

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: P1060539

Luminaire Tested: S124RDR-S575D950-X4F0-XX-UDD-SVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-74)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S575D950-X4F0-XX-UDD-SVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

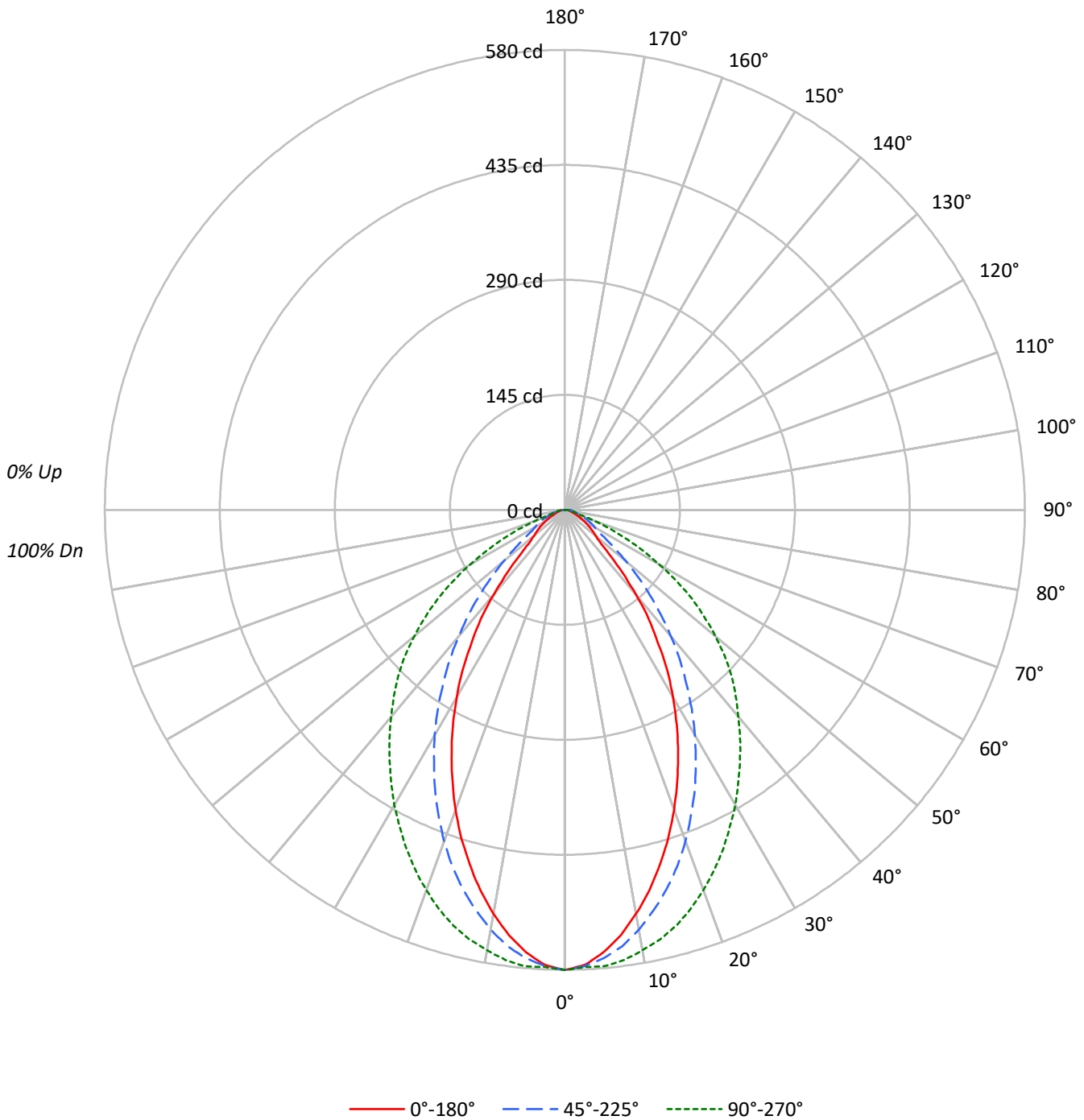
Lumens per Lamp: N/A
Luminaire Lumens: 821.4 lumens
Efficiency: N/A
Efficacy: 41.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 1.12 / 1.01
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

