

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: P1060475

Luminaire Tested: S124RDR-S575D835-X4F0-XX-UDD-SVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060475
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-S575D835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

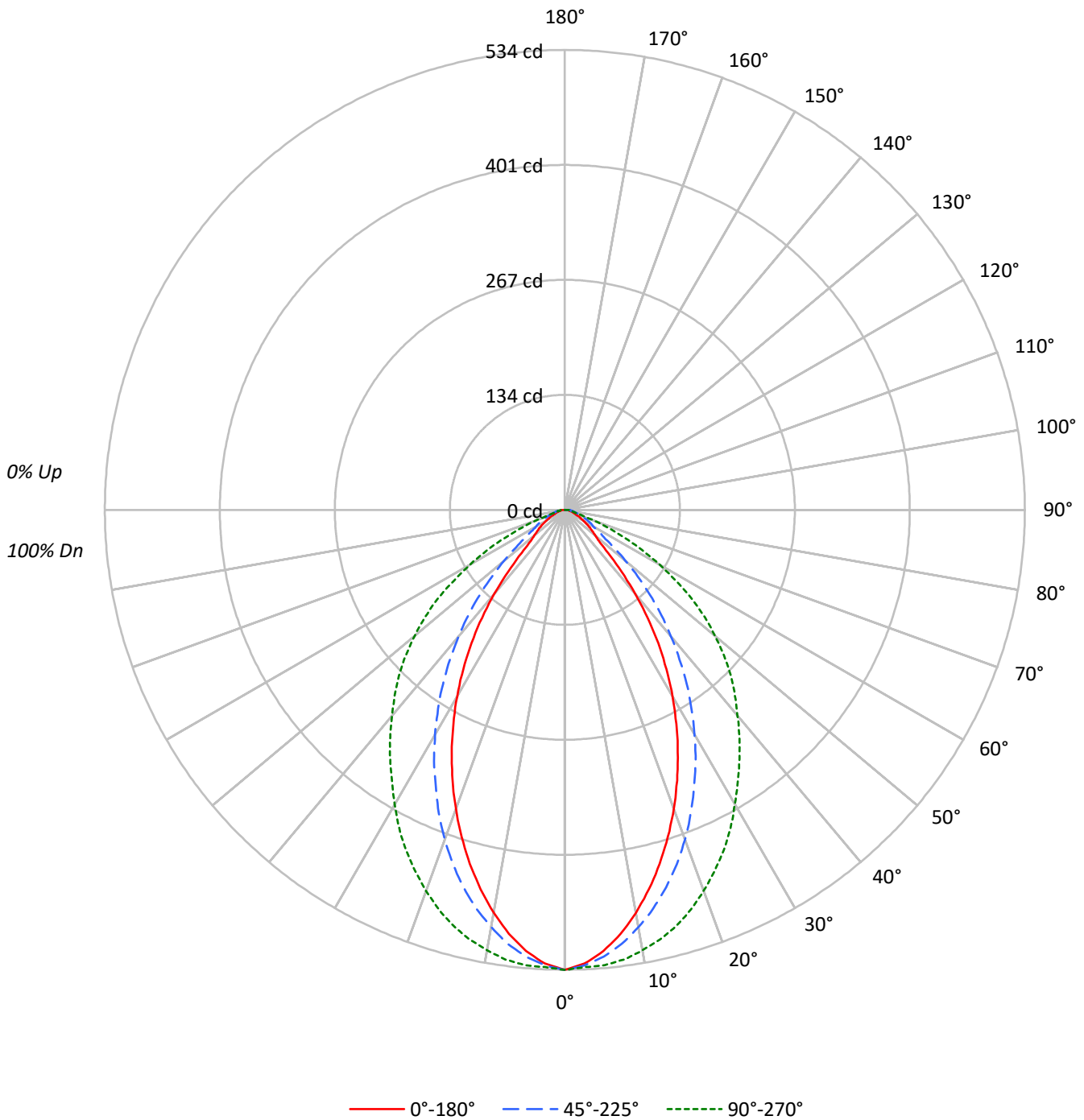
Lumens per Lamp: N/A
Luminaire Lumens: 751.0 lumens
Efficiency: N/A
Efficacy: 38.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1060475

