607.2	606.3
7.5°	611.7	609.9	593.8	587.5	586.6
10°	606.3	600.0	576.7	563.3	558.8
12.5°	598.2	586.6	555.2	535.5	530.1
15°	586.6	568.6	531.0	505.9	496.0
17.5°	572.2	548.9	504.1	473.6	463.7
20°	555.2	525.6	474.5	440.4	427.8
22.5°	537.2	503.2	444.0	405.4	392.8
25°	517.5	477.2	414.4	370.4	356.1
27.5°	496.9	449.4	382.1	336.3	317.5
30°	473.6	421.5	347.1	299.6	281.6
32.5°	448.5	391.1	315.7	264.6	243.1
35°	423.3	361.5	281.6	226.9	207.2
37.5°	399.1	333.7	247.5	190.1	171.3
40°	373.1	303.2	216.2	157.0	135.4
42.5°	346.2	273.6	183.9	122.9	99.6
45°	319.3	245.8	153.4	87.9	61.9
47.5°	292.4	216.2	123.8	55.6	33.2
50°	261.9	187.5	94.2	29.6	18.8
52.5°	233.2	160.5	67.3	17.0	14.4
55°	201.8	132.7	43.1	12.6	11.7
57.5°	172.2	105.8	24.2	9.9	9.0
60°	140.8	81.6	13.5	8.1	7.2
62.5°	109.4	59.2	9.0	5.4	4.5
65°	81.6	39.5	6.3	3.6	2.7
67.5°	53.8	22.4	4.5	1.8	1.8
70°	29.6	10.8	2.7	1.8	1.8
72.5°	10.8	3.6	1.8	0.9	0.9
75°	0.0	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.9
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)