

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: P1060541

Luminaire Tested: S124RDR-S575D950-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060541
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-S575D950-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: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

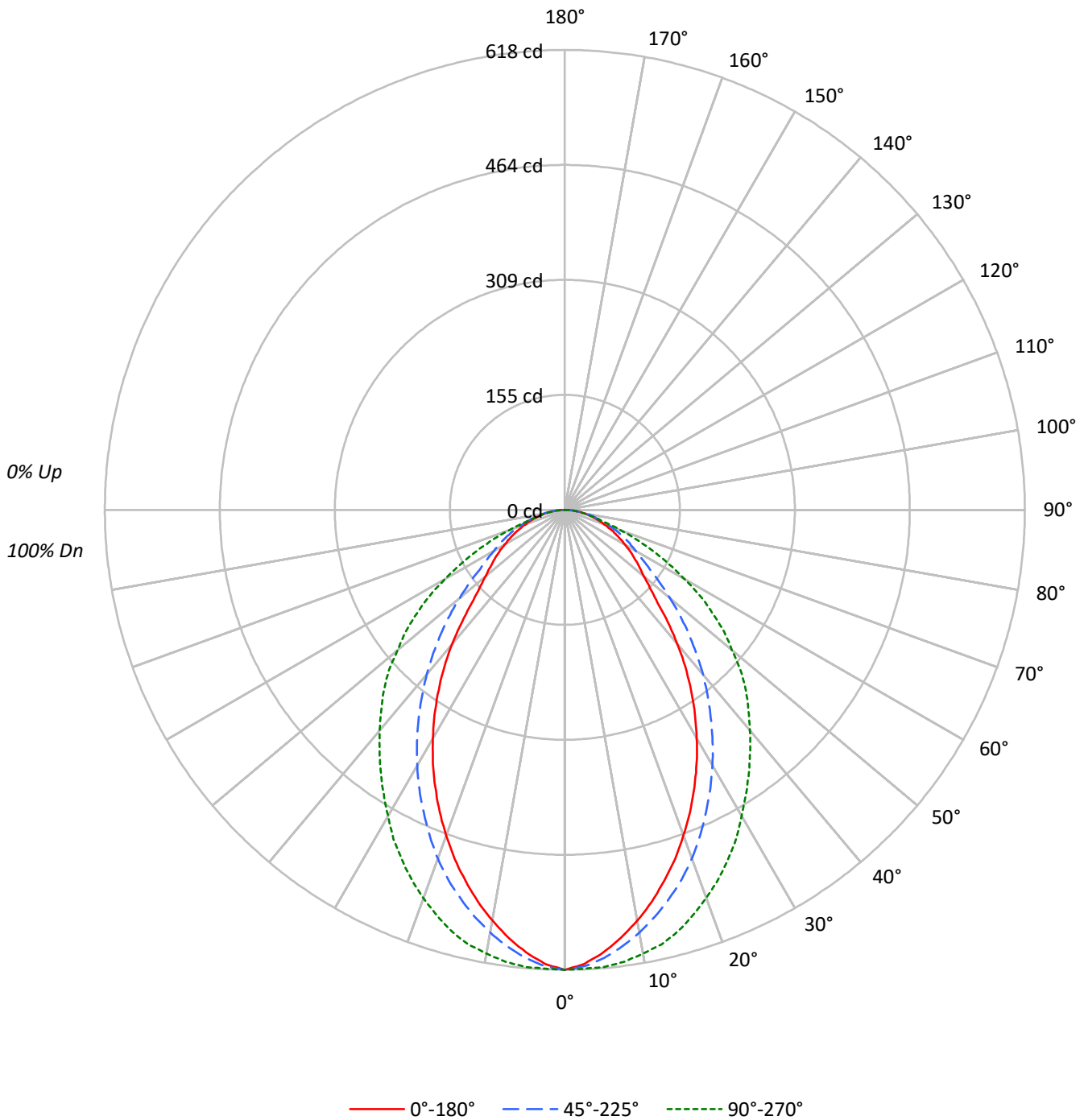
Lumens per Lamp: N/A
Luminaire Lumens: 1125.6 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.1
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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

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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				
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°	5323	5323	5323
5°	5160	5226	5327
10°	4902	5044	5293
15°	4599	4824	5229
20°	4270	4573	5090
25°	3910	4261	4925
30°	3525	3944	4723
35°	3106	3597	4531
40°	2644	3242	4349
45°	2147	2864	4190
50°	1858	2465	3924
55°	1722	2091	3639
60°	1607	1886	3191
65°	1506	1769	2655
70°	1402	1631	2007
75°	1337	1510	1444
80°	1255	1384	1220
85°	1156	1284	958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4190 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	5.1
10°-20°	153.4	13.6
20°-30°	209.5	18.6
30°-40°	219.5	19.5
40°-50°	190.0	16.9
50°-60°	142.7	12.7
60°-70°	92.0	8.2
70°-80°	47.2	4.2
80°-90°	14.1	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°	420.0	37.3
0°-40°	639.5	56.8
0°-60°	972.2	86.4
0°-90°	1125.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1125.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	597	606	605	609	616	56
15°	516	529	541	566	586	145
25°	412	427	448	484	518	189
35°	296	312	342	388	431	184
45°	176	194	235	293	344	139
55°	115	119	139	199	242	103
65°	74	75	87	105	130	73
75°	40	45	45	45	43	42
85°	12	14	13	12	10	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	618.2	618.2	618.2	618.2	618.2
2.5°	610.5	618.2	613.7	615.0	617.0
5°	596.9	605.9	604.6	609.2	616.3
7.5°	580.0	589.7	591.7	602.0	612.4
10°	560.6	571.6	576.8	592.3	605.3
12.5°	539.2	550.8	559.9	579.4	598.2
15°	515.9	528.8	541.1	565.8	586.5
17.5°	491.9	504.8	521.0	548.3	571.6
20°	466.0	480.2	499.0	527.5	555.4
22.5°	439.4	454.3	474.4	505.5	537.9
25°	411.5	427.1	448.5	483.5	518.4
27.5°	383.6	399.2	423.2	460.1	498.4
30°	354.5	370.7	396.6	436.8	475.0
32.5°	325.3	342.8	369.4	412.2	453.0
35°	295.5	312.4	342.2	387.5	431.0
37.5°	265.7	283.2	315.0	363.6	408.9
40°	235.2	253.4	288.4	339.6	386.9
42.5°	204.8	224.2	261.2	315.0	364.9
45°	176.3	194.4	235.2	292.9	344.1
47.5°	154.9	167.2	209.3	271.5	320.8
50°	138.7	145.2	184.0	248.2	292.9
52.5°	126.4	130.9	160.7	222.9	270.2
55°	114.7	118.6	139.3	199.0	242.4
57.5°	104.3	106.3	123.1	175.6	215.8
60°	93.3	95.3	109.5	150.3	185.3
62.5°	83.6	84.9	98.5	126.4	157.5
65°	73.9	75.2	86.8	105.0	130.3
67.5°	64.8	66.7	75.8	85.5	103.7
70°	55.7	59.6	64.8	69.3	79.7
72.5°	48.0	51.8	54.4	55.7	56.4
75°	40.2	44.7	45.4	44.7	43.4
77.5°	32.4	36.3	36.3	35.0	33.7
80°	25.3	28.5	27.9	26.6	24.6
82.5°	18.8	20.7	20.1	18.8	16.8
85°	11.7	13.6	13.0	12.3	9.7
87.5°	5.8	7.8	7.1	6.5	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)