

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: P1060547

Luminaire Tested: S124RDR-S795D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060547
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-S795D830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

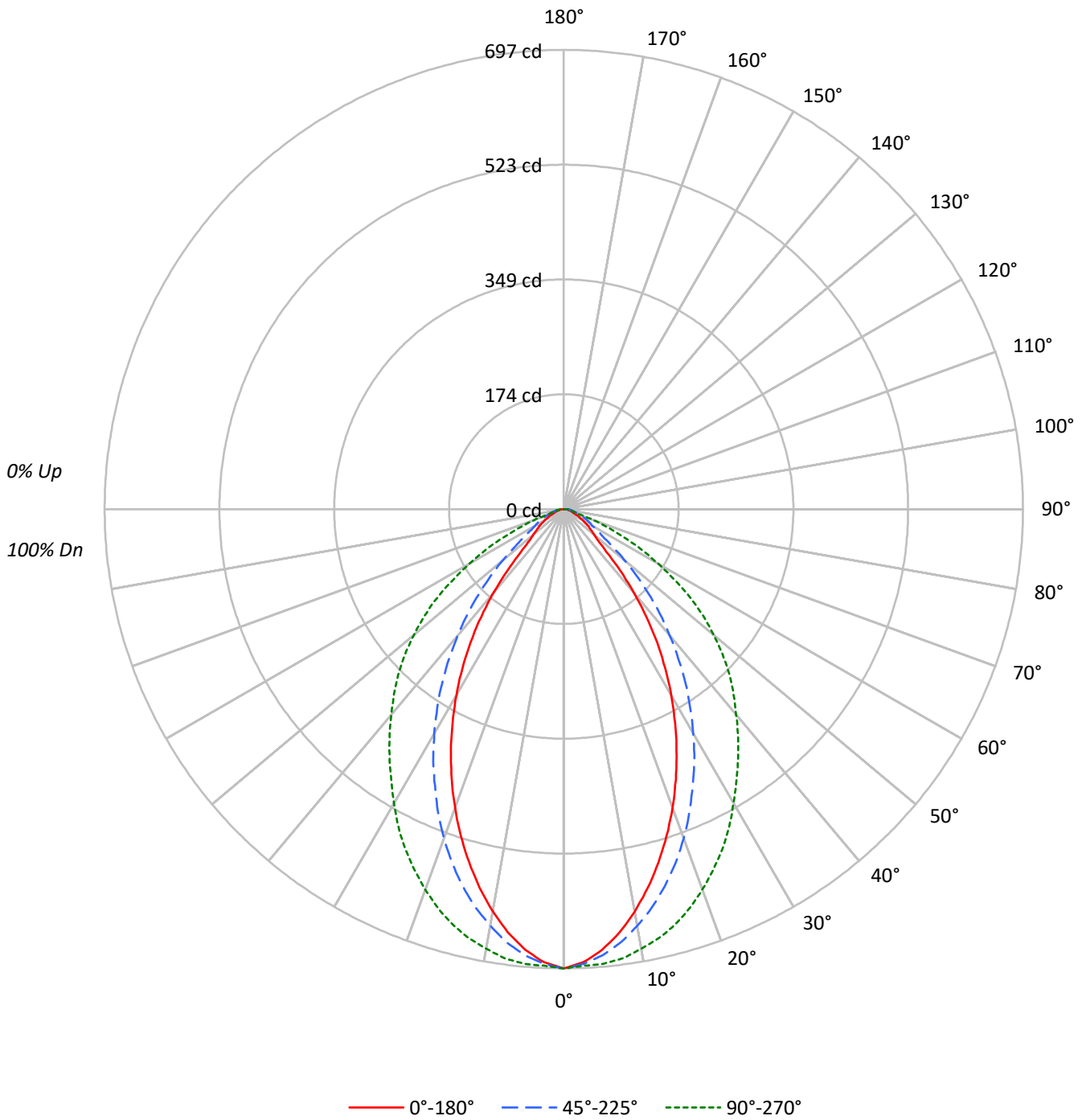
Lumens per Lamp: N/A
Luminaire Lumens: 980.3 lumens
Efficiency: N/A
Efficacy: 38.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	47	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°	6003	6003	6003
5°	5804	5873	5988
10°	5421	5615	5925
15°	4950	5282	5820
20°	4422	4877	5632
25°	3851	4399	5410
30°	3245	3907	5124
35°	2592	3385	4848
40°	1865	2811	4576
45°	1123	2214	4332
50°	808	1604	3980
55°	679	1078	3528
60°	549	856	2842
65°	434	776	2042
70°	380	647	1095
75°	353	589	532
80°	352	615	486
85°	524	879	613

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4332 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	6.5
10°-20°	167.7	17.1
20°-30°	217.6	22.2
30°-40°	209.1	21.3
40°-50°	155.2	15.8
50°-60°	95.0	9.7
60°-70°	46.2	4.7
70°-80°	17.6	1.8
80°-90°	7.9	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°	449.3	45.8
0°-40°	658.4	67.2
0°-60°	908.6	92.7
0°-90°	980.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	980.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	671	681	679	686	693	62
15°	555	571	592	628	653	155
25°	405	426	463	522	569	185
35°	247	269	322	398	461	153
45°	92	115	182	278	356	77
55°	45	47	72	162	235	41
65°	21	23	38	60	100	22
75°	11	17	18	16	16	11
85°	5	9	9	8	6	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697.1	697.1	697.1	697.1	697.1
2.5°	688.3	696.2	690.9	692.7	693.6
5°	671.4	681.2	679.4	685.6	692.7
7.5°	648.3	659.9	663.4	675.8	687.4
10°	620.0	634.1	642.1	662.5	677.6
12.5°	588.9	604.0	619.1	646.6	667.0
15°	555.2	571.2	592.5	627.9	652.8
17.5°	519.7	537.5	563.2	605.8	635.0
20°	482.5	501.1	532.2	579.2	614.6
22.5°	444.3	463.9	498.4	550.8	592.5
25°	405.3	425.7	463.0	522.4	569.4
27.5°	365.4	386.7	429.3	492.2	543.7
30°	326.4	346.8	392.9	461.2	515.3
32.5°	286.5	307.8	357.4	429.3	487.8
35°	246.6	268.7	322.0	398.2	461.2
37.5°	205.8	229.7	285.6	368.1	434.6
40°	165.9	188.9	250.1	337.0	407.1
42.5°	126.8	151.7	216.4	306.0	381.4
45°	92.2	115.3	181.8	277.6	355.7
47.5°	69.2	83.4	149.9	251.0	327.3
50°	60.3	63.0	119.7	221.7	297.1
52.5°	52.3	54.1	93.1	189.8	267.0
55°	45.2	47.0	71.8	162.3	235.0
57.5°	38.1	39.9	57.6	135.7	198.7
60°	31.9	33.7	49.7	108.2	165.0
62.5°	26.6	27.5	44.3	82.5	132.2
65°	21.3	23.1	38.1	60.3	100.2
67.5°	17.7	19.5	31.0	41.7	70.1
70°	15.1	19.5	25.7	29.3	43.5
72.5°	12.4	17.7	21.3	20.4	20.4
75°	10.6	16.9	17.7	16.0	16.0
77.5°	8.9	15.1	14.2	13.3	12.4
80°	7.1	12.4	12.4	10.6	9.8
82.5°	6.2	9.8	9.8	9.8	8.0
85°	5.3	8.9	8.9	8.0	6.2
87.5°	3.5	7.1	8.0	7.1	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)