

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: P1060514

Luminaire Tested: S124RDR-S575D930-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-76)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S575D930-X4F0-XX-UDD-WVL-S
Description: DEFINE 4 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

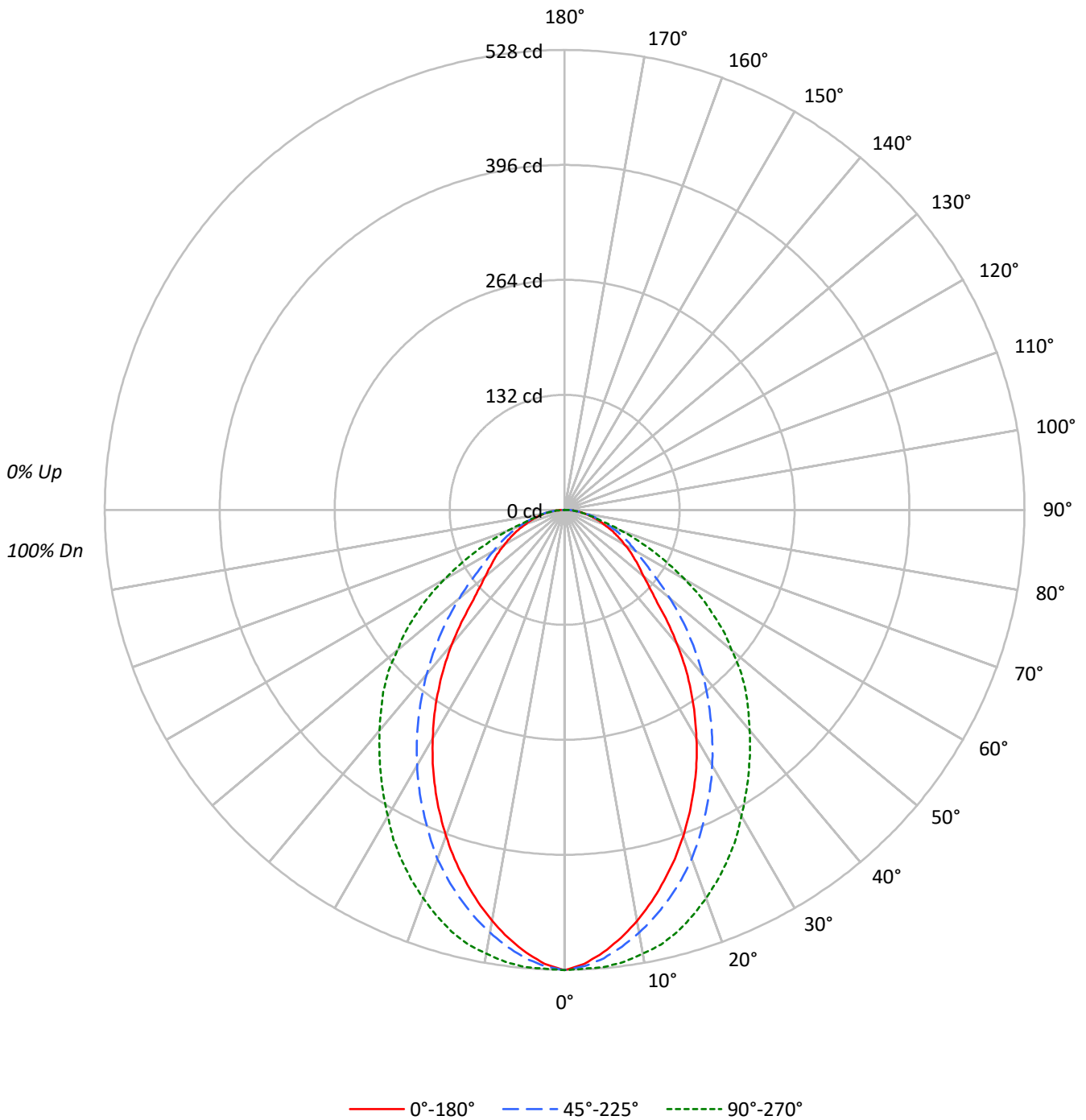
Lumens per Lamp: N/A
Luminaire Lumens: 961.9 lumens
Efficiency: N/A
Efficacy: 49.1 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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: P1060514

