

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: P1060466

Luminaire Tested: S124RDR-S575D830-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060466
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-S575D830-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

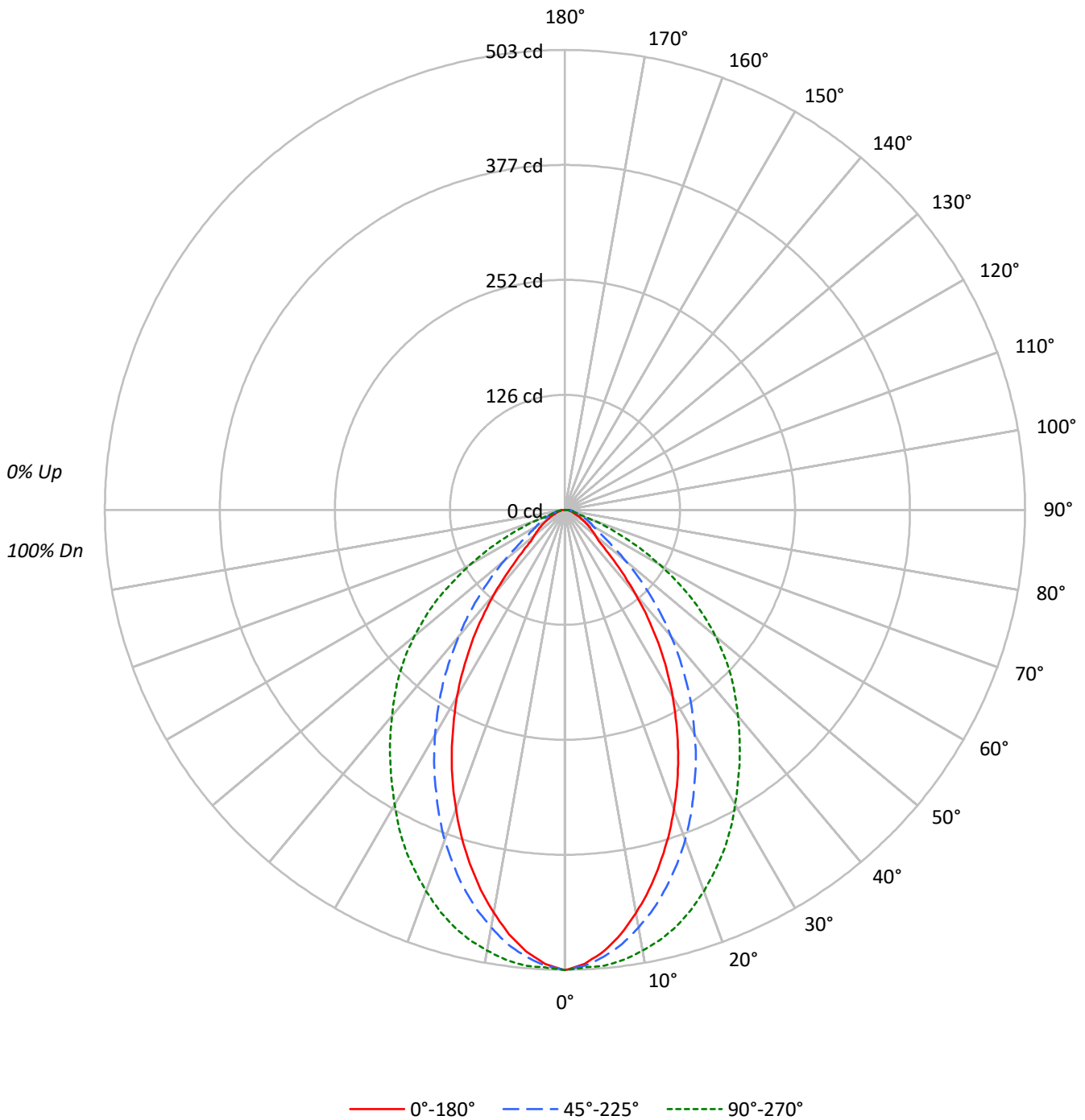
Lumens per Lamp: N/A
Luminaire Lumens: 707.9 lumens
Efficiency: N/A
Efficacy: 36.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
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	46	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°	4335	4335	4335
5°	4191	4241	4324
10°	3915	4055	4278
15°	3574	3814	4202
20°	3193	3522	4068
25°	2781	3176	3907
30°	2344	2821	3700
35°	1872	2444	3502
40°	1347	2030	3305
45°	811	1599	3127
50°	584	1159	2875
55°	491	779	2548
60°	398	618	2051
65°	314	560	1475
70°	274	468	791
75°	256	426	383
80°	253	446	347
85°	375	632	445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3127 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	6.5
10°-20°	121.1	17.1
20°-30°	157.1	22.2
30°-40°	151.0	21.3
40°-50°	112.1	15.8
50°-60°	68.6	9.7
60°-70°	33.3	4.7
70°-80°	12.7	1.8
80°-90°	5.7	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°	324.4	45.8
0°-40°	475.4	67.2
0°-60°	656.1	92.7
0°-90°	707.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	707.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	503	503	503	503	503	
5°	485	492	491	495	500	45
15°	401	412	428	454	471	112
25°	293	307	334	377	411	134
35°	178	194	232	288	333	110
45°	67	83	131	200	257	55
55°	33	34	52	117	170	29
65°	15	17	28	44	72	16
75°	8	12	13	12	12	8
85°	4	6	6	6	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	503.4	503.4	503.4	503.4	503.4
2.5°	497.0	502.8	498.9	500.2	500.9
5°	484.8	491.9	490.6	495.1	500.2
7.5°	468.2	476.5	479.1	488.0	496.4
10°	447.7	457.9	463.7	478.4	489.3
12.5°	425.3	436.2	447.1	466.9	481.6
15°	400.9	412.5	427.8	453.5	471.4
17.5°	375.3	388.1	406.7	437.5	458.6
20°	348.4	361.9	384.3	418.2	443.9
22.5°	320.9	335.0	360.0	397.7	427.8
25°	292.7	307.4	334.3	377.2	411.2
27.5°	263.9	279.3	310.0	355.5	392.6
30°	235.7	250.4	283.7	333.1	372.1
32.5°	206.9	222.2	258.1	310.0	352.3
35°	178.1	194.1	232.5	287.6	333.1
37.5°	148.6	165.9	206.2	265.8	313.8
40°	119.8	136.4	180.6	243.4	294.0
42.5°	91.6	109.5	156.3	221.0	275.4
45°	66.6	83.3	131.3	200.5	256.8
47.5°	50.0	60.2	108.2	181.3	236.3
50°	43.6	45.5	86.5	160.1	214.6
52.5°	37.8	39.1	67.3	137.1	192.8
55°	32.7	33.9	51.9	117.2	169.7
57.5°	27.5	28.8	41.6	98.0	143.5
60°	23.1	24.3	35.9	78.1	119.1
62.5°	19.2	19.9	32.0	59.6	95.4
65°	15.4	16.7	27.5	43.6	72.4
67.5°	12.8	14.1	22.4	30.1	50.6
70°	10.9	14.1	18.6	21.1	31.4
72.5°	9.0	12.8	15.4	14.7	14.7
75°	7.7	12.2	12.8	11.5	11.5
77.5°	6.4	10.9	10.2	9.6	9.0
80°	5.1	9.0	9.0	7.7	7.0
82.5°	4.5	7.0	7.0	7.0	5.8
85°	3.8	6.4	6.4	5.8	4.5
87.5°	2.6	5.1	5.8	5.1	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)