CATALOG NUMBER: S124RDR-S575D835-X4F0-XX-UDD-SVL-S

Luminous Intensity Polar Plot





TEST NUMBER: P1060475

CATALOG NUMBER: S124RDR-S575D835-X4F0-XX-UDD-SVL-S

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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	67	75	70	66	73	68	65	63
5	84	73	66	61	82	72	65	60	70	64	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	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4599	4599	4599
5°	4446	4499	4587
10°	4153	4302	4540
15°	3792	4046	4458
20°	3388	3736	4315
25°	2950	3370	4145
30°	2487	2993	3926
35°	1986	2593	3715
40°	1429	2154	3506
45°	861	1696	3318
50°	619	1228	3049
55°	521	826	2704
60°	422	656	2177
65°	332	595	1565
70°	292	496	838
75°	273	452	406
80°	268	471	372
85°	405	672	474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3318 cd/sqm



TEST NUMBER: P1060475

CATALOG NUMBER: S124RDR-S575D835-X4F0-XX-UDD-SVL-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	6.5
10°-20°	128.5	17.1
20°-30°	166.7	22.2
30°-40°	160.2	21.3
40°-50°	118.9	15.8
50°-60°	72.8	9.7
60°-70°	35.4	4.7
70°-80°	13.5	1.8
80°-90°	6.1	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°	344.2	45.8
0°-40°	504.4	67.2
0°-60°	696.1	92.7
0°-90°	751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	514	522	520	525	531	48
15°	425	438	454	481	500	119
25°	310	326	355	400	436	142
35°	189	206	247	305	353	117
45°	71	88	139	213	272	59
55°	35	36	55	124	180	31
65°	16	18	29	46	77	17
75°	8	13	14	12	12	9
85°	4	7	7	6	5	4
90°	0	0	0	0	0	



TEST NUMBER: P1060475

CATALOG NUMBER: S124RDR-S575D835-X4F0-XX-UDD-SVL-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	534.1	534.1	534.1	534.1	534.1
2.5°	527.3	533.4	529.4	530.7	531.4
5°	514.4	521.9	520.5	525.3	530.7
7.5°	496.7	505.6	508.3	517.8	526.6
10°	475.0	485.9	492.0	507.6	519.2
12.5°	451.2	462.8	474.3	495.4	511.0
15°	425.4	437.6	453.9	481.1	500.1
17.5°	398.2	411.8	431.5	464.1	486.5
20°	369.7	383.9	407.7	443.7	470.9
22.5°	340.4	355.4	381.9	422.0	453.9
25°	310.5	326.2	354.7	400.2	436.3
27.5°	280.0	296.3	328.9	377.1	416.6
30°	250.1	265.7	301.0	353.4	394.8
32.5°	219.5	235.8	273.8	328.9	373.7
35°	188.9	205.9	246.7	305.1	353.4
37.5°	157.7	176.0	218.8	282.0	333.0
40°	127.1	144.7	191.6	258.2	311.9
42.5°	97.2	116.2	165.8	234.4	292.2
45°	70.7	88.3	139.3	212.7	272.5
47.5°	53.0	63.9	114.8	192.3	250.7
50°	46.2	48.2	91.7	169.9	227.6
52.5°	40.1	41.5	71.4	145.4	204.5
55°	34.7	36.0	55.0	124.4	180.1
57.5°	29.2	30.6	44.2	104.0	152.2
60°	24.5	25.8	38.1	82.9	126.4
62.5°	20.4	21.1	34.0	63.2	101.2
65°	16.3	17.7	29.2	46.2	76.8
67.5°	13.6	14.9	23.8	31.9	53.7
70°	11.6	14.9	19.7	22.4	33.3
72.5°	9.5	13.6	16.3	15.6	15.6
75°	8.2	12.9	13.6	12.2	12.2
77.5°	6.8	11.6	10.9	10.2	9.5
80°	5.4	9.5	9.5	8.2	7.5
82.5°	4.8	7.5	7.5	7.5	6.1
85°	4.1	6.8	6.8	6.1	4.8
87.5°	2.7	5.4	6.1	5.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)