CATALOG NUMBER: S124RDR-S575D930-X4F0-XX-UDD-WVL-S

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				
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87				
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75				
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65				
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57				
5	80	69	60	54	78	68	60	54	65	59	54	64	58	53	62	57	52	50				
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45				
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41				
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37				
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34				
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4550	4550	4550
5°	4409	4466	4553
10°	4189	4310	4523
15°	3931	4123	4468
20°	3649	3908	4349
25°	3342	3642	4210
30°	3012	3370	4037
35°	2654	3074	3872
40°	2259	2771	3716
45°	1834	2448	3582
50°	1587	2107	3353
55°	1471	1788	3109
60°	1374	1612	2728
65°	1286	1512	2268
70°	1198	1395	1715
75°	1141	1291	1234
80°	1071	1180	1041
85°	988	1097	820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3582 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	5.1
10°-20°	131.1	13.6
20°-30°	179.0	18.6
30°-40°	187.6	19.5
40°-50°	162.4	16.9
50°-60°	122.0	12.7
60°-70°	78.7	8.2
70°-80°	40.3	4.2
80°-90°	12.0	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°	358.9	37.3
0°-40°	546.5	56.8
0°-60°	830.9	86.4
0°-90°	961.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	961.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	510	518	517	521	527	48
15°	441	452	462	484	501	124
25°	352	365	383	413	443	161
35°	252	267	292	331	368	157
45°	151	166	201	250	294	119
55°	98	101	119	170	207	88
65°	63	64	74	90	111	63
75°	34	38	39	38	37	36
85°	10	12	11	10	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	528.4	528.4	528.4	528.4	528.4
2.5°	521.7	528.4	524.5	525.6	527.3
5°	510.1	517.8	516.7	520.6	526.7
7.5°	495.7	504.0	505.7	514.5	523.4
10°	479.1	488.5	492.9	506.2	517.3
12.5°	460.8	470.8	478.5	495.1	511.2
15°	440.9	451.9	462.5	483.5	501.2
17.5°	420.4	431.4	445.3	468.5	488.5
20°	398.2	410.4	426.5	450.8	474.6
22.5°	375.5	388.2	405.4	432.0	459.7
25°	351.7	365.0	383.3	413.2	443.1
27.5°	327.9	341.2	361.7	393.2	425.9
30°	302.9	316.8	338.9	373.3	406.0
32.5°	278.0	293.0	315.7	352.2	387.1
35°	252.5	266.9	292.4	331.2	368.3
37.5°	227.1	242.0	269.2	310.7	349.5
40°	201.0	216.6	246.5	290.2	330.6
42.5°	175.0	191.6	223.2	269.2	311.8
45°	150.6	166.2	201.0	250.3	294.1
47.5°	132.4	142.9	178.9	232.1	274.1
50°	118.5	124.1	157.3	212.1	250.3
52.5°	108.0	111.9	137.4	190.5	230.9
55°	98.0	101.4	119.1	170.0	207.1
57.5°	89.2	90.8	105.2	150.1	184.4
60°	79.8	81.4	93.6	128.5	158.4
62.5°	71.4	72.6	84.2	108.0	134.6
65°	63.1	64.2	74.2	89.7	111.3
67.5°	55.4	57.0	64.8	73.1	88.6
70°	47.6	51.0	55.4	59.3	68.1
72.5°	41.0	44.3	46.5	47.6	48.2
75°	34.3	38.2	38.8	38.2	37.1
77.5°	27.7	31.0	31.0	29.9	28.8
80°	21.6	24.4	23.8	22.7	21.0
82.5°	16.1	17.7	17.2	16.1	14.4
85°	10.0	11.6	11.1	10.5	8.3
87.5°	5.0	6.6	6.1	5.5	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)