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	104	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	76	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	66	75	70	66	73	68	65	63				63
5	84	73	66	60	82	72	65	60	70	64	60	69	63	59	67	62	58	57				57
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51				51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47				47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43				43
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4997	4997	4997
5°	4842	4904	4994
10°	4524	4700	4932
15°	4128	4416	4838
20°	3690	4076	4676
25°	3210	3684	4485
30°	2708	3262	4275
35°	2154	2808	4048
40°	1567	2339	3826
45°	947	1847	3624
50°	678	1338	3318
55°	575	905	2931
60°	468	737	2368
65°	371	660	1703
70°	310	554	899
75°	279	519	452
80°	288	516	451
85°	385	771	514

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3624 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	6.5
10°-20°	140.0	17.0
20°-30°	181.6	22.1
30°-40°	174.8	21.3
40°-50°	130.0	15.8
50°-60°	80.0	9.7
60°-70°	39.3	4.8
70°-80°	15.3	1.9
80°-90°	7.0	0.9
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°	375.0	45.7
0°-40°	549.8	66.9
0°-60°	759.8	92.5
0°-90°	821.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	821.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	580	580	580	580	580	
5°	560	569	567	572	578	52
15°	463	478	495	525	543	129
25°	338	356	388	436	472	155
35°	205	224	267	334	385	128
45°	78	97	152	234	298	65
55°	38	40	60	138	195	34
65°	18	20	32	52	84	19
75°	8	15	16	14	14	9
85°	4	7	8	8	5	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	580.3	580.3	580.3	580.3	580.3
2.5°	574.5	581.0	575.8	576.4	577.1
5°	560.2	568.6	567.3	572.5	577.7
7.5°	540.8	550.5	555.0	565.4	572.5
10°	517.4	528.4	537.5	554.4	564.1
12.5°	491.5	504.4	517.4	540.1	555.0
15°	463.0	477.9	495.4	525.2	542.7
17.5°	433.8	448.7	471.4	505.7	527.8
20°	402.7	418.9	444.8	483.1	510.3
22.5°	370.2	387.7	416.3	459.7	492.1
25°	337.8	356.0	387.7	436.4	472.0
27.5°	305.4	322.9	357.3	411.7	450.6
30°	272.3	290.5	328.1	385.1	429.9
32.5°	240.6	257.4	297.6	359.9	407.2
35°	204.9	224.3	267.1	333.9	385.1
37.5°	174.4	191.9	238.0	308.0	363.1
40°	139.4	158.9	208.1	282.7	340.4
42.5°	107.0	126.4	179.6	257.4	319.0
45°	77.8	96.6	151.7	234.1	297.6
47.5°	59.0	70.0	124.5	211.4	273.6
50°	50.6	53.8	99.9	186.7	247.7
52.5°	44.7	46.0	77.8	162.1	221.7
55°	38.3	39.6	60.3	137.5	195.2
57.5°	32.4	33.1	48.6	114.1	166.6
60°	27.2	27.9	42.8	91.4	137.5
62.5°	22.7	23.3	38.3	70.7	109.6
65°	18.2	19.5	32.4	51.9	83.6
67.5°	14.9	17.5	27.2	36.3	58.4
70°	12.3	16.9	22.0	25.3	35.7
72.5°	10.4	15.6	18.8	18.2	17.5
75°	8.4	14.9	15.6	14.3	13.6
77.5°	7.1	13.0	13.0	11.7	11.0
80°	5.8	10.4	10.4	10.4	9.1
82.5°	5.2	8.4	9.1	9.1	7.1
85°	3.9	7.1	7.8	7.8	5.2
87.5°	2.6	6.5	7.1	6.5